



DCA

DELTA
CONVEYANCE
DESIGN &
CONSTRUCTION
AUTHORITY

DELTA CONVEYANCE
**Final Draft
Engineering Project
Report Update -
Attachment A**

CENTRAL & EASTERN OPTIONS

November 2023

APPENDIX F - Preliminary Construction Information for EIR Air Quality and Traffic Analyses for the Central Corridor

This appendix provides preliminary construction information for the Central Corridor related to quantities of equipment and vehicle use, employee travel needs, and earthwork needed to develop air quality and traffic analyses in the EIR. The information is provided in the following attachments organized by project design capacity option:

- Attachment 1. Project Design Capacity for 6,000 cfs
- Attachment 2. Project Design Capacity for 7,500 cfs
- Attachment 3. Project Design Capacity for 3,000 cfs
- Attachment 4. Project Design Capacity for 4,500 cfs
- Attachment 5. Additional Information for Stockpile Information, Concrete Batch Production, and Power Demand

Each attachment includes workbooks which are organized along the conveyance alignment from the intakes to the Southern Complex, as follows:

- Access roads and park and ride lots for intakes and intake sites
- Access roads, railroad access, ring levee, and the Twin Cities Complex
- Access roads, levee improvements (if applicable), and tunnel shaft sites between Twin Cities Complex and Southern Complex
- Access roads, Southern Complex on Byron Tract, and Southern Complex located to the west of Byron Highway

Common features are not repeated in this Engineering Project Report Update. For example, the Hood-Franklin Road Park and Ride Lot is included for every project design capacity option; and therefore, is only included in Attachment 1 for Alternative 1B.

For each feature, the construction information is provided in a format requested by the DCO, including Schedule, Offroad Diesel equipment use, Offroad Electrical equipment use (not including Tunnel Boring Machines – see Power Demand), Onroad vehicle and equipment use, Marine equipment use, Locomotive use, Helicopter use, Earthmoving volumes, Demolition.

The construction air quality analyses assume that the construction specifications would require use of commercially-available electric equipment and vehicles to reduce gasoline and diesel needs, including cranes and trucks. For equipment and vehicles not available as electrically-driven, the specifications would require use of commercially-available hybrid-diesel equipment and vehicles which reduce the use of diesel fuel especially during idling periods. The diesel-driven engines would use renewable diesel fuels.

The construction air quality analyses assume that all circuit breakers would be insulated with SF₆-gas-insulated switchgear. This assumption is conservative because the State of California has adopted regulations banning SF₆ circuit breakers after 2033 as vacuum or very low-GWP gas insulated breakers become commercially available.

This appendix was developed to provide DWR for consideration during the EIR air quality emissions and traffic analyses. This information was developed assuming that construction would begin in “Year 2026” without consideration of the future schedule for the EIR or permitting processes. The construction activities presented in this appendix were developed based upon a construction period ranging from one to fourteen years depending upon the project feature. The level of effort and duration of the activities would be the same regardless of the actual initial year of construction. Therefore, the items presented in this appendix were provided to DWR assuming the following chronological translation factors.

- Year 2026 = Construction Year 1
- Year 2027 = Construction Year 2
- Year 2028 = Construction Year 3
- Year 2029 = Construction Year 4
- Year 2030 = Construction Year 5
- Year 2031 = Construction Year 6
- Year 2032 = Construction Year 7
- Year 2033 = Construction Year 8
- Year 2034 = Construction Year 9
- Year 2035 = Construction Year 10
- Year 2036 = Construction Year 11
- Year 2037 = Construction Year 12
- Year 2038 = Construction Year 13
- Year 2039 = Construction Year 14

APPENDIX F – ATTACHMENT 1

Project Design Capacity 6,000 cfs

FINAL DRAFT

Construction Schedule for Intake 3 Haul Rd - Central & Eastern Access Road
Options 1A, 1B, 2A, 2B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	I3 HRd-C&E Access -1	6/25/2027	7/8/2027	14	5	10
Embankment	I3 HRd-C&E Access -2	7/9/2027	7/15/2027	5	5	10
Culvert Pipe	I3 HRd-C&E Access -3	7/16/2027	7/19/2027	3	3	10
Subdrain System	I3 HRd-C&E Access -4	7/20/2027	8/4/2027	14	5	10
Road Base	I3 HRd-C&E Access -5	8/5/2027	8/24/2027	15	5	10
Asphalt Paving	I3 HRd-C&E Access -6	8/25/2027	8/30/2027	5	5	10
KRail and Signs	I3 HRd-C&E Access -7	8/31/2027	8/31/2027	1	1	10
Intermediate Overlay	I3 HRd-C&E Access -8	6/17/2030	6/17/2030	1	1	10
Final Overlay	I3 HRd-C&E Access -9	8/18/2037	8/19/2037	2	2	10
Acres		0.4				

Offroad Equipment (Fossil Fuel) Inventory for Intake 3 Haul Rd - Central & Eastern
Options 1A, 1B, 2A, 2B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
I3 HRd-C&E Access -1	CAT D6LGPDozer w winch	Crawler Tractor	37.22	14	3	Diesel Tier 4 or Hybrid Dies	179	0.43		
I3 HRd-C&E Access -1	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	18.61	14	1	Diesel	384	0.38		
I3 HRd-C&E Access -2	CAT D6LGPDozer w winch	Crawler Tractor	12.41	5	2	Diesel Tier 4 or Hybrid Dies	179	0.43		
I3 HRd-C&E Access -2	Disk, Towed	Off-Highway Tractor	12.41	5	2	Diesel	140	0.44		
I3 HRd-C&E Access -2	CAT 14 M	Grader	6.2	5	1	Diesel	274	0.41		
I3 HRd-C&E Access -2	Water Pump, 4" Diesel	Pumps	1.49	5	0	Diesel	10	0.74		
I3 HRd-C&E Access -2	CAT 815, Roller	Roller	12.41	5	2	Diesel	170	0.38		
I3 HRd-C&E Access -3	Air Compressor 375 cfm	Air Compressor	1.28	3	0	Diesel Tier 4	122	0.48		
I3 HRd-C&E Access -3	CAT LOADER/HOE 416 E	Rubber Tired Loader	2.56	3	1	Diesel	78	0.36		
I3 HRd-C&E Access -3	Compactor, Plate, 22" w x 35"	Plate Compactor	1.28	3	0	Diesel	8.5	0.43		
I3 HRd-C&E Access -4	CAT LOADER/HOE 416 E	Rubber Tired Loader	2.95	14	0	Diesel	78	0.36		
I3 HRd-C&E Access -4	Compactor, Trench Roller, Vib 32" w	Roller	5.9	14	0	Diesel	20	0.38		
I3 HRd-C&E Access -5	CAT 14 M	Grader	16.75	15	1	Diesel	274	0.41		
I3 HRd-C&E Access -5	Water Pump, 4" Diesel	Pumps	16.75	15	1	Diesel	10	0.74		
I3 HRd-C&E Access -5	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	16.75	15	1	Diesel	156	0.38		
I3 HRd-C&E Access -6	CAT LOADER/HOE 416 E	Rubber Tired Loader	12.1	5	2	Diesel	78	0.36		
I3 HRd-C&E Access -6	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	12.1	5	2	Diesel or Hybrid	224	0.42		
I3 HRd-C&E Access -6	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	12.1	5	2	Diesel or Hybrid	137	0.38		
I3 HRd-C&E Access -6	Asphalt Rolller, 17.6 Tn Pneumatic, 133hp	Roller	12.1	5	2	Diesel or Hybrid	133	0.38		
I3 HRd-C&E Access -7	Boom Truck, 12.5 Tn Boom	Crane	4.5	1	5	Diesel or Hybrid	100	0.29		
I3 HRd-C&E Access -7	CAT LOADER/HOE 416 E	Rubber Tired Loader	4.5	1	5	Diesel	78	0.36		
I3 HRd-C&E Access -8	CAT LOADER/HOE 416 E	Rubber Tired Loader	3.82	1	4	Diesel	78	0.36		
I3 HRd-C&E Access -8	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	3.82	1	4	Diesel or Hybrid	224	0.42		
I3 HRd-C&E Access -8	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	3.82	1	4	Diesel or Hybrid	137	0.38		
I3 HRd-C&E Access -8	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	3.82	1	4	Diesel or Hybrid	133	0.38		
I3 HRd-C&E Access -9	CAT LOADER/HOE 416 E	Rubber Tired Loader	3.82	2	2	Diesel	78	0.36		
I3 HRd-C&E Access -9	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	3.82	2	2	Diesel or Hybrid	224	0.42		
I3 HRd-C&E Access -9	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	3.82	2	2	Diesel or Hybrid	137	0.38		
I3 HRd-C&E Access -9	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	3.82	2	2	Diesel or Hybrid	133	0.38		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Intake 3 Haul Rd - Central & Eastern
Options 1A, 1B, 2A, 2B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
I3 HRd-C&E Access -2	Light Plant, 4 lite, 1000w, Tower/Mast	49.5 hours	5		

Vehicle Inventory for Intake 3 Haul Rd - Central & Eastern
Options 1A, 1B, 2A, 2B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/Trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (mpg) (if known)	Fuel (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site													
13 HRD-C&E Access -1	Pickup, 1/2T, 2wd	Materials from Sacramento	14	9	0.6	15	1	Intake Haul Road to/from Sacramento	19	38	Hybrid Gasoline		
13 HRD-C&E Access -1	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	14	6	0.6	10	0.7	Intake Haul Road to/from Sacramento	19	38	Diesel		
13 HRD-C&E Access -1	Truck, Water, 4 mgal, Hwy	Water from Sacramento	14	6	0.4	14	1	Intake Haul Road to/from Sacramento	13	26	Diesel		
13 HRD-C&E Access -1	Truck, Flatbed, 10T, Hwy	Tractor from Sacramento	1	1	0.6	1	1.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
13 HRD-C&E Access -1	Truck, Flatbed, 10T, Hwy	Excavator to and from Sacramento	2	1	0.6	2	1.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
13 HRD-C&E Access -2	Pickup, 1/2T, 2wd	Materials from Sacramento	5	12	0.6	20	4	Intake Haul Road to/from Sacramento	19	38	Hybrid Gasoline		
13 HRD-C&E Access -2	Cat 30mgal w/Cat 770, 513HP	Materials from Sacramento	5	31	0.6	49	10	Intake Haul Road to/from Sacramento	19	38	Diesel		
13 HRD-C&E Access -2	Truck, Flatbed, 10T, Hwy	Tractor to Sacramento	2	1	0.6	2	1.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
13 HRD-C&E Access -2	Truck, Flatbed, 10T, Hwy	Grader from and to Sacramento	1	1	0.6	1	1.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
13 HRD-C&E Access -2	Truck, Flatbed, 10T, Hwy	Tractor and Roller to and from Sacramento	2	1	0.6	2	1.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
13 HRD-C&E Access -2	Truck, Water, 4 mgal, Hwy	Water from Sacramento	5	2	0.4	5	1	Intake Haul Road to/from Sacramento	13	26	Diesel		
13 HRD-C&E Access -2	Truck' End Dump' 16-20cy Hwy	Gravel from Sacramento	5	118	0.6	187	37	Intake Haul Road to/from Sacramento	19	38	Diesel		
13 HRD-C&E Access -3	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	3	1	0.6	2	1	Intake Haul Road to/from Sacramento	19	38	Diesel		
13 HRD-C&E Access -3	Truck, Flatbed, 10T, Hwy	Loader from Sacramento	1	1	0.6	1	1.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
13 HRD-C&E Access -3	Truck, Flatbed, 10T, Hwy	Plate Compactor to and from Sacramento	2	1	0.6	2	1.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
13 HRD-C&E Access -3	Truck' End Dump' 16-20cy Hwy	Gravel from Sacramento	3	1	0.6	1	0	Intake Haul Road to/from Sacramento	19	38	Diesel		
13 HRD-C&E Access -4	Truck, End Dump, 10-13cy Hwy	Materials from Sacramento	14	6	0.6	9	1	Intake Haul Road to/from Sacramento	19	38	Diesel		
13 HRD-C&E Access -4	Truck, Flatbed, 10T, Hwy	Roller to and from Sacramento	2	1	0.6	2	1.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
13 HRD-C&E Access -4	Truck' End Dump' 16-20cy Hwy	Gravel from Sacramento	14	1	0.6	1	0	Intake Haul Road to/from Sacramento	19	38	Diesel		
13 HRD-C&E Access -5	Truck, Flatbed, 10T, Hwy	Roller to and from Sacramento	2	1	0.6	2	1.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
13 HRD-C&E Access -5	Pickup, 3/4T, 4wd	Materials from Sacramento	15	17	0.6	26	2	Intake Haul Road to/from Sacramento	19	38	Hybrid Gasoline		
13 HRD-C&E Access -5	Truck' End Dump' 16-20cy Hwy	Base Rock from Sacramento	15	97	0.6	153	10	Intake Haul Road to/from Sacramento	19	38	Diesel		
13 HRD-C&E Access -5	Truck, Water, 4 mgal, Hwy	Water from Sacramento	15	7	0.4	15	1	Intake Haul Road to/from Sacramento Regional WWT	13	26	Diesel		
13 HRD-C&E Access -6	Truck, Flatbed, 10T, Hwy	Paver, Crane, and two Rollers to and from Sacramento	2	5	0.6	8	4.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
13 HRD-C&E Access -6	Truck, Water, 4 mgal, Hwy	Water from Sacramento	5	2	0.4	5	1	Intake Haul Road to/from Sacramento Regional WWT	13	26	Diesel		
13 HRD-C&E Access -6	Truck & Bottom Dump' 21cy' 30T	Asphalt from Sacramento	5	39	0.6	61	12	Intake Haul Road to/from Sacramento	19	38	Diesel Tier 4		
13 HRD-C&E Access -7	Truck, Flatbed, 10T, Hwy	Loader to Sacramento	1	1	0.6	1	1.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
13 HRD-C&E Access -7	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	1	0.6	2	1.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
13 HRD-C&E Access -8	Truck, Flatbed, 10T, Hwy	Paver, Crane, and two Rollers to and from Sacramento	2	5	0.6	8	4.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
13 HRD-C&E Access -8	Truck & Bottom Dump' 21cy' 30T	Asphalt from Sacramento	1	13	0.6	21	21	Intake Haul Road to/from Sacramento	19	38	Diesel Tier 4		
13 HRD-C&E Access -8	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	1	1	0.6	1	1.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
13 HRD-C&E Access -9	Truck, Flatbed, 10T, Hwy	Paver, Crane, and two Rollers to and from Sacramento	2	5	0.6	8	4	Intake Haul Road to/from Sacramento	19	38	Diesel		
13 HRD-C&E Access -9	Truck & Bottom Dump' 21cy' 30T	Asphalt from Sacramento	2	13	0.6	21	11	Intake Haul Road to/from Sacramento	19	38	Diesel Tier 4		
13 HRD-C&E Access -9	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	2	1	0.6	1	0.5	Intake Haul Road to/from Sacramento	19	38	Diesel		
Vehicle Use on Unpaved/Dirty Surface (no access roads at park and ride lots) --- on the Construction Site													
13 HRD-C&E Access -5	CAT 730 30T, Articulated End Dump	Dampers	14	93.04	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		465	Diesel Tier 4 or Hybrid Diesel		

**Employees Required to Intake 3 Haul Rd - Central & Eastern
Options 1A, 1B, 2A, 2B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B**

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip
I3 HRd-C&E Access -1	Operator G4 Dozer & Push Cat	37.22	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -1	Operator G2 Excavator 3.5 to 7.0	18.61	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -1	OPERATING ENGINEER FOREMAN	9.3	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -1	Teamster G3 ED 8-24cy, Water>7	93.04	10		Sacramento to/from Intake Haul Road	19
TOTAL I3 HRd-C&E Access-1						
I3 HRd-C&E Access -2	Laborer G2 General	1.49	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -2	Operator G5 Compactor w-blade	12.41	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -2	Operator G4 Dozer & Push Cat	12.41	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -2	OPERATING ENGINEER FOREMAN	12.41	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -2	Operator G2 Finish Blade	6.2	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -2	Teamster G2 Hwy ED 6-8cy, Water<7	6.2	10		Sacramento to/from Intake Haul Road	19
TOTAL I3 HRd-C&E Access-2						
I3 HRd-C&E Access -3	Laborer G1 Pipe layers	5.11	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -3	Laborer Foreman	1.28	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -3	Operator G3 BH-Loader>3/4cy	2.56	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -3	Teamster G1 Hwy ED<6cy, Flatbed	1.92	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -3	Teamster G2 Hwy ED 6-8cy, Water<7	0.64	10		Sacramento to/from Intake Haul Road	19
TOTAL I3 HRd-C&E Access-3						
I3 HRd-C&E Access -4	Laborer G1 Pipe layers	11.8	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -4	Laborer G1 Power Tamper	5.9	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -4	Operator G4 Loader <4.1cy	2.95	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -4	Teamster G2 Hwy ED 6-8cy, Water<7	5.9	10		Sacramento to/from Intake Haul Road	19
TOTAL I3 HRd-C&E Access-4						
I3 HRd-C&E Access -5	Laborer G3 Flagman	33.5	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -5	Operator G7 Roller, Compactor	16.75	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -5	OPERATING ENGINEER FOREMAN	16.75	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -5	Operator G4 Grade Check	16.75	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -5	Operator G2 Finish Blade	16.75	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -5	Operator G8 Generator	3.35	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -5	Teamster G2 Hwy ED 6-8cy, Water<7	16.75	10		Sacramento to/from Intake Haul Road	19
TOTAL I3 HRd-C&E Access-5						
I3 HRd-C&E Access -6	Laborer G2 General	48.4	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -6	Operator G5 Asphalt Roller	24.2	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -6	Operator G3 BH-Loader>3/4cy	12.1	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -6	OPERATING ENGINEER FOREMAN	12.1	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -6	Operator G4 Grade Check	12.1	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -6	Operator G5 Paver	12.1	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -6	Teamster G2 Hwy ED 6-8cy, Water<7	6.05	10		Sacramento to/from Intake Haul Road	19
TOTAL I3 HRd-C&E Access-6						
I3 HRd-C&E Access -7	Iron Worker-Rigger	4.5	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -7	Laborer G2 General	18	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -7	Operator G4a Boom truck<15 ton	4.5	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -7	Operator G3 BH-Loader>3/4cy	4.5	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -7	OPERATING ENGINEER FOREMAN	4.5	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -7	Teamster G3 Boom Truck	4.5	10		Sacramento to/from Intake Haul Road	19
TOTAL I3 HRd-C&E Access-7						
I3 HRd-C&E Access -8	Laborer G2 General	15.28	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -8	Operator G5 Asphalt Roller	7.64	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -8	Operator G3 BH-Loader>3/4cy	3.82	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -8	OPERATING ENGINEER FOREMAN	3.82	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -8	Operator G4 Grade Check	3.82	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -8	Operator G5 Paver	3.82	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -8	Teamster G2 Hwy ED 6-8cy, Water<7	1.91	10		Sacramento to/from Intake Haul Road	19
TOTAL I3 HRd-C&E Access-8						
I3 HRd-C&E Access -9	Laborer G2 General	15.28	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -9	Operator G5 Asphalt Roller	7.64	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -9	Operator G3 BH-Loader>3/4cy	3.82	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -9	OPERATING ENGINEER FOREMAN	3.82	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -9	Operator G4 Grade Check	3.82	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -9	Operator G5 Paver	3.82	10		Sacramento to/from Intake Haul Road	19
I3 HRd-C&E Access -9	Teamster G2 Hwy ED 6-8cy, Water<7	1.91	10		Sacramento to/from Intake Haul Road	19
TOTAL I3 HRd-C&E Access-9						

Marine Inventory for Intake 3 Haul Rd - Central & Eastern
Options 1A, 1B, 2A, 2B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Intake 3 Haul Rd - Central & Eastern
Options 1A, 1B, 2A, 2B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Intake 3 Haul Rd - Central & Eastern
Options 1A, 1B, 2A, 2B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Intake 3 Haul Rd - Options 1A, 1B, 2A, 2B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

[illegible]

**Demolition Assumptions for Intake 3 Haul Rd - Central & Eastern
Options 1A, 1B, 2A, 2B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Intake 5 Haul Rd - Central & Eastern Access Road
All Options

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	I5 HRd-C&E Access -1	4/9/2027	4/26/2027	14	5	10
Embankment	I5 HRd-C&E Access -2	4/27/2027	5/3/2027	5	5	10
Culvert Pipe	I5 HRd-C&E Access -3	5/4/2027	5/5/2027	3	3	10
Subdrain System	I5 HRd-C&E Access -4	5/6/2027	5/25/2027	14	5	10
Road Base	I5 HRd-C&E Access -5	5/26/2027	6/16/2027	16	5	10
Asphalt Paving	I5 HRd-C&E Access -6	6/17/2027	6/23/2027	5	5	10
KRail and Signs	I5 HRd-C&E Access -7	6/24/2027	6/24/2027	1	1	10
Intermediate Overlay	I5 HRd-C&E Access -8	5/15/2030	5/17/2030	3	3	10
Final Overlay	I5 HRd-C&E Access -9	7/1/2037	7/6/2037	5	5	10

Acres **1**

Offroad Equipment (Fossil Fuel) Inventory for Intake 5 Haul Rd - Central & Eastern
All Options

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
IS HRd-C&E Access -1	CAT D6LGPDozer w winch	Crawler Tractor	69.59	14	5	Diesel Tier 4 or Hybrid Dies	179	0.43		
IS HRd-C&E Access -1	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	69.59	14	5	Diesel	384	0.38		
IS HRd-C&E Access -2	CAT D6LGPDozer w winch	Crawler Tractor	62.64	5	13	Diesel Tier 4 or Hybrid Dies	179	0.43		
IS HRd-C&E Access -2	Disk, Towed	Off-Highway Tractor	62.64	5	13	Diesel	140	0.44		
IS HRd-C&E Access -2	CAT 14 M	Grader	31.32	5	6	Diesel	274	0.41		
IS HRd-C&E Access -2	Water Pump, 4" Diesel	Pumps	7.52	5	2	Diesel	10	0.74		
IS HRd-C&E Access -2	CAT 815, Roller	Roller	62.64	5	13	Diesel	170	0.38		
IS HRd-C&E Access -3	Air Compressor 375 cfm	Air Compressor	7.17	3	2	Diesel Tier 4	122	0.48		
IS HRd-C&E Access -3	CAT LOADER/HOE 416 E	Rubber Tired Loader	14.33	3	5	Diesel	78	0.36		
IS HRd-C&E Access -3	Compactor, Plate, 22" w x 35"	Plate Compactor	7.17	3	2	Diesel	8.5	0.43		
IS HRd-C&E Access -4	CAT LOADER/HOE 416 E	Rubber Tired Loader	16.53	14	1	Diesel	78	0.36		
IS HRd-C&E Access -4	Compactor, Trench Roller, Vib 32" w	Roller	33.05	14	2	Diesel	20	0.38		
IS HRd-C&E Access -5	CAT 14 M	Grader	72.28	16	5	Diesel	274	0.41		
IS HRd-C&E Access -5	Water Pump, 4" Diesel	Pumps	72.28	16	5	Diesel	10	0.74		
IS HRd-C&E Access -5	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	72.28	16	5	Diesel	156	0.38		
IS HRd-C&E Access -6	CAT LOADER/HOE 416 E	Rubber Tired Loader	61.07	5	12	Diesel	78	0.36		
IS HRd-C&E Access -6	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	61.07	5	12	Diesel or Hybrid	224	0.42		
IS HRd-C&E Access -6	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	61.07	5	12	Diesel or Hybrid	137	0.38		
IS HRd-C&E Access -6	Asphalt Rolller, 17.6 Tn Pneumatic, 133hp	Roller	61.07	5	12	Diesel or Hybrid	133	0.38		
IS HRd-C&E Access -7	Boom Truck, 12.5 Tn Boom	Crane	2.3	1	2	Diesel or Hybrid	100	0.29		
IS HRd-C&E Access -7	CAT LOADER/HOE 416 E	Rubber Tired Loader	2.3	1	2	Diesel	78	0.36		
IS HRd-C&E Access -8	CAT LOADER/HOE 416 E	Rubber Tired Loader	21.43	3	7	Diesel	78	0.36		
IS HRd-C&E Access -8	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	21.43	3	7	Diesel or Hybrid	224	0.42		
IS HRd-C&E Access -8	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	21.43	3	7	Diesel or Hybrid	137	0.38		
IS HRd-C&E Access -8	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	21.43	3	7	Diesel or Hybrid	133	0.38		
IS HRd-C&E Access -9	CAT LOADER/HOE 416 E	Rubber Tired Loader	21.43	5	4	Diesel	78	0.36		
IS HRd-C&E Access -9	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	21.43	5	4	Diesel or Hybrid	224	0.42		
IS HRd-C&E Access -9	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	21.43	5	4	Diesel or Hybrid	137	0.38		
IS HRd-C&E Access -9	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	21.43	5	4	Diesel or Hybrid	133	0.38		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Intake 5 Haul Rd - Central & Eastern
All Options

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
I5 HRd-C&E Access -2	Light Plant, 4 lite, 1000w, Tower/Mast	250.5 hour	5		

Vehicle Inventory for Intake 5 Haul Rd - Central & Eastern
All Options

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/Trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (mpg/ton) (if known)	Fuel (gal/day) (if known)
Vehicle Use on Paved Roads — and Not on Construction Site													
15 HMD-C&E Access-1	Pickup, 1/2T, 2wd	Materials from Sacramento	14	35	0.6	55	4	Intake Haul Road to/from Sacramento	19	38	Hybrid Gasoline		
15 HMD-C&E Access-1	Truck, Flatbed, 10T, 1wey	Materials from Sacramento	14	12	0.6	19	14	Intake Haul Road to/from Sacramento	19	38	Diesel		
15 HMD-C&E Access-1	Truck, Water, 4 mgal, 1wey	Water from Sacramento	14	6	0.4	14	1	Intake Haul Road to/from Sacramento	13	26	Diesel		
15 HMD-C&E Access-1	Truck, Flatbed, 10T, 1wey	Tractor from Sacramento	1	1	0.6	1	1.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
15 HMD-C&E Access-1	Truck, Flatbed, 10T, 1wey	Excavator to and from Sacramento	2	1	0.6	2	1.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
15 HMD-C&E Access-2	Pickup, 1/2T, 2wd	Materials from Sacramento	5	63	0.6	99	20	Intake Haul Road to/from Sacramento	19	38	Hybrid Gasoline		
15 HMD-C&E Access-2	Cat 30mgal w/Cat 770, 513HP	Materials from Sacramento	5	31	0.6	49	10	Intake Haul Road to/from Sacramento	19	38	Diesel		
15 HMD-C&E Access-2	Truck, Flatbed, 10T, 1wey	Tractor to Sacramento	1	1	0.6	1	1.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
15 HMD-C&E Access-2	Truck, Flatbed, 10T, 1wey	Grader from and to Sacramento	2	1	0.6	2	1.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
15 HMD-C&E Access-2	Truck, Flatbed, 10T, 1wey	Tractor and Roller to and from Sacramento	2	1	0.6	2	1.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
15 HMD-C&E Access-2	Truck, Water, 4 mgal, 1wey	Water from Sacramento	5	2	0.4	5	1	Intake Haul Road to/from Sacramento	13	26	Diesel		
15 HMD-C&E Access-2	Truck* End Dump* 16-20cy* 1wey	Gravel from Sacramento	5	661	0.6	1044	209	Intake Haul Road to/from Sacramento	19	38	Diesel		
15 HMD-C&E Access-3	Truck, Flatbed, 10T, 1wey	Materials from Sacramento	3	7	0.6	11	4	Intake Haul Road to/from Sacramento	19	38	Diesel		
15 HMD-C&E Access-3	Truck, Flatbed, 10T, 1wey	Loader from Sacramento	1	1	0.6	1	1.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
15 HMD-C&E Access-3	Truck, Flatbed, 10T, 1wey	Plate Compactor to and from Sacramento	2	1	0.6	2	1.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
15 HMD-C&E Access-3	Truck* End Dump* 16-20cy* 1wey	Gravel from Sacramento	3	1	0.6	2	1	Intake Haul Road to/from Sacramento	19	38	Diesel		
15 HMD-C&E Access-4	Truck, End Dump, 10-13cy, 1wey	Materials from Sacramento	14	33	0.6	52	4	Intake Haul Road to/from Sacramento	19	38	Diesel		
15 HMD-C&E Access-4	Truck, Flatbed, 10T, 1wey	Roller to and from Sacramento	2	1	0.6	2	1.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
15 HMD-C&E Access-4	Truck* End Dump* 16-20cy* 1wey	Gravel from Sacramento	14	3	0.6	5	0	Intake Haul Road to/from Sacramento	19	38	Diesel		
15 HMD-C&E Access-5	Truck, Flatbed, 10T, 1wey	Roller to and from Sacramento	2	1	0.6	2	1.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
15 HMD-C&E Access-5	Pickup, 3/4T, 4wd	Materials from Sacramento	16	72	0.6	114	7	Intake Haul Road to/from Sacramento	19	38	Hybrid Gasoline		
15 HMD-C&E Access-5	Truck* End Dump* 16-20cy* 1wey	Base Rock from Sacramento	16	541	0.6	854	53	Intake Haul Road to/from Sacramento	19	38	Diesel		
15 HMD-C&E Access-5	Truck, Water, 4 mgal, 1wey	Recycled Water from Sacramento Regional WWTP	16	7	0.4	16	1	Intake Haul Road to/from Sacramento Regional WWTP	13	26	Diesel		
15 HMD-C&E Access-6	Truck, Flatbed, 10T, 1wey	Paver, Crane, and two Rollers to and from Sacramento	2	5	0.6	8	4.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
15 HMD-C&E Access-6	Truck, Water, 4 mgal, 1wey	Water from Sacramento	5	2	0.4	5	1	Intake Haul Road to/from Sacramento	13	26	Diesel		
15 HMD-C&E Access-6	Truck & Bottom Dump* 21cy* 30T	Asphalt from Sacramento	5	215	0.6	340	68	Intake Haul Road to/from Sacramento	19	38	Diesel Tier 4		
15 HMD-C&E Access-7	Truck, Flatbed, 10T, 1wey	Loader to Sacramento	1	1	0.6	1	1.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
15 HMD-C&E Access-7	Truck, Flatbed, 10T, 1wey	Crane to and from Sacramento	2	1	0.6	2	1.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
15 HMD-C&E Access-8	Truck, Flatbed, 10T, 1wey	Paver, Crane, and two Rollers to and from Sacramento	2	5	0.6	8	4.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
15 HMD-C&E Access-8	Truck & Bottom Dump* 21cy* 30T	Asphalt from Sacramento	3	72	0.6	114	38	Intake Haul Road to/from Sacramento	19	38	Diesel Tier 4		
15 HMD-C&E Access-9	Truck, Flatbed, 10T, 1wey	Paver, Crane, and two Rollers to and from Sacramento	2	5	0.6	8	4	Intake Haul Road to/from Sacramento	19	38	Diesel		
15 HMD-C&E Access-9	Truck & Bottom Dump* 21cy* 30T	Asphalt from Sacramento	5	72	0.6	114	23	Intake Haul Road to/from Sacramento	19	38	Diesel Tier 4		
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) — on the Construction Site													
15 HMD-C&E Access-1	CAT 730 30T, Articulated End Dump	Dumpers	14	347.87	not applicable	not applicable	not applicable	on-site, assume 5 miles/hour		1740	Diesel Tier 4 or Hybrid Diesel		

Employees Required to Intake 5 Haul Rd - Central & Eastern All Options

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip
I5 HRd-C&E Access -1	Operator G4 Dozer & Push Cat	69.59	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -1	Operator G2 Excavator 3.5 to 7.0	69.59	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -1	OPERATING ENGINEER FOREMAN	34.8	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -1	Teamster G3 ED 8-24cy, Water>7	347.97	10		Sacramento to/from Intake Haul Road	19
TOTAL I5 HRd-C&E Access-1						
I5 HRd-C&E Access -2	Laborer G2 General	7.52	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -2	Operator G5 Compactor w-blade	62.64	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -2	Operator G4 Dozer & Push Cat	62.64	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -2	OPERATING ENGINEER FOREMAN	62.64	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -2	Operator G2 Finish Blade	31.32	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -2	Teamster G2 Hwy ED 6-8cy, Water<7	31.32	10		Sacramento to/from Intake Haul Road	19
TOTAL I5 HRd-C&E Access-2						
I5 HRd-C&E Access -3	Laborer G1 Pipe layers	28.67	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -3	Laborer Foreman	7.17	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -3	Operator G3 BH-Loader>3/4cy	14.33	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -3	Teamster G1 Hwy ED<6cy, Flatbed	10.75	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -3	Teamster G2 Hwy ED 6-8cy, Water<7	3.58	10		Sacramento to/from Intake Haul Road	19
TOTAL I5 HRd-C&E Access-3						
I5 HRd-C&E Access -4	Laborer G1 Pipe layers	66.1	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -4	Laborer G1 Power Tamper	33.05	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -4	Operator G4 Loader <4.1cy	16.53	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -4	Teamster G2 Hwy ED 6-8cy, Water<7	33.05	10		Sacramento to/from Intake Haul Road	19
TOTAL I5 HRd-C&E Access-4						
I5 HRd-C&E Access -5	Laborer G3 Flagman	144.55	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -5	Operator G7 Roller, Compactor	72.28	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -5	OPERATING ENGINEER FOREMAN	72.28	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -5	Operator G4 Grade Check	72.28	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -5	Operator G2 Finish Blade	72.28	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -5	Operator G8 Generator	14.46	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -5	Teamster G2 Hwy ED 6-8cy, Water<7	72.28	10		Sacramento to/from Intake Haul Road	19
TOTAL I5 HRd-C&E Access-5						
I5 HRd-C&E Access -6	Laborer G2 General	244.28	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -6	Operator G5 Asphalt Roller	122.14	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -6	Operator G3 BH-Loader>3/4cy	61.07	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -6	OPERATING ENGINEER FOREMAN	61.07	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -6	Operator G4 Grade Check	61.07	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -6	Operator G5 Paver	61.07	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -6	Teamster G2 Hwy ED 6-8cy, Water<7	30.54	10		Sacramento to/from Intake Haul Road	19
TOTAL I5 HRd-C&E Access-6						
I5 HRd-C&E Access -7	Iron Worker-Rigger	2.3	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -7	Laborer G2 General	9.22	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -7	Operator G4a Boom truck<15 ton	2.3	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -7	Operator G3 BH-Loader>3/4cy	2.3	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -7	OPERATING ENGINEER FOREMAN	2.3	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -7	Teamster G3 Boom Truck	2.3	10		Sacramento to/from Intake Haul Road	19
TOTAL I5 HRd-C&E Access-7						
I5 HRd-C&E Access -8	Laborer G2 General	85.73	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -8	Operator G5 Asphalt Roller	42.86	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -8	Operator G3 BH-Loader>3/4cy	21.43	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -8	OPERATING ENGINEER FOREMAN	21.43	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -8	Operator G4 Grade Check	21.43	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -8	Operator G5 Paver	21.43	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -8	Teamster G2 Hwy ED 6-8cy, Water<7	10.72	10		Sacramento to/from Intake Haul Road	19
TOTAL I5 HRd-C&E Access-8						
I5 HRd-C&E Access -9	Laborer G2 General	85.73	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -9	Operator G5 Asphalt Roller	42.86	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -9	Operator G3 BH-Loader>3/4cy	21.43	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -9	OPERATING ENGINEER FOREMAN	21.43	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -9	Operator G4 Grade Check	21.43	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -9	Operator G5 Paver	21.43	10		Sacramento to/from Intake Haul Road	19
I5 HRd-C&E Access -9	Teamster G2 Hwy ED 6-8cy, Water<7	10.72	10		Sacramento to/from Intake Haul Road	19
TOTAL I5 HRd-C&E Access-9						

Marine Inventory for Intake 5 Haul Rd - Central & Eastern
All Options

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Intake 5 Haul Rd - Central & Eastern
All Options

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Intake 5 Haul Rd - Central & Eastern
All Options**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving All Options

[illegible]

**Demolition Assumptions for Intake 5 Haul Rd - Central & Eastern
All Options**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Intake Haul Rd - Central & Eastern Access Road
Options 1, 2, 7, 8, 9, 10

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	IHRd-C&E Access -1	4/27/2026	7/20/2026	61	5	10
Embankment	IHRd-C&E Access -2	7/21/2026	9/24/2026	48	5	10
Culvert Pipe	IHRd-C&E Access -3	9/25/2026	10/1/2026	5	5	10
Subdrain System	IHRd-C&E Access -4	10/2/2026	12/17/2026	55	5	10
Road Base	IHRd-C&E Access -5	12/18/2026	2/25/2027	50	5	10
Asphalt Paving	IHRd-C&E Access -6	2/26/2027	4/7/2027	30	5	10
KRail and Signs	IHRd-C&E Access -7	4/8/2027	4/8/2027	1	1	10
Intermediate Overlay	IHRd-C&E Access -8	4/30/2030	5/10/2030	9	5	10
Final Overlay	IHRd-C&E Access -9	6/16/2037	7/29/2037	32	5	10
Acres		10.4				

NOTE: Access road between Intakes 2 and 3 are included in Intake 2 tables

**Offroad Equipment (Fossil Fuel) Inventory for Intake Haul Rd - Central & Eastern
Options 1, 2, 7, 8, 9, 10**

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
IHRd-C&E Access -1	CAT D6LGPDozer w winch	Crawler Tractor	545.84	61	9	Diesel Tier 4 or Hybrid Dies	179	0.43		
IHRd-C&E Access -1	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	272.92	61	4	Diesel	384	0.38		
IHRd-C&E Access -2	CAT D6LGPDozer w winch	Crawler Tractor	393.01	48	8	Diesel Tier 4 or Hybrid Dies	179	0.43		
IHRd-C&E Access -2	Disk, Towed	Off-Highway Tractor	393.01	48	8	Diesel	140	0.44		
IHRd-C&E Access -2	CAT 14 M	Grader	196.5	48	4	Diesel	274	0.41		
IHRd-C&E Access -2	Water Pump, 4" Diesel	Pumps	47.16	48	1	Diesel	10	0.74		
IHRd-C&E Access -2	CAT 815, Roller	Roller	393.01	48	8	Diesel	170	0.38		
IHRd-C&E Access -2	Light Plant, 4 lite, 1000w, Tower/Mast	Generators	1572.03	48	33	Diesel	12	0.74		
IHRd-C&E Access -3	Air Compressor 375 cfm	Air Compressor	27.94	5	6	Diesel Tier 4	122	0.48		
IHRd-C&E Access -3	CAT LOADER/HOE 416 E	Rubber Tired Loader	55.89	5	11	Diesel	78	0.36		
IHRd-C&E Access -3	Compactor, Plate, 22" w x 35"	Plate Compactor	27.94	5	6	Diesel	8.5	0.43		
IHRd-C&E Access -4	CAT LOADER/HOE 416 E	Rubber Tired Loader	64.78	55	1	Diesel	78	0.36		
IHRd-C&E Access -4	Compactor, Trench Roller, Vib 32"w	Roller	129.55	55	2	Diesel	20	0.38		
IHRd-C&E Access -5	CAT 14 M	Grader	263.17	50	5	Diesel	274	0.41		
IHRd-C&E Access -5	Water Pump, 4" Diesel	Pumps	263.17	50	5	Diesel	10	0.74		
IHRd-C&E Access -5	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	263.17	50	5	Diesel	156	0.38		
IHRd-C&E Access -6	CAT LOADER/HOE 416 E	Rubber Tired Loader	217.72	30	7	Diesel	78	0.36		
IHRd-C&E Access -6	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	217.72	30	7	Diesel or Hybrid	224	0.42		
IHRd-C&E Access -6	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	217.72	30	7	Diesel or Hybrid	137	0.38		
IHRd-C&E Access -6	Asphalt Rolller, 17.6 Tn Pneumatic,133hp	Roller	217.72	30	7	Diesel or Hybrid	133	0.38		
IHRd-C&E Access -7	Boom Truck, 12.5 Tn Boom	Crane	10	1	10	Diesel or Hybrid	100	0.29		
IHRd-C&E Access -7	CAT LOADER/HOE 416 E	Rubber Tired Loader	10	1	10	Diesel	78	0.36		
IHRd-C&E Access -8	CAT LOADER/HOE 416 E	Rubber Tired Loader	84.03	9	9	Diesel	78	0.36		
IHRd-C&E Access -8	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	84.03	9	9	Diesel or Hybrid	224	0.42		
IHRd-C&E Access -8	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	84.03	9	9	Diesel or Hybrid	137	0.38		
IHRd-C&E Access -8	Asphalt Rolller, 17.6 Tn Pneumatic,133hp	Roller	84.03	9	9	Diesel or Hybrid	133	0.38		
IHRd-C&E Access -9	CAT LOADER/HOE 416 E	Rubber Tired Loader	84.03	32	3	Diesel	78	0.36		
IHRd-C&E Access -9	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	84.03	32	3	Diesel or Hybrid	224	0.42		
IHRd-C&E Access -9	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	84.03	32	3	Diesel or Hybrid	137	0.38		
IHRd-C&E Access -9	Asphalt Rolller, 17.6 Tn Pneumatic,133hp	Roller	84.03	32	3	Diesel or Hybrid	133	0.38		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Intake Haul Rd - Central & Eastern
Options 1, 2, 7, 8, 9, 10

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
IHRd-C&E Access -2	Light Plant, 4 lite, 1000w, Tower/Mast	1572 hours	48		

Vehicle Inventory for Intake Haul Rd - Central & Eastern
Options 1, 2, 7, 8, 9, 10

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (mpg) (if known)	Fuel (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site													
HRH-C&E Access-1	Pickup, 1/2T, 2wd	Materials from Sacramento	61	136	0.6	215	4	Intake Haul Road to/from Sacramento	19	38	Hybrid Gasoline		
HRH-C&E Access-1	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	61	8	0.6	13	0	Intake Haul Road to/from Sacramento	19	38	Diesel		
HRH-C&E Access-1	Truck, Water, 4 mgal, Hwy	Water from Sacramento	61	25	0.4	58	1	Intake Haul Road to/from Sacramento	13	26	Diesel		
HRH-C&E Access-1	Truck, Flatbed, 10T, Hwy	Tractor from Sacramento	1	1	0.6	1	1.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
HRH-C&E Access-1	Truck, Flatbed, 10T, Hwy	Excavator to and from Sacramento	2	1	0.6	2	1.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
HRH-C&E Access-2	Pickup, 1/2T, 2wd	Materials from Sacramento	48	393	0.6	621	13	Intake Haul Road to/from Sacramento	19	38	Hybrid Gasoline		
HRH-C&E Access-2	Cat 10mgal w/Cat 770, 513HP	Materials from Sacramento	48	197	0.6	310	6	Intake Haul Road to/from Sacramento	19	38	Diesel		
HRH-C&E Access-2	Truck, Flatbed, 10T, Hwy	Tractor to Sacramento	1	1	0.6	1	1.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
HRH-C&E Access-2	Truck, Flatbed, 10T, Hwy	Grader to and from Sacramento	2	1	0.6	2	1.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
HRH-C&E Access-2	Truck, Flatbed, 10T, Hwy	Tractor and Roller to and from Sacramento	2	1	0.6	1	0.5	Intake Haul Road to/from Sacramento	19	38	Diesel		
HRH-C&E Access-2	Truck, Water, 4 mgal, Hwy	Water from Sacramento	48	91	0.4	211	4	Intake Haul Road to/from Sacramento	13	26	Diesel		
HRH-C&E Access-2	Truck* End Dump* 16-20cy Hwy	Gravel from Sacramento	48	3241	0.6	5118	107	Intake Haul Road to/from Sacramento	19	38	Diesel		
HRH-C&E Access-3	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	5	28	0.6	44	9	Intake Haul Road to/from Sacramento	19	38	Diesel		
HRH-C&E Access-3	Truck, Flatbed, 10T, Hwy	Loader from Sacramento	1	1	0.6	1	1.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
HRH-C&E Access-3	Truck, Flatbed, 10T, Hwy	Plate Compactor to and from Sacramento	2	1	0.6	2	1.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
HRH-C&E Access-3	Truck* End Dump* 16-20cy Hwy	Gravel from Sacramento	5	3	0.6	5	1	Intake Haul Road to/from Sacramento	19	38	Diesel		
HRH-C&E Access-4	Truck, End Dump, 10-13cy Hwy	Materials from Sacramento	55	130	0.6	205	4	Intake Haul Road to/from Sacramento	19	38	Diesel		
HRH-C&E Access-4	Truck, Flatbed, 10T, Hwy	Roller to and from Sacramento	2	1	0.6	2	1.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
HRH-C&E Access-4	Truck* End Dump* 16-20cy Hwy	Gravel from Sacramento	55	11	0.6	18	0	Intake Haul Road to/from Sacramento	19	38	Diesel		
HRH-C&E Access-5	Truck, Flatbed, 10T, Hwy	Roller to and from Sacramento	2	1	0.6	2	1.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
HRH-C&E Access-5	Pickup, 3/4T, 4wd	Materials from Sacramento	50	263	0.6	416	8	Intake Haul Road to/from Sacramento	19	38	Hybrid Gasoline		
HRH-C&E Access-5	Truck* End Dump* 16-20cy Hwy	Base Rock from Sacramento	50	2120	0.6	3347	67	Intake Haul Road to/from Sacramento	19	38	Diesel		
HRH-C&E Access-5	Truck, Water, 4 mgal, Hwy	Water from Sacramento	50	41	0.4	95	2	Intake Haul Road to/from Sacramento	13	26	Diesel		
HRH-C&E Access-6	Truck, Flatbed, 10T, Hwy	Paver, Crane, and two Rollers to and from Sacramento	2	5	0.6	8	4.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
HRH-C&E Access-6	Truck, Water, 4 mgal, Hwy	Water from Sacramento	30	78	0.4	180	6	Intake Haul Road to/from Sacramento	13	26	Diesel		
HRH-C&E Access-6	Truck & Bottom Dump* 21cy* 30T	Asphalt from Sacramento	30	843	0.6	1311	44	Intake Haul Road to/from Sacramento	19	38	Diesel Tier 4		
HRH-C&E Access-7	Truck, Flatbed, 10T, Hwy	Loader to Sacramento	1	1	0.6	1	1.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
HRH-C&E Access-7	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	1	0.6	2	1.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
HRH-C&E Access-8	Truck, Flatbed, 10T, Hwy	Paver, Crane, and two Rollers to and from Sacramento	2	5	0.6	8	4.0	Intake Haul Road to/from Sacramento	19	38	Diesel		
HRH-C&E Access-8	Truck & Bottom Dump* 21cy* 30T	Asphalt from Sacramento	9	281	0.6	444	49	Intake Haul Road to/from Sacramento	19	38	Diesel Tier 4		
HRH-C&E Access-8	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	9	1	0.6	2	0	Intake Haul Road to/from Sacramento	19	38	Diesel		
HRH-C&E Access-9	Truck, Flatbed, 10T, Hwy	Paver, Crane, and two Rollers to and from Sacramento	2	5	0.6	8	4	Intake Haul Road to/from Sacramento	19	38	Diesel		
HRH-C&E Access-9	Truck & Bottom Dump* 21cy* 30T	Asphalt from Sacramento	32	281	0.6	444	14	Intake Haul Road to/from Sacramento	19	38	Diesel Tier 4		
HRH-C&E Access-9	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	32	1	0.6	2	0	Intake Haul Road to/from Sacramento	19	38	Diesel		
Vehicle Use on Unpaved/Dirty Surface (no access roads at park and ride lots) --- on the Construction Site													
HRH-C&E Access-1	CAT 730 30T, Articulated End Dump	Dumpers	61	1364.61	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		6823	Diesel Tier 4 or Hybrid Diesel		

**Employees Required to Intake Haul Rd - Central & Eastern
Options 1, 2, 7, 8, 9, 10**

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip
IHRd-C&E Access -1	Operator G4 Dozer & Push Cat	545.84	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -1	Operator G2 Excavator 3.5 to 7.0	272.92	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -1	OPERATING ENGINEER FOREMAN	136.46	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -1	Teamster G3 ED 8-24cy, Water>7	1364.61	10		Sacramento to/from Intake Haul Road	19
TOTAL IHRd-C&E Access-1						
IHRd-C&E Access -2	Laborer G2 General	47.16	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -2	Operator G5 Compactor w-blade	393.01	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -2	Operator G4 Dozer & Push Cat	393.01	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -2	OPERATING ENGINEER FOREMAN	393.01	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -2	Operator G2 Finish Blade	196.5	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -2	Teamster G2 Hwy ED 6-8cy, Water<7	196.5	10		Sacramento to/from Intake Haul Road	19
TOTAL IHRd-C&E Access-2						
IHRd-C&E Access -3	Laborer G1 Pipe layers	111.78	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -3	Laborer Foreman	27.94	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -3	Operator G3 BH-Loader>3/4cy	55.89	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -3	Teamster G1 Hwy ED<6cy, Flatbed	41.92	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -3	Teamster G2 Hwy ED 6-8cy, Water<7	13.97	10		Sacramento to/from Intake Haul Road	19
TOTAL IHRd-C&E Access-3						
IHRd-C&E Access -4	Laborer G1 Pipe layers	259.1	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -4	Laborer G1 Power Tamper	129.55	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -4	Operator G4 Loader <4.1cy	64.78	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -4	Teamster G2 Hwy ED 6-8cy, Water<7	129.55	10		Sacramento to/from Intake Haul Road	19
TOTAL IHRd-C&E Access-4						
IHRd-C&E Access -5	Laborer G3 Flagman	526.34	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -5	Operator G7 Roller, Compactor	263.17	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -5	OPERATING ENGINEER FOREMAN	263.17	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -5	Operator G4 Grade Check	263.17	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -5	Operator G2 Finish Blade	263.17	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -5	Operator G8 Generator	52.63	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -5	Teamster G2 Hwy ED 6-8cy, Water<7	263.17	10		Sacramento to/from Intake Haul Road	19
TOTAL IHRd-C&E Access-5						
IHRd-C&E Access -6	Laborer G2 General	870.87	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -6	Operator G5 Asphalt Roller	435.44	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -6	Operator G3 BH-Loader>3/4cy	217.72	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -6	OPERATING ENGINEER FOREMAN	217.72	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -6	Operator G4 Grade Check	217.72	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -6	Operator G5 Paver	217.72	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -6	Teamster G2 Hwy ED 6-8cy, Water<7	108.86	10		Sacramento to/from Intake Haul Road	19
TOTAL IHRd-C&E Access-6						
IHRd-C&E Access -7	Iron Worker-Rigger	4.36	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -7	Laborer G2 General	17.45	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -7	Operator G4a Boom truck<15 ton	4.36	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -7	Operator G3 BH-Loader>3/4cy	4.36	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -7	OPERATING ENGINEER FOREMAN	4.36	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -7	Teamster G3 Boom Truck	4.36	10		Sacramento to/from Intake Haul Road	19
TOTAL IHRd-C&E Access-7						
IHRd-C&E Access -8	Laborer G2 General	336.13	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -8	Operator G5 Asphalt Roller	168.06	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -8	Operator G3 BH-Loader>3/4cy	84.03	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -8	OPERATING ENGINEER FOREMAN	84.03	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -8	Operator G4 Grade Check	84.03	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -8	Operator G5 Paver	84.03	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -8	Teamster G2 Hwy ED 6-8cy, Water<7	42.02	10		Sacramento to/from Intake Haul Road	19
TOTAL IHRd-C&E Access-8						
IHRd-C&E Access -9	Laborer G2 General	336.13	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -9	Operator G5 Asphalt Roller	168.06	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -9	Operator G3 BH-Loader>3/4cy	84.03	10		Sacramento to/from Intake Haul Road	19
IHRd-C&E Access -9	OPERATING ENGINEER FOREMAN	84.03	10		Sacramento to/from Intake Haul Road	19

Marine Inventory for Intake Haul Rd - Central & Eastern
Options 1, 2, 7, 8, 9, 10

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Intake Haul Rd - Central & Eastern
Options 1, 2, 7, 8, 9, 10

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Intake Haul Rd - Central & Eastern
Options 1, 2, 7, 8, 9, 10**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving As
Options 1, 2, 7, 8, 9, 10

[illegible]

**Demolition Assumptions for Intake Haul Rd - Central & Eastern
Options 1, 2, 7, 8, 9, 10**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Lambert Rd - Central & Eastern Access Road
For Intake Access Road Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	LRd-C&E Access -1	2/26/2027	3/2/2027	5	5	10
Culvert Pipe	LRd-C&E Access -2	3/3/2027	3/3/2027	1	1	10
Subdrain System	LRd-C&E Access -3	3/4/2027	3/18/2027	11	5	10
Road Base	LRd-C&E Access -4	3/19/2027	3/31/2027	10	5	10
Asphalt Paving	LRd-C&E Access -5	4/1/2027	4/6/2027	5	5	10
KRail and Signs	LRd-C&E Access -6	4/7/2027	4/20/2027	10	5	10
Intermediate Overlay	LRd-C&E Access -7	5/30/2030	6/7/2030	6	5	10
Final Overlay	LRd-C&E Access -8	7/29/2037	8/7/2037	8	5	10

Acres **12.5**

Offroad Equipment (Fossil Fuel) Inventory for Lambert Rd - Central & Eastern
For Intake Access Road Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
LRd-C&E Access -1	CAT D6LGPDozer w winch	Crawler Tractor	94.44	5	19	Diesel Tier 4 or Hybrid Dies	179	0.43		
LRd-C&E Access -1	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	94.44	5	19	Diesel	384	0.38		
LRd-C&E Access -2	Air Compressor 375 cfm	Air Compressor	7.17	1	7	Diesel Tier 4	122	0.48		
LRd-C&E Access -2	CAT LOADER/HOE 416 E	Rubber Tired Loader	14.33	1	14	Diesel	78	0.36		
LRd-C&E Access -2	Compactor, Plate, 22"w x 35"	Plate Compactor	7.17	1	7	Diesel	8.5	0.43		
LRd-C&E Access -3	CAT LOADER/HOE 416 E	Rubber Tired Loader	53.13	11	5	Diesel	78	0.36		
LRd-C&E Access -3	Compactor, Trench Roller, Vib 32"w	Roller	106.25	11	10	Diesel	20	0.38		
LRd-C&E Access -4	CAT 14 M	Grader	108.98	10	11	Diesel	274	0.41		
LRd-C&E Access -4	Water Pump, 4" Diesel	Pumps	108.98	10	11	Diesel	10	0.74		
LRd-C&E Access -4	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	108.98	10	11	Diesel	156	0.38		
LRd-C&E Access -5	CAT LOADER/HOE 416 E	Rubber Tired Loader	61.39	5	12	Diesel	78	0.36		
LRd-C&E Access -5	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	61.39	5	12	Diesel or Hybrid	224	0.42		
LRd-C&E Access -5	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	61.39	5	12	Diesel or Hybrid	137	0.38		
LRd-C&E Access -5	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	61.39	5	12	Diesel or Hybrid	133	0.38		
LRd-C&E Access -6	Boom Truck, 12.5 Tn Boom	Crane	170	10	17	Diesel or Hybrid	100	0.29		
LRd-C&E Access -6	CAT LOADER/HOE 416 E	Rubber Tired Loader	170	10	17	Diesel	78	0.36		
LRd-C&E Access -7	CAT LOADER/HOE 416 E	Rubber Tired Loader	68.93	6	11	Diesel	78	0.36		
LRd-C&E Access -7	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	68.93	6	11	Diesel or Hybrid	224	0.42		
LRd-C&E Access -7	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	68.93	6	11	Diesel or Hybrid	137	0.38		
LRd-C&E Access -7	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	68.93	6	11	Diesel or Hybrid	133	0.38		
LRd-C&E Access -8	CAT LOADER/HOE 416 E	Rubber Tired Loader	68.93	8	9	Diesel	78	0.36		
LRd-C&E Access -8	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	68.93	8	9	Diesel or Hybrid	224	0.42		
LRd-C&E Access -8	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	68.93	8	9	Diesel or Hybrid	137	0.38		
LRd-C&E Access -8	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	68.93	8	9	Diesel or Hybrid	133	0.38		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Lambert Rd - Central & Eastern
For Intake Access Road Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
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NOT NEEDED

Vehicle Inventory for Lambert Rd - Central & Eastern
For Intake Access Road Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/Trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (mpg) (if known)	Fuel (gal/day) (if known)
Vehicle Use on Paved Roads — and Not on Construction Site													
LN0-C&E Access-1	Pickup, 1/2T, 2wd	Materials from Sacramento	5	47	0.6	75	15	Lambert Road to/from Sacramento	19	38	Hybrid Gasoline		
LN0-C&E Access-1	Truck, Water, 4 med, Hwy	Water from Sacramento	5	7	0.4	10	3	Lambert Road to/from Sacramento	13	26	Diesel		
LN0-C&E Access-1	Truck, Flatbed, 10T, Hwy	Tractor to and from Sacramento	2	1	0.6	2	1.0	Lambert Road to/from Sacramento	19	38	Diesel		
LN0-C&E Access-1	Truck, Flatbed, 10T, Hwy	Excavator to and from Sacramento	2	1	0.6	2		Lambert Road to/from Sacramento	19	38	Diesel		
LN0-C&E Access-2	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	1	7	0.6	11	11	Lambert Road to/from Sacramento	19	38	Diesel		
LN0-C&E Access-2	Truck, Flatbed, 10T, Hwy	Loader from Sacramento	1	1	0.6	1	1.0	Lambert Road to/from Sacramento	19	38	Diesel		
LN0-C&E Access-2	Truck, Flatbed, 10T, Hwy	Plate Compactor to and from Sacramento	2	1	0.6	2	1.0	Lambert Road to/from Sacramento	19	38	Diesel		
LN0-C&E Access-2	Truck, End Dump, 16-20cy, Hwy	Gravel from Sacramento	1	1	0.6	2	2	Lambert Road to/from Sacramento	19	38	Diesel		
LN0-C&E Access-3	Truck, End Dump, 10-13cy, Hwy	Materials from Sacramento	11	106	0.6	168	15	Lambert Road to/from Sacramento	19	38	Diesel		
LN0-C&E Access-3	Truck, Flatbed, 10T, Hwy	Roller to and from Sacramento	2	1	0.6	2	1.0	Lambert Road to/from Sacramento	19	38	Diesel		
LN0-C&E Access-3	Truck, End Dump, 16-20cy, Hwy	Gravel from Sacramento	11	10	0.6	15	1	Lambert Road to/from Sacramento	19	38	Diesel		
LN0-C&E Access-4	Truck, Flatbed, 10T, Hwy	Roller to and from Sacramento	2	1	0.6	2	1.0	Lambert Road to/from Sacramento	19	38	Diesel		
LN0-C&E Access-4	Pickup, 3/4T, 4wd	Materials from Sacramento	10	109	0.6	172	17	Lambert Road to/from Sacramento	19	38	Hybrid Gasoline		
LN0-C&E Access-4	Truck, End Dump, 16-20cy, Hwy	Base Rock from Sacramento	10	815	0.6	1287	129	Lambert Road to/from Sacramento	19	38	Diesel		
LN0-C&E Access-4	Truck, Water, 4 med, Hwy	Water from Sacramento	10	16	0.4	36	4	Lambert Road to/from Sacramento	13	26	Diesel		
LN0-C&E Access-5	Truck, Flatbed, 10T, Hwy	Paver, Crane, and two Rollers to and from Sacramento	2	5	0.6	8	4.0	Lambert Road to/from Sacramento	19	38	Diesel		
LN0-C&E Access-5	Truck, Water, 4 med, Hwy	Water from Sacramento	5	5	0.4	12	2	Lambert Road to/from Sacramento	13	26	Diesel		
LN0-C&E Access-5	Truck, Bottom Dump, 21cy, 30T	Asphalt from Sacramento	5	260	0.6	410	80	Lambert Road to/from Sacramento	19	38	Diesel Tier 4		
LN0-C&E Access-6	Truck, Flatbed, 10T, Hwy	Loader to Sacramento	1	1	0.6	1	1.0	Lambert Road to/from Sacramento	19	38	Diesel		
LN0-C&E Access-6	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	1	0.6	2	1.0	Lambert Road to/from Sacramento	19	38	Diesel		
LN0-C&E Access-7	Truck, Flatbed, 10T, Hwy	Paver, Crane, and two Rollers to and from Sacramento	2	5	0.6	8	4.0	Lambert Road to/from Sacramento	19	38	Diesel		
LN0-C&E Access-7	Truck, Bottom Dump, 21cy, 30T	Asphalt from Sacramento	6	231	0.6	364	61	Lambert Road to/from Sacramento	19	38	Diesel Tier 4		
LN0-C&E Access-8	Truck, Flatbed, 10T, Hwy	Paver, Crane, and two Rollers to and from Sacramento	2	5	0.6	8	4	Lambert Road to/from Sacramento	19	38	Diesel		
LN0-C&E Access-8	Truck, Bottom Dump, 21cy, 30T	Asphalt from Sacramento	8	231	0.6	364	46	Lambert Road to/from Sacramento	19	38	Diesel Tier 4		
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lot) — on the Construction Site													
LN0-C&E Access-1	CAT 730 30T, Articulated End Dump	Dumpers	5	283.32	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		1417	Diesel Tier 4 or Hybrid Diesel		

Employees Required to Lambert Rd - Central & Eastern
For Intake Access Road Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip
LRd-C&E Access -1	Operator G4 Dozer & Push Cat	94.44	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -1	Operator G2 Excavator 3.5 to 7.0	94.44	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -1	OPERATING ENGINEER FOREMAN	47.22	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -1	Teamster G3 ED 8-24cy, Water>7	566.64	10		Sacramento to/from Lambert Road	19
TOTAL LRd-C&E Access-1						
LRd-C&E Access -2	Laborer G1 Pipe layers	28.67	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -2	Laborer Foreman	7.17	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -2	Operator G3 BH-Loader>3/4cy	14.33	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -2	Teamster G1 Hwy ED<6cy, Flatbed	10.75	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -2	Teamster G2 Hwy ED 6-8cy, Water<7	3.58	10		Sacramento to/from Lambert Road	19
TOTAL LRd-C&E Access-2						
LRd-C&E Access -3	Laborer G1 Pipe layers	212.5	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -3	Laborer G1 Power Tamper	106.25	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -3	Operator G4 Loader <4.1cy	53.13	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -3	Teamster G2 Hwy ED 6-8cy, Water<7	106.25	10		Sacramento to/from Lambert Road	19
TOTAL LRd-C&E Access-3						
LRd-C&E Access -4	Laborer G3 Flagman	217.95	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -4	Operator G7 Roller, Compactor	108.98	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -4	OPERATING ENGINEER FOREMAN	108.98	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -4	Operator G4 Grade Check	108.98	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -4	Operator G2 Finish Blade	108.98	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -4	Operator G8 Generator	21.8	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -4	Teamster G2 Hwy ED 6-8cy, Water<7	108.98	10		Sacramento to/from Lambert Road	19
TOTAL LRd-C&E Access-4						
LRd-C&E Access -5	Laborer G2 General	245.57	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -5	Operator G5 Asphalt Roller	122.78	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -5	Operator G3 BH-Loader>3/4cy	61.39	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -5	OPERATING ENGINEER FOREMAN	61.39	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -5	Operator G4 Grade Check	61.39	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -5	Operator G5 Paver	61.39	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -5	Teamster G2 Hwy ED 6-8cy, Water<7	30.7	10		Sacramento to/from Lambert Road	19
TOTAL LRd-C&E Access-5						
LRd-C&E Access -6	Iron Worker-Rigger	170	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -6	Laborer G2 General	680	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -6	Operator G4a Boom truck<15 ton	170	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -6	Operator G3 BH-Loader>3/4cy	170	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -6	OPERATING ENGINEER FOREMAN	170	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -6	Teamster G3 Boom Truck	170	10		Sacramento to/from Lambert Road	19
TOTAL LRd-C&E Access-6						
LRd-C&E Access -7	Laborer G2 General	275.71	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -7	Operator G5 Asphalt Roller	137.85	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -7	Operator G3 BH-Loader>3/4cy	68.93	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -7	OPERATING ENGINEER FOREMAN	68.93	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -7	Operator G4 Grade Check	68.93	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -7	Operator G5 Paver	68.93	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -7	Teamster G2 Hwy ED 6-8cy, Water<7	34.46	10		Sacramento to/from Lambert Road	19
TOTAL LRd-C&E Access-7						
LRd-C&E Access -8	Laborer G2 General	275.71	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -8	Operator G5 Asphalt Roller	137.85	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -8	Operator G3 BH-Loader>3/4cy	68.93	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -8	OPERATING ENGINEER FOREMAN	68.93	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -8	Operator G4 Grade Check	68.93	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -8	Operator G5 Paver	68.93	10		Sacramento to/from Lambert Road	19
LRd-C&E Access -8	Teamster G2 Hwy ED 6-8cy, Water<7	34.46	10		Sacramento to/from Lambert Road	19
TOTAL LRd-C&E Access-8						

Marine Inventory for Lambert Rd - Central & Eastern
For Intake Access Road Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Lambert Rd - Central & Eastern
For Intake Access Road Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

Helicopter Inventory for Lambert Rd - Central & Eastern

For Intake Access Road Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Lambert Rd - Central & Eastern
For Intake Access Road Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

[illegible]

Demolition Assumptions for Lambert Rd - Central & Eastern

For Intake Access Road Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Hood-Franklin Park and Ride
For Intake Employees Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	HFPR -1	4/27/2026	7/31/2026	69	5	10
Embankment	HFPR -2	8/3/2026	8/13/2026	9	2	10
Culvert Pipe	HFPR -3	8/14/2026	8/19/2026	5	3	10
Subdrain System	HFPR -4	8/20/2026	8/25/2026	5	5	10
Road Base	HFPR -5	8/26/2026	10/6/2026	30	5	10
Asphalt Paving	HFPR -6	10/7/2026	11/23/2026	27	5	10
Electrical, Striping, and K-Rail Installation	HFPR -7	11/25/2026	11/27/2026	3	3	10

Acres **4.1**

Offroad Equipment (Fossil Fuel) Inventory for Hood-Franklin Park and Ride
For Intake Employees Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
HFPR -1	CAT D6LGPDozer w winch	Crawler Tractor	69.94	69	1	Diesel Tier 4 or Hybrid Dies	179		0.43	
HFPR -1	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	69.94	69	1	Diesel	384		0.38	
HFPR -2	CAT D6LGPDozer w winch	Crawler Tractor	7.75	9	1	Diesel Tier 4 or Hybrid Dies	179		0.43	
HFPR -2	Disk, Towed	Off-Highway Tractor	7.75	9	1	Diesel	140		0.44	
HFPR -2	CAT 14 M	Grader	3.87	9	0	Diesel	274		0.41	
HFPR -2	Water Pump, 4" Diesel	Pumps	0.93	9	0	Diesel	10		0.74	
HFPR -2	CAT 815, Roller	Roller	7.75	9	1	Diesel	170		0.38	
HFPR -3	Air Compressor 375 cfm	Air Compressor	4.02	5	1	Diesel Tier 4	122		0.48	
HFPR -3	CAT LOADER/HOE 416 E	Rubber Tired Loader	8.03	5	2	Diesel	78		0.36	
HFPR -3	Compactor, Plate, 22"w x 35"	Plate Compactor	4.02	5	1	Diesel	8.5		0.43	
HFPR -4	CAT LOADER/HOE 416 E	Rubber Tired Loader	0.9	5	0	Diesel	78		0.36	
HFPR -4	Compactor, Trench Roller, Vib 32"w	Roller	1.81	5	0	Diesel	20		0.38	
HFPR -5	CAT 14 M	Grader	31.52	30	1	Diesel	274		0.41	
HFPR -5	Water Pump, 4" Diesel	Pumps	31.52	30	1	Diesel	10		0.74	
HFPR -5	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	31.52	30	1	Diesel	156		0.38	
HFPR -6	CAT LOADER/HOE 416 E	Rubber Tired Loader	35.75	27	1	Diesel	78		0.36	
HFPR -6	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	35.75	27	1	Diesel or Hybrid	224		0.42	
HFPR -6	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	35.75	27	1	Diesel or Hybrid	137		0.38	
HFPR -6	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	35.75	27	1	Diesel or Hybrid	133		0.38	
HFPR -7	CAT LOADER/HOE 416 E	Rubber Tired Loader	2.89	3	1	Diesel	78		0.36	

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Hood-Franklin Park and Ride
For Intake Employees Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
HFPR -2	Light Plant, 4 lite, 1000w, Tower/Mast	31 hour	9 days		

Vehicle Inventory for Hood-Franklin Park and Ride
For Intake Employees Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Vehicle	Primary Trip Purpose/Location (within)	# day	Vehicle Hours	Hours/Trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day)
Vehicle Use on Paved Roads --- and Not on Construction Site												
HFPR-1	Pickup, 1/2T, 2wd	Materials from Sacramento	69	35	1.2	30	0	Hood-Franklin PR to/from Sacramento	35	70	Hybrid Gasoline	
HFPR-1	Truck, End Dump, 10-13cy, Hwy	Materials from Sacramento	69	210	1.2	180	3	Hood-Franklin PR to/from Sacramento	35	70	Diesel	
HFPR-1	Truck, Water, 4 mgal, Hwy	Water from Sacramento	69	1	1.2	1	1	Hood-Franklin PR to/from Sacramento	35	70	Diesel	
HFPR-1	Truck, End Dump, 10-13cy, Hwy	Materials from Sacramento	69	20	1.2	17	0	Hood-Franklin PR to/from Sacramento	35	70	Diesel	
HFPR-1	Truck, Flatbed, 10T, Hwy	Crawler Tractor from Sacramento	2	1	1.2	1	0.5	Hood-Franklin PR to/from Sacramento	35	70	Diesel	
HFPR-1	Truck, Flatbed, 10T, Hwy	Excavator to and from Sacramento	2	2	1.2	2	1.0	Hood-Franklin PR to/from Sacramento	35	70	Diesel	
HFPR-2	Pickup, 1/2T, 2wd	Materials from Sacramento	9	8	1.2	7	1	Hood-Franklin PR to/from Sacramento	35	70	Hybrid Gasoline	
HFPR-2	Truck, Water, 4 mgal, Hwy	Water from Sacramento	9	12	1.2	10	1	Hood-Franklin PR to/from Sacramento	35	70	Diesel	
HFPR-2	Truck, End Dump, 10-13cy, Hwy	Gravel from Sacramento	9	1745	1.2	1496	21	Hood-Franklin PR to/from Sacramento	35	70	Diesel	
HFPR-2	Truck, Flatbed, 10T, Hwy	Grader from Sacramento	2	1	1.2	1	0.5	Hood-Franklin PR to/from Sacramento	35	70	Diesel	
HFPR-2	Truck, Flatbed, 10T, Hwy	Crawler Tractor to Sacramento	2	1	1.2	1	0.5	Hood-Franklin PR to/from Sacramento	35	70	Diesel	
HFPR-2	Truck, Flatbed, 10T, Hwy	Tractor and Roller to and from Sacramento	2	2	1.2	2	1.0	Hood-Franklin PR to/from Sacramento	35	70	Diesel	
HFPR-3	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	5	4	1.2	3	1	Hood-Franklin PR to/from Sacramento	35	70	Diesel	
HFPR-3	Truck, End Dump, 10-13cy, Hwy	Gravel from Sacramento	5	8	1.2	7	21	Hood-Franklin PR to/from Sacramento	35	70	Diesel	
HFPR-3	Truck, Flatbed, 10T, Hwy	Loader from Sacramento	1	1	1.2	1	1.0	Hood-Franklin PR to/from Sacramento	35	70	Diesel	
HFPR-3	Truck, Flatbed, 10T, Hwy	Plate Compactor to and from Sacramento	2	2	1.2	2	1.0	Hood-Franklin PR to/from Sacramento	35	70	Diesel	
HFPR-4	Truck, End Dump, 10-13cy, Hwy	Materials from Sacramento	5	2	1.2	2	0.3	Hood-Franklin PR to/from Sacramento	35	70	Diesel	
HFPR-4	Truck, End Dump, 10-13cy, Hwy	Gravel from Sacramento	5	4	1.2	3	21	Hood-Franklin PR to/from Sacramento	35	70	Diesel	
HFPR-4	Truck, Flatbed, 10T, Hwy	Trench Roller to and from Sacramento	2	2	1.2	2	1.0	Hood-Franklin PR to/from Sacramento	35	70	Diesel	
HFPR-5	Pickup, 3/4T, 4wd	Materials from Sacramento	30	32	1.2	27	1	Hood-Franklin PR to/from Sacramento	35	70	Hybrid Gasoline	
HFPR-5	Truck, End Dump, 10-13cy, Hwy	Base Rock from Sacramento	30	4034	1.2	3458	21	Hood-Franklin PR to/from Sacramento	35	70	Diesel	
HFPR-5	Truck, Water, 4 mgal, Hwy	Water from Sacramento	30	29	1.2	25	1	Hood-Franklin PR to/from Sacramento	35	70	Diesel	
HFPR-5	Truck, Flatbed, 10T, Hwy	Grader to Sacramento	1	1	1.2	1	1.0	Hood-Franklin PR to/from Sacramento	35	70	Diesel	
HFPR-5	Truck, Flatbed, 10T, Hwy	Roller to and from Sacramento	2	2	1.2	2	1.0	Hood-Franklin PR to/from Sacramento	35	70	Diesel	
HFPR-6	Truck & Bottom Dump' 21cy' 30T	Asphalt, Hot Mix Delivered from Sacramento	30	2406	1.2	2062	69	Hood-Franklin PR to/from Sacramento	35	70	Diesel Tier 4	
HFPR-6	Ready-Mix Concrete Truck	Concrete for Base Parking Lot from Sacramento	30	45.5	1.2	39	1	Hood-Franklin PR to/from Sacramento	35	70	Diesel Tier 4	
HFPR-6	Truck, Water, 4 mgal, Hwy	Water from Sacramento	27	1	1.2	1	0.0	Hood-Franklin PR to/from Sacramento	35	70	Diesel	
HFPR-6	Truck, Flatbed, 10T, Hwy	Paver and Two Rollers to and from Sacramento	2	7	1.2	6	3.0	Hood-Franklin PR to/from Sacramento	35	70	Diesel	
HFPR-7	Boom Truck, 12.5 Tn Boom	Materials from Sacramento	3	3	1.2	2	1	Hood-Franklin PR to/from Sacramento	35	70	Diesel or Hybrid	
HFPR-7	Truck, Flatbed, 10T, Hwy	Loader to Sacramento	1	1	1.2	1	1.0	Hood-Franklin PR to/from Sacramento	35	70	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site												
HFPR-1	CAT 730 30T, Articulated End Dump	Driven on construction site	69	209.82	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1049	Diesel Tier 4 or Hybrid Diesel	
HFPR-2	Cat 10mmal w/Cat 770, 111HP	Driven on construction site	9	3.87	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		19	Diesel	

Employees Required to Hood-Franklin Park and Ride
For Intake Employees Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip
HFPR -1	Operator G4 Dozer & Push Cat	69.94	10		Sacramento to/from Hood-Franklin PR	32
HFPR -1	Operator G2 Excavator 3.5 to 7.0	69.94	10		Sacramento to/from Hood-Franklin PR	32
HFPR -1	OPERATING ENGINEER FOREMAN	34.97	10		Sacramento to/from Hood-Franklin PR	32
HFPR -1	Teamster G2 Hwy ED 6-8cy, Wate	209.82	10		Sacramento to/from Hood-Franklin PR	32
HFPR -1	Teamster G3 ED 8-24cy, Water>7	209.82	10		Sacramento to/from Hood-Franklin PR	32
TOTAL HFPR-1						
HFPR -2	Laborer G2 General	0.93	10		Sacramento to/from Hood-Franklin PR	32
HFPR -2	Operator G5 Compactor w-blade	7.75	10		Sacramento to/from Hood-Franklin PR	32
HFPR -2	Operator G4 Dozer & Push Cat	7.75	10		Sacramento to/from Hood-Franklin PR	32
HFPR -2	OPERATING ENGINEER FOREMAN	7.75	10		Sacramento to/from Hood-Franklin PR	32
HFPR -2	Operator G2 Finish Blade	3.87	10		Sacramento to/from Hood-Franklin PR	32
HFPR -2	Teamster G2 Hwy ED 6-8cy, Water<7	3.87	10		Sacramento to/from Hood-Franklin PR	32
HFPR -2	Teamster G3 ED 8-24cy, Water>7mg	3.87	10		Sacramento to/from Hood-Franklin PR	32
TOTAL HFPR-2						
HFPR -3	Laborer G1 Pipe layers	16.07	10		Sacramento to/from Hood-Franklin PR	32
HFPR -3	Laborer Foreman	4.02	10		Sacramento to/from Hood-Franklin PR	32
HFPR -3	Operator G3 BH-Loader>3/4cy	8.03	10		Sacramento to/from Hood-Franklin PR	32
HFPR -3	Teamster G1 Hwy ED<6cy, Flatbed	6.03	10		Sacramento to/from Hood-Franklin PR	32
HFPR -3	Teamster G2 Hwy ED 6-8cy, Water<7	2.01	10		Sacramento to/from Hood-Franklin PR	32
TOTAL HFPR-3						
HFPR -4	Laborer G1 Pipe layers	3.62	10		Sacramento to/from Hood-Franklin PR	32
HFPR -4	Laborer G1 Power Tamper	1.81	10		Sacramento to/from Hood-Franklin PR	32
HFPR -4	Operator G4 Loader <4.1cy	0.9	10		Sacramento to/from Hood-Franklin PR	32
HFPR -4	Teamster G2 Hwy ED 6-8cy, Water<7	1.81	10		Sacramento to/from Hood-Franklin PR	32
TOTAL HFPR-4						
HFPR -5	Laborer G3 Flagman	63.04	10		Sacramento to/from Hood-Franklin PR	32
HFPR -5	Operator G7 Roller, Compactor	31.52	10		Sacramento to/from Hood-Franklin PR	32
HFPR -5	OPERATING ENGINEER FOREMAN	31.52	10		Sacramento to/from Hood-Franklin PR	32
HFPR -5	Operator G4 Grade Check	31.52	10		Sacramento to/from Hood-Franklin PR	32
HFPR -5	Operator G2 Finish Blade	31.52	10		Sacramento to/from Hood-Franklin PR	32
HFPR -5	Operator G8 Generator	6.3	10		Sacramento to/from Hood-Franklin PR	32
HFPR -5	Teamster G2 Hwy ED 6-8cy, Water<7	31.52	10		Sacramento to/from Hood-Franklin PR	32
TOTAL HFPR-5						
HFPR -6	Laborer G2 General	142.99	10		Sacramento to/from Hood-Franklin PR	32
HFPR -6	Operator G5 Asphalt Roller	71.49	10		Sacramento to/from Hood-Franklin PR	32
HFPR -6	Operator G3 BH-Loader>3/4cy	35.75	10		Sacramento to/from Hood-Franklin PR	32
HFPR -6	OPERATING ENGINEER FOREMAN	35.75	10		Sacramento to/from Hood-Franklin PR	32
HFPR -6	Operator G4 Grade Check	35.75	10		Sacramento to/from Hood-Franklin PR	32
HFPR -6	Operator G5 Paver	35.75	10		Sacramento to/from Hood-Franklin PR	32
HFPR -6	Teamster G2 Hwy ED 6-8cy, Water<7	17.87	10		Sacramento to/from Hood-Franklin PR	32
TOTAL HFPR-6						
HFPR -7	Iron Worker-Rigger	2.89	10		Sacramento to/from Hood-Franklin PR	32
HFPR -7	Laborer G2 General	11.57	10		Sacramento to/from Hood-Franklin PR	32
HFPR -7	Operator G4a Boom truck<15 ton	2.89	10		Sacramento to/from Hood-Franklin PR	32
HFPR -7	Operator G3 BH-Loader>3/4cy	2.89	10		Sacramento to/from Hood-Franklin PR	32
HFPR -7	OPERATING ENGINEER FOREMAN	2.89	10		Sacramento to/from Hood-Franklin PR	32
HFPR -7	Teamster G3 Boom Truck	2.89	10		Sacramento to/from Hood-Franklin PR	32
TOTAL HFPR-7						

Marine Inventory for Hood-Franklin Park and Ride
For Intake Employees Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Hood-Franklin Park and Ride
For Intake Employees Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

Helicopter Inventory for Hood-Franklin Park and Ride

For Intake Employees Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Hood-Franklin Park and Ride
For Intake Employees Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

[illegible]

Demolition Assumptions for Hood-Franklin Park and Ride

For Intake Employees Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Hood-Franklin Road Overlay - Central & Eastern Access Road
For Intake Access Employee Van - Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	HFRd-C&E Overlay -1	11/24/2026	11/30/2026	5	5	10
Intermediate Overlay	HFRd-C&E Overlay -2	4/22/2030	4/29/2030	5	5	10
Final Overlay	HFRd-C&E Overlay -3	6/8/2037	6/16/2037	7	5	10
Acres	7.5					

Offroad Equipment (Fossil Fuel) Inventory for Hood-Franklin Road Overlay - Central & Eastern
For Intake Access Employee Van - Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
HFRd-C&E Overlay -1	CAT LOADER/HOE 416 E	Rubber Tired Loader	56.86	5	11	Diesel	78		0.36	
HFRd-C&E Overlay -1	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	56.86	5	11	Diesel or Hybrid	224		0.42	
HFRd-C&E Overlay -1	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	56.86	5	11	Diesel or Hybrid	137		0.38	
HFRd-C&E Overlay -1	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	56.86	5	11	Diesel or Hybrid	133		0.38	
HFRd-C&E Overlay -2	CAT LOADER/HOE 416 E	Rubber Tired Loader	56.86	5	11	Diesel	78		0.36	
HFRd-C&E Overlay -2	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	56.86	5	11	Diesel or Hybrid	224		0.42	
HFRd-C&E Overlay -2	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	56.86	5	11	Diesel or Hybrid	137		0.38	
HFRd-C&E Overlay -2	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	56.86	5	11	Diesel or Hybrid	133		0.38	
HFRd-C&E Overlay -3	CAT LOADER/HOE 416 E	Rubber Tired Loader	56.86	7	8	Diesel	78		0.36	
HFRd-C&E Overlay -3	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	56.86	7	8	Diesel or Hybrid	224		0.42	
HFRd-C&E Overlay -3	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	56.86	7	8	Diesel or Hybrid	137		0.38	
HFRd-C&E Overlay -3	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	56.86	7	8	Diesel or Hybrid	133		0.38	

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Hood-Franklin Road Overlay - Central & Eastern
For Intake Access Employee Van - Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
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NOT NEEDED

Vehicle Inventory for Hood-Franklin Road Overlay - Central & Eastern
For Intake Access Employee Van - Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/Trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (mpg) (if known)	Fuel (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site													
HFrd-C&E Overlay -1	Truck, Water, 4 mgal, Hwy	Water From Sacramento	5	3	0.1	19	4	Hood-Franklin Road to/from Sacramento	4	8	Diesel		
HFrd-C&E Overlay -1	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	5	1	0.6	1	0.2	Hood-Franklin Road to/from Sacramento	17	34	Diesel		
HFrd-C&E Overlay -1	Truck & Bottom Dump' 25cy' 30T	Asphalt from Sacramento	5	171	0.6	301	60	Hood-Franklin Road to/from Sacramento	17	34	Diesel Tier 4		
HFrd-C&E Overlay -1	Truck, Flatbed, 10T, Hwy	Paver and two Rollers to and from Sacramento	2	3	0.6	6	3.0	Hood-Franklin Road to/from Sacramento	17	34	Diesel		
HFrd-C&E Overlay -2	Truck, Water, 4 mgal, Hwy	Water From Sacramento	5	3	0.1	19	4	Hood-Franklin Road to/from Sacramento	4	8	Diesel		
HFrd-C&E Overlay -2	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	5	1	0.6	1	0.2	Hood-Franklin Road to/from Sacramento	17	34	Diesel		
HFrd-C&E Overlay -2	Truck & Bottom Dump' 25cy' 30T	Asphalt from Sacramento	5	171	0.6	301	60	Hood-Franklin Road to/from Sacramento	17	34	Diesel Tier 4		
HFrd-C&E Overlay -2	Truck, Flatbed, 10T, Hwy	Paver and two Rollers to and from Sacramento	2	3	0.6	6	3.0	Hood-Franklin Road to/from Sacramento	17	34	Diesel		
HFrd-C&E Overlay -3	Truck, Water, 4 mgal, Hwy	Water From Sacramento	7	3	0.1	19	3	Hood-Franklin Road to/from Sacramento	4	8	Diesel		
HFrd-C&E Overlay -3	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	7	1	0.6	1	0.1	Hood-Franklin Road to/from Sacramento	17	34	Diesel		
HFrd-C&E Overlay -3	Truck & Bottom Dump' 25cy' 30T	Asphalt from Sacramento	7	171	0.6	301	43	Hood-Franklin Road to/from Sacramento	17	34	Diesel Tier 4		
HFrd-C&E Overlay -3	Truck, Flatbed, 10T, Hwy	Paver and two Rollers to and from Sacramento	2	3	0.6	6	3.0	Hood-Franklin Road to/from Sacramento	17	34	Diesel		

Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site

For Intake Access Employee Van - Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Employee Type	Hours	# Work Hours/Day	Trip Location (to/from)	Commute Miles/ One-way Trip
HFRd-C&E Overlay -1	Laborer G2 General	227.45	10	Sacramento to/from Hood-Franklin Road	17
HFRd-C&E Overlay -1	Operator G5 Asphalt Roller	113.73	10	Sacramento to/from Hood-Franklin Road	17
HFRd-C&E Overlay -1	Operator G3 BH-Loader>3/4cy	56.86	10	Sacramento to/from Hood-Franklin Road	17
HFRd-C&E Overlay -1	OPERATING ENGINEER FOREMAN	56.86	10	Sacramento to/from Hood-Franklin Road	17
HFRd-C&E Overlay -1	Operator G4 Grade Check	56.86	10	Sacramento to/from Hood-Franklin Road	17
HFRd-C&E Overlay -1	Operator G5 Paver	56.86	10	Sacramento to/from Hood-Franklin Road	17
HFRd-C&E Overlay -1	Teamster G2 Hwy ED 6-8cy, Wate	28.43	10	Sacramento to/from Hood-Franklin Road	17
TOTAL HFRd-C&E Overlay-1					
HFRd-C&E Overlay -2	Laborer G2 General	227.45	10	Sacramento to/from Hood-Franklin Road	17
HFRd-C&E Overlay -2	Operator G5 Asphalt Roller	113.73	10	Sacramento to/from Hood-Franklin Road	17
HFRd-C&E Overlay -2	Operator G3 BH-Loader>3/4cy	56.86	10	Sacramento to/from Hood-Franklin Road	17
HFRd-C&E Overlay -2	OPERATING ENGINEER FOREMAN	56.86	10	Sacramento to/from Hood-Franklin Road	17
HFRd-C&E Overlay -2	Operator G4 Grade Check	56.86	10	Sacramento to/from Hood-Franklin Road	17
HFRd-C&E Overlay -2	Operator G5 Paver	56.86	10	Sacramento to/from Hood-Franklin Road	17
HFRd-C&E Overlay -2	Teamster G2 Hwy ED 6-8cy, Water<7	28.43	10	Sacramento to/from Hood-Franklin Road	17
TOTAL HFRd-C&E Overlay-2					
HFRd-C&E Overlay -3	Laborer G2 General	227.45	10	Sacramento to/from Hood-Franklin Road	17
HFRd-C&E Overlay -3	Operator G5 Asphalt Roller	113.73	10	Sacramento to/from Hood-Franklin Road	17
HFRd-C&E Overlay -3	Operator G3 BH-Loader>3/4cy	56.86	10	Sacramento to/from Hood-Franklin Road	17
HFRd-C&E Overlay -3	OPERATING ENGINEER FOREMAN	56.86	10	Sacramento to/from Hood-Franklin Road	17
HFRd-C&E Overlay -3	Operator G4 Grade Check	56.86	10	Sacramento to/from Hood-Franklin Road	17
HFRd-C&E Overlay -3	Operator G5 Paver	56.86	10	Sacramento to/from Hood-Franklin Road	17
HFRd-C&E Overlay -3	Teamster G2 Hwy ED 6-8cy, Water<7	28.43	10	Sacramento to/from Hood-Franklin Road	17
TOTAL HFRd-C&E Overlay-3					

Marine Inventory for Hood-Franklin Road Overlay - Central & Eastern
For Intake Access Employee Van - Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Hood-Franklin Road Overlay - Central & Eastern
For Intake Access Employee Van - Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

Helicopter Inventory for Hood-Franklin Road Overlay - Central & Eastern

For Intake Access Employee Van - Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

For Intake Access Employee Van - Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

[illegible]

Demolition Assumptions for Hood-Franklin Road Overlay - Central & Eastern
For Intake Access Employee Van - Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for SR160 Overlay - Central & Eastern Access Road
Intakes Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Initial Overlay	SR160 C&E Overlay -1	6/24/2027	7/14/2027	15	5	10
Intermediate Overlay	SR160 C&E Overlay -2	7/23/2030	8/12/2030	20	5	10
Final Overlay	SR160 C&E Overlay -3	8/26/2037	9/16/2037	20	5	10

Offroad Equipment (Fossil Fuel) Inventory for SR160 Overlay - Central & Eastern
Intakes Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
SR160 C&E Overlay -1	CAT LOADER/HOE 416 E	Rubber Tired Loader	147.72	15	10	Diesel	78		0.36	
SR160 C&E Overlay -1	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	147.72	15	10	Diesel or Hybrid	224		0.42	
SR160 C&E Overlay -1	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	147.72	15	10	Diesel or Hybrid	137		0.38	
SR160 C&E Overlay -1	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	147.72	15	10	Diesel or Hybrid	133		0.38	
SR160 C&E Overlay -2	CAT LOADER/HOE 416 E	Rubber Tired Loader	147.72	20	7	Diesel	78		0.36	
SR160 C&E Overlay -2	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	147.72	20	7	Diesel or Hybrid	224		0.42	
SR160 C&E Overlay -2	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	147.72	20	7	Diesel or Hybrid	137		0.38	
SR160 C&E Overlay -2	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	147.72	20	7	Diesel or Hybrid	133		0.38	
SR160 C&E Overlay -3	CAT LOADER/HOE 416 E	Rubber Tired Loader	147.72	20	7	Diesel	78		0.36	
SR160 C&E Overlay -3	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	147.72	20	7	Diesel or Hybrid	224		0.42	
SR160 C&E Overlay -3	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	147.72	20	7	Diesel or Hybrid	137		0.38	
SR160 C&E Overlay -3	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	147.72	20	7	Diesel or Hybrid	133		0.38	

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for SR160 Overlay - Central & Eastern
Intakes Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
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NOT NEEDED

Vehicle Inventory for SR160 Overlay - Central & Eastern
Intakes Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/Trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (mpg) (if known)	Fuel (gal/day) (if known)
Vehicle Use on Paved Roads — and Not on Construction Site													
SR160 C&E Overlay -1	Truck, Flatbed, 10T, Hwy	Paver, Loader, and two Rollers to and from Sacramento	2	5	0.6	8	4.0	SR160 at Intakes to/from Sacramento	19	38	Diesel		
SR160 C&E Overlay -1	Truck, Water, 4 mgal, Hwy	Water from Sacramento	15	7	0.4	15	1	SR160 at Intakes to/from Sacramento	13	26	Diesel		
SR160 C&E Overlay -1	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	15	1	0.6	1	0	SR160 at Intakes to/from Sacramento	19	38	Diesel		
SR160 C&E Overlay -1	Truck & Bottom Dump* 21cy* 30T	Asphalt from Sacramento	15	494	0.6	780	52	SR160 at Intakes to/from Sacramento	19	38	Diesel Tier 4		
SR160 C&E Overlay -2	Truck, Flatbed, 10T, Hwy	Paver, Loader, and two Rollers to and from Sacramento	2	5	0.6	8	4.0	SR160 at Intakes to/from Sacramento	19	38	Diesel		
SR160 C&E Overlay -2	Truck, Water, 4 mgal, Hwy	Water from Sacramento	20	9	0.4	20	1	SR160 at Intakes to/from Sacramento	13	26	Diesel		
SR160 C&E Overlay -2	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	20	1	0.6	1	0	SR160 at Intakes to/from Sacramento	19	38	Diesel		
SR160 C&E Overlay -2	Truck & Bottom Dump* 21cy* 30T	Asphalt from Sacramento	20	494	0.6	780	39	SR160 at Intakes to/from Sacramento	19	38	Diesel Tier 4		
SR160 C&E Overlay -3	Truck, Flatbed, 10T, Hwy	Paver, Loader, and two Rollers to and from Sacramento	2	5	0.6	8	4	SR160 at Intakes to/from Sacramento	19	38	Diesel		
SR160 C&E Overlay -3	Truck, Water, 4 mgal, Hwy	Water from Sacramento	20	9	0.4	20	1	SR160 at Intakes to/from Sacramento	13	26	Diesel		
SR160 C&E Overlay -3	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	20	1	0.6	1	0	SR160 at Intakes to/from Sacramento	19	38	Diesel		
SR160 C&E Overlay -3	Truck & Bottom Dump* 21cy* 30T	Asphalt from Sacramento	20	494	0.6	780	39	SR160 at Intakes to/from Sacramento	19	38	Diesel Tier 4		

Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) — on the Construction Site

Employees Required to SR160 Overlay - Central & Eastern
Intakes Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Employee Type	Hours	# Work Hours/Day	Trip Location (to/from)	Commute Miles/ One-way Trip
SR160 C&E Overlay -1	Laborer G2 General	245.57	10	Sacramento to/from SR160 at Intakes	19
SR160 C&E Overlay -1	Operator G5 Asphalt Roller	245.57	10	Sacramento to/from SR160 at Intakes	19
SR160 C&E Overlay -1	Operator G3 BH-Loader>3/4cy	245.57	10	Sacramento to/from SR160 at Intakes	19
SR160 C&E Overlay -1	OPERATING ENGINEER FOREMAN	245.57	10	Sacramento to/from SR160 at Intakes	19
SR160 C&E Overlay -1	Operator G4 Grade Check	245.57	10	Sacramento to/from SR160 at Intakes	19
SR160 C&E Overlay -1	Operator G5 Paver	245.57	10	Sacramento to/from SR160 at Intakes	19
SR160 C&E Overlay -1	Teamster G2 Hwy ED 6-8cy, Water<7	245.57	10	Sacramento to/from SR160 at Intakes	19
TOTAL SR160 C&E Overlay-1					
SR160 C&E Overlay -2	Laborer G2 General	590.86	10	Sacramento to/from SR160 at Intakes	19
SR160 C&E Overlay -2	Operator G5 Asphalt Roller	295.43	10	Sacramento to/from SR160 at Intakes	19
SR160 C&E Overlay -2	Operator G3 BH-Loader>3/4cy	147.72	10	Sacramento to/from SR160 at Intakes	19
SR160 C&E Overlay -2	OPERATING ENGINEER FOREMAN	147.72	10	Sacramento to/from SR160 at Intakes	19
SR160 C&E Overlay -2	Operator G4 Grade Check	147.72	10	Sacramento to/from SR160 at Intakes	19
SR160 C&E Overlay -2	Operator G5 Paver	147.72	10	Sacramento to/from SR160 at Intakes	19
SR160 C&E Overlay -2	Teamster G2 Hwy ED 6-8cy, Water<7	73.86	10	Sacramento to/from SR160 at Intakes	19
TOTAL SR160 C&E Overlay-2					
SR160 C&E Overlay -3	Laborer G2 General	590.86	10	Sacramento to/from SR160 at Intakes	19
SR160 C&E Overlay -3	Operator G5 Asphalt Roller	295.43	10	Sacramento to/from SR160 at Intakes	19
SR160 C&E Overlay -3	Operator G3 BH-Loader>3/4cy	147.72	10	Sacramento to/from SR160 at Intakes	19
SR160 C&E Overlay -3	OPERATING ENGINEER FOREMAN	147.72	10	Sacramento to/from SR160 at Intakes	19
SR160 C&E Overlay -3	Operator G4 Grade Check	147.72	10	Sacramento to/from SR160 at Intakes	19
SR160 C&E Overlay -3	Operator G5 Paver	147.72	10	Sacramento to/from SR160 at Intakes	19
SR160 C&E Overlay -3	Teamster G2 Hwy ED 6-8cy, Water<7	73.86	10	Sacramento to/from SR160 at Intakes	19
TOTAL SR160 C&E Overlay-3					

Marine Inventory for SR160 Overlay - Central & Eastern
Intakes Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for SR160 Overlay - Central & Eastern
Intakes Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

Helicopter Inventory for SR160 Overlay - Central & Eastern

Intakes Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for SR160 Overlay - Central & Eastern
Intakes Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
SR160 C&E Overlay -1		15								631485	42099
SR160 C&E Overlay -2		20							631485	31574	
SR160 C&E Overlay -3		20							631485	31574	

**Demolition Assumptions for SR160 Overlay - Central & Eastern
Intakes Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

**Construction Schedule for Intake 3_3000 cfs_Central & Eastern
Options 1B, 2B, 7B, 8B, 9B, 10B - Tee Screens**

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Development of Initial Intake Box Culverts & Gantry Crane	Intake 3 - Central & Eastern - 1	1/1/2026	3/29/2026	64	5	10
Initial Concrete Placement for Sedimentation Basin	Intake 3 - Central & Eastern - 2	1/1/2026	4/29/2033	1677	5	10
Initial Temporary Buildings	Intake 3 - Central & Eastern - 3	2/11/2030	12/13/2030	220	5	10
Phase 1 Sitework	Intake 3 - Central & Eastern - 4	6/24/2030	6/11/2031	252	5	10
Use of Temporary Buildings	Intake 3 - Central & Eastern - 5	2/11/2030	11/27/2036	1772	5	10
Initial Roads and Move SR 160	Intake 3 - Central & Eastern - 6	5/2/2031	6/6/2031	26	5	10
Phase 2 Sitework - Foundations	Intake 3 - Central & Eastern - 7	6/6/2031	2/15/2033	446	5	10
Install Cofferdam	Intake 3 - Central & Eastern - 8	6/6/2031	12/22/2031	144	5	10
Construct Reception Shaft	Intake 3 - Central & Eastern - 9	8/27/2031	5/24/2032	195	5	10
Place Tremie Seal in Reception Shaft	Intake 3 - Central & Eastern - 10	5/25/2032	5/27/2032	2	2	24
Dewater Reception Shaft	Intake 3 - Central & Eastern - 11	5/28/2032	6/3/2032	5	5	10
Assemble Reception Shaft	Intake 3 - Central & Eastern - 12	6/4/2032	9/2/2032	65	5	10
Intake Structure within Cofferdam	Intake 3 - Central & Eastern - 13	12/31/2031	11/30/2033	500	5	10
Intake Connections and Gates	Intake 3 - Central & Eastern - 14	1/22/2032	1/9/2034	513	5	10
Piles and Concrete in Sedimentation Basin	Intake 3 - Central & Eastern - 15	5/17/2032	3/4/2033	210	5	10
Move SR 160 to Final Location	Intake 3 - Central & Eastern - 16	12/28/2032	2/1/2033	26	5	10
Finish Box Culverts	Intake 3 - Central & Eastern - 17	2/15/2033	3/1/2033	9	5	10
Basin Embankments, Gates, Buildings, and Substation	Intake 3 - Central & Eastern - 18	3/1/2033	3/29/2034	281	5	10
Sedimentation Basin Mechanical and Electrical	Intake 3 - Central & Eastern - 19	4/29/2033	3/21/2034	234	5	10
Install Fish Screen, Appurtenant Facilities, Log Boom, and Rip Rap	Intake 3 - Central & Eastern - 20	6/27/2033	7/20/2034	278	5	10
Remove Cofferdam	Intake 3 - Central & Eastern - 21	2/24/2034	9/21/2034	129	5	10
Finish Site Work, Sedimentation Basin Curtain, and Fencing	Intake 3 - Central & Eastern - 22	2/19/2035	7/22/2036	371	5	10
Finish Sedimentation Basin	Intake 3 - Central & Eastern - 23	8/1/2036	10/2/2036	45	5	10
Finish Intake Exteriors	Intake 3 - Central & Eastern - 24	10/3/2036	11/27/2036	39	5	10
Site Restoration	Intake 3 - Central & Eastern - 25	11/28/2036	3/2/2037	69	5	10

Total Site Acres

240

Vehicle Inventory for Intake 3_3000 cfs_Central & Eastern
Options 1B, 2B, 7B, 8B, 9B, 10B

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Code	Equipment Name	General Equipment C	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
Intake 3 - Central & Eastern - 1	400A Diesel Welder, Trailer Mounted	Welders	130	64	2.0	Diesel	22	0.45		
Intake 3 - Central & Eastern - 1	Air Compressor 375 cfm	Air Compressor	130	64	2.0	Diesel Tier 4	122	0.48		
Intake 3 - Central & Eastern - 1	Grove RT Crane 30T	Crane	240	64	3.8	Diesel	160	0.29		
Intake 3 - Central & Eastern - 1	Manitowoc 555 150T, 250' Boom	Crane	32.5	64	0.5	Diesel	760	0.29		
Intake 3 - Central & Eastern - 2	400A Diesel Welder, Trailer Mounted	Welders	2010	1677	1.2	Diesel	22	0.45		
Intake 3 - Central & Eastern - 2	Air Compressor 900 cfm	Air Compressor	4020	1677	2.4	Diesel Tier 4	300	0.48		
Intake 3 - Central & Eastern - 2	Concrete Vibrator, 2"	Other Construction Eq	6030	1677	3.6	Gasoline	3	0.42		
Intake 3 - Central & Eastern - 2	Grove RT Crane 55T, 247 hp	Crane	2010	1677	1.2	Diesel	247	0.29		
Intake 3 - Central & Eastern - 2	Manitowoc 555 150T, 250' Boom	Crane	6030	1677	3.6	Diesel	760	0.29		
Intake 3 - Central & Eastern - 2	Portable, 90 Kw, Diesel, 158HP	Welders	2010	1677	1.2	Diesel Tier 4	158	0.45		
Intake 3 - Central & Eastern - 3	400A Diesel Welder, Trailer Mounted	Welders	41.67	220	0.2	Diesel	22	0.45		
Intake 3 - Central & Eastern - 3	Air Compressor 185 cfm	Air Compressor	2646.11	220	12.0	Diesel Tier 4	49	0.48		
Intake 3 - Central & Eastern - 3	Boom Truck, 12.5 Tn Boom	Crane	2475.69	220	11.3	Diesel or Hybrid	100	0.29		
Intake 3 - Central & Eastern - 3	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loader	266.67	220	1.2	Diesel	110	0.36		
Intake 3 - Central & Eastern - 3	CAT 12 M	Grader	3.2	220	0.0	Diesel	173	0.41		
Intake 3 - Central & Eastern - 3	CAT 14 M	Grader	201.42	220	0.9	Diesel	274	0.41		
Intake 3 - Central & Eastern - 3	Cat 613 C Self Loading Scraper	Scraper	120	220	0.5	Diesel	187	0.48		
Intake 3 - Central & Eastern - 3	CAT 631G Scraper, Conventional	Scraper	232.66	220	1.1	Diesel	515	0.48		
Intake 3 - Central & Eastern - 3	CAT 815, Roller	Roller	77.55	220	0.4	Diesel	170	0.38		
Intake 3 - Central & Eastern - 3	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	275	220	1.3	Diesel or Hybrid	130	0.36		
Intake 3 - Central & Eastern - 3	CAT 962 H Wheel Loader	Rubber Tired Loader	102.64	220	0.5	Diesel	230	0.36		
Intake 3 - Central & Eastern - 3	CAT CS-74, Roller, 17 tn, 156 HP	Rollers	170.97	220	0.8	Diesel	156	0.38		
Intake 3 - Central & Eastern - 3	CAT D3 LGP, Dozer	Crawler Tractor	21.18	220	0.1	Diesel or Hybrid	76	0.43		
Intake 3 - Central & Eastern - 3	CAT D6LGPDozer w winch	Crawler Tractor	137.55	220	0.6	Diesel or Hybrid	179	0.43		
Intake 3 - Central & Eastern - 3	CAT D9R, Dozer w ripper	Crawler Tractor	77.55	220	0.4	Diesel	410	0.43		
Intake 3 - Central & Eastern - 3	CAT LOADER/HOE 416 E	Rubber Tired Loaders	4662.45	220	21.2	Diesel	78	0.36		
Intake 3 - Central & Eastern - 3	Compactor, Plate, 22"x x 35"	Plate Compactors	133.33	220	0.6	Diesel	8.5	0.43		
Intake 3 - Central & Eastern - 3	Compactor, Trench Roller, Vib 32"xw	Rollee	13.13	220	0.1	Diesel	20	0.38		
Intake 3 - Central & Eastern - 3	Concrete Vibrator, 2"	Other Construction Eq	41.67	220	0.2	Gasoline	3	0.42		
Intake 3 - Central & Eastern - 3	Disk, Towed	Off Highway Tractor	4723.85	220	21.5	Diesel	140	0.44		
Intake 3 - Central & Eastern - 3	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	2323.15	220	10.6	Diesel	80	0.44		
Intake 3 - Central & Eastern - 3	Grove RT Crane 55T, 247 hp	Crane	443.33	220	2.0	Diesel	247	0.29		
Intake 3 - Central & Eastern - 3	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	12.85	220	0.1	Diesel	345	0.38		
Intake 3 - Central & Eastern - 3	Light Plant, 4 lite, 1000w, Tower/Mast	Generator	310.2	220	1.4	Diesel	12	0.74		
Intake 3 - Central & Eastern - 3	Portable, 20 Kw, Diesel, 36HP	Welders	41.67	220	0.2	Diesel Tier 4	36	0.45		
Intake 3 - Central & Eastern - 3	Water Pump, 4" Diesel	Pumps	69.32	220	0.3	Diesel	10	0.74		
Intake 3 - Central & Eastern - 3	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	2646.11	220	12.0	Diesel	75	0.31		
Intake 3 - Central & Eastern - 3	Water Pump,3" Gas, Diaphragm	Pumps	41.67	220	0.2	Gasoline	10	0.74		
Intake 3 - Central & Eastern - 4	Air Compressor 185 cfm	Air Compressor	200	252	0.8	Diesel Tier 4	49	0.48		
Intake 3 - Central & Eastern - 4	Air Compressor 375 cfm	Air Compressor	7041	252	51.9	Diesel Tier 4	122	0.48		
Intake 3 - Central & Eastern - 4	Boom Truck, 12.5 Tn Boom	Crane	400	252	1.6	Diesel or Hybrid	100	0.29		
Intake 3 - Central & Eastern - 4	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loader	7041	252	51.9	Diesel	110	0.36		
Intake 3 - Central & Eastern - 4	CAT 12 M	Grader	8.85	252	0.0	Diesel	173	0.41		
Intake 3 - Central & Eastern - 4	CAT 14 M	Grader	1711.58	252	6.8	Diesel	274	0.41		
Intake 3 - Central & Eastern - 4	CAT 311, 0.69 cy, 70 hp	Excavator	200	252	0.8	Diesel	70	0.38		
Intake 3 - Central & Eastern - 4	Cat 613 C Self Loading Scraper	Scraper	2807.63	252	11.1	Diesel	187	0.48		
Intake 3 - Central & Eastern - 4	CAT 825, Roller	Roller	1344.17	252	5.3	Diesel	315	0.38		
Intake 3 - Central & Eastern - 4	CAT 962 H Wheel Loader	Rubber Tired Loader	17.11	252	0.1	Diesel	230	0.36		
Intake 3 - Central & Eastern - 4	CAT CS-74, Roller, 17 tn, 156 HP	Rollers	181.56	252	0.7	Diesel	156	0.38		
Intake 3 - Central & Eastern - 4	CAT D3 LGP, Dozer	Crawler Tractor	371.7	252	1.5	Diesel or Hybrid	76	0.43		
Intake 3 - Central & Eastern - 4	CAT D6LGPDozer w winch	Crawler Tractor	3268.19	252	13.0	Diesel or Hybrid	179	0.43		
Intake 3 - Central & Eastern - 4	CAT IT28H, 10640 LB Tool Carrier	Rubber Tired Loaders	571.04	252	2.3	Diesel	145	0.36		
Intake 3 - Central & Eastern - 4	Disk, Towed	Off Highway Tractor	2634.86	252	10.5	Diesel	140	0.44		
Intake 3 - Central & Eastern - 4	DMM Deep Soil Mixer, 3 Shaft, 808 HP	Bore Drill Rigs	7056	252	28	Diesel	808	0.5		
Intake 3 - Central & Eastern - 4	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	7056	252	28	Diesel	500	0.34		
Intake 3 - Central & Eastern - 4	Grove RT Crane 30T	Crane	7056	252	28	Diesel	160	0.29		
Intake 3 - Central & Eastern - 4	Grove RT Crane 15T, 100hp	Crane	200	252	0.8	Diesel	100	0.29		
Intake 3 - Central & Eastern - 4	Komatsu PC 600LC-8, 4.25 cy, 394 hp	Excavator	1379.55	252	5.5	Diesel	384	0.38		
Intake 3 - Central & Eastern - 4	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	400	252	1.6	Diesel	75	0.31		
Intake 3 - Central & Eastern - 4	Portable, 90 Kw, Diesel, 158HP	Welders	740.52	252	2.9	Diesel Tier 4	158	0.74		
Intake 3 - Central & Eastern - 4	Water Pump, 4" Diesel	Pumps	740.52	252	2.9	Diesel	10	0.74		
Intake 3 - Central & Eastern - 4	Water Pump,3" Gas, Diaphragm	Pumps	371.04	252	1.5	Gasoline	10	0.74		
Intake 3 - Central & Eastern - 4	Well Drill	Bore/Drill Rigs	724	252	2.9	Diesel	136	0.5		
Intake 3 - Central & Eastern - 5	CAT 12 M	Grader	1428	1772	0.8	Diesel	173	0.41		
Intake 3 - Central & Eastern - 5	CAT CS-74, Roller, 17 tn, 156 HP	Rollers	1428	1772	0.8	Diesel	156	0.38		
Intake 3 - Central & Eastern - 5	CAT LOADER/HOE 416 E	Rubber Tired Loaders	2856	1772	1.6	Diesel	78	0.36		
Intake 3 - Central & Eastern - 5	CAT Forklift 5,500 LB	Aerial Lift	9744.78	1772	5.5	Diesel	63	0.31		
Intake 3 - Central & Eastern - 5	Grove RT Crane 30T	Crane	9871.33	1772	5.6	Diesel	160	0.29		
Intake 3 - Central & Eastern - 6	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	98.19	26	4	Diesel or Hybrid	224	0.42		
Intake 3 - Central & Eastern - 6	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	98.19	26	4	Diesel or Hybrid	137	0.38		
Intake 3 - Central & Eastern - 6	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	98.19	26	4	Diesel or Hybrid	133	0.38		
Intake 3 - Central & Eastern - 6	Boom Truck, 12.5 Tn Boom	Crane	26.94	26	1.0	Diesel or Hybrid	100	0.29		
Intake 3 - Central & Eastern - 6	CAT 14 M	Grader	40.91	26	1.6	Diesel	274	0.41		
Intake 3 - Central & Eastern - 6	CAT 962 H Wheel Loader	Rubber Tired Loader	40.91	26	1.6	Diesel	230	0.36		
Intake 3 - Central & Eastern - 6	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	40.91	26	1.6	Diesel	158	0.38		
Intake 3 - Central & Eastern - 6	CAT LOADER/HOE 416 E	Rubber Tired Loaders	127.83	26	4.9	Diesel	78	0.36		
Intake 3 - Central & Eastern - 7	400A Diesel Welder, Trailer Mounted	Welders	93.3	446	0.2	Diesel	22	0.45		
Intake 3 - Central & Eastern - 7	Air Compressor 375 cfm	Air Compressor	16502	446	37	Diesel Tier 4	122	0.48		
Intake 3 - Central & Eastern - 7	Bobcat S630 Skid Steer Loader	Skid Loader	77.7	446	0.2	Diesel	74	0.37		
Intake 3 - Central & Eastern - 7	Brush Chipper, 18" Cap., Trailer Mtd. 173hp	Other Construction	48.6	446	0.1	Diesel	173	0.42		
Intake 3 - Central & Eastern - 7	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	16502	446	37	Diesel	110	0.36		
Intake 3 - Central & Eastern - 7	CAT 12 M	Grader	34	446	0.1	Diesel	173	0.41		
Intake 3 - Central & Eastern - 7	CAT 14 M	Grader	2472	446	5.5	Diesel	274	0.41		
Intake 3 - Central & Eastern - 7	CAT 320D, 1.56 cy, 153 hp	Excavator	48.6	446	0.1	Diesel	138	0.38		
Intake 3 - Central & Eastern - 7	Cat 613 C Self Loading Scraper	Scraper	4140	446	9.3	Diesel	187	0.48		
Intake 3 - Central & Eastern - 7	CAT 825, Roller	Roller	2223.3	446	5.0	Diesel	315	0.38		
Intake 3 - Central & Eastern - 7	CAT 950 H Wheel Loader	Rubber Tired Loaders	429.9	446	1.0	Diesel or Hybrid	130	0.36		
Intake 3 - Central & Eastern - 7	CAT 962 H Wheel Loader	Rubber Tired Loader	143.8	446	0.3	Diesel	230	0.36		
Intake 3 - Central & Eastern - 7	CAT 980 H Wheel Loader	Rubber Tired Loader	247.2	446	0.6	Diesel	393	0.36		
Intake 3 - Central & Eastern - 7	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	36.2	446	0.1	Diesel	158	0.38		
Intake 3 - Central & Eastern - 7	CAT CS-74, Roller, 17 tn, 156 HP	Rollers	143.8	446	0.3	Diesel	156	0.38		
Intake 3 - Central & Eastern - 7	CAT D3 LGP, Dozer	Crawler Tractor	19.4	446	0.0	Diesel or Hybrid	76	0.43		
Intake 3 - Central & Eastern - 7	CAT D6LGPDozer w winch	Crawler Tractor	6652.7	446	14.9	Diesel or Hybrid	179	0.43		
Intake 3 - Central & Eastern - 7	Disk, Towed	Off Highway Tractor	6060.7	446	13.6	Diesel	140	0.44		

Intake 3 - Central & Eastern - 7	DMM Deep Soil Mixer, 3 Shaft, 808 HP	Bore Drill Rigs	16502	446	37	Diesel	808	0.5
Intake 3 - Central & Eastern - 7	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	16502	446	37	Diesel	500	0.34
Intake 3 - Central & Eastern - 7	Grove RT Crane 30T	Crane	16502	446	37	Diesel	160	0.29
Intake 3 - Central & Eastern - 7	Grove RT Crane 55T, 247 hp	Crane	93.3	446	0.2	Diesel	247	0.29
Intake 3 - Central & Eastern - 7	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	2151.2	446	4.8	Diesel	384	0.38
Intake 3 - Central & Eastern - 7	Light Plant, 4 ltr, 1000w, Tower/Mast	Generator	48.6	446	0.1	Diesel	12	0.74
Intake 3 - Central & Eastern - 7	Manitowoc 555 150T, 250' Boom	Crane	93.3	446	0.2	Diesel	760	0.29
Intake 3 - Central & Eastern - 7	Portable, 20 Kw, Diesel, 36HP	Welders	481.7	446	1.1	Diesel Tier 4	36	0.45
Intake 3 - Central & Eastern - 7	Portable, 90 Kw, Diesel, 158HP	Welders	1784	446	4	Diesel Tier 4	158	0.45
Intake 3 - Central & Eastern - 7	Vibro Driver/Extractor V20B	Other Construction Eq	93.3	446	0.2	Diesel	325	0.42
Intake 3 - Central & Eastern - 7	Water Pump, 4" Diesel	Pumps	1229.9	446	2.8	Diesel	10	0.74
Intake 3 - Central & Eastern - 8	400A Diesel Welder, Trailer Mounted	Welders	2662.7	144	18.5	Diesel	22	0.45
Intake 3 - Central & Eastern - 8	Air Compressor 375 cfm	Air Compressor	2353.3	144	16.3	Diesel Tier 4	122	0.48
Intake 3 - Central & Eastern - 8	Grove RT Crane 55T, 247 hp	Crane	2662.7	144	18.5	Diesel	247	0.29
Intake 3 - Central & Eastern - 8	Light Plant, 4 ltr, 1000w, Tower/Mast	Generator	3833.5	144	26.6	Diesel	12	0.74
Intake 3 - Central & Eastern - 8	Manitowoc 555 150T, 250' Boom	Crane	2662.7	144	18.5	Diesel	760	0.29
Intake 3 - Central & Eastern - 8	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	2555.7	144	17.7	Diesel	75	0.31
Intake 3 - Central & Eastern - 8	Portable, 20 Kw, Diesel, 36HP	Welders	2662.7	144	18.5	Diesel Tier 4	36	0.45
Intake 3 - Central & Eastern - 8	Vibro Driver/Extractor V20B	Other Construction Eq	2662.7	144	18.5	Diesel	325	0.42
Intake 3 - Central & Eastern - 9	1600 CFM Compressor Diesel	Air Compressor	247	195	1.3	Diesel Tier 4	540	0.74
Intake 3 - Central & Eastern - 9	250 CFM Compressor Diesel	Air Compressor	3.3	195	0.0	Diesel Tier 3	75	0.74
Intake 3 - Central & Eastern - 9	CAT 950 H Wheel Loader	Rubber Tired Loaders	488.5	195	2.5	Diesel or Hybrid	130	0.36
Intake 3 - Central & Eastern - 9	CAT 980 H Wheel Loader	Rubber Tired Loader	24	195	0.1	Diesel	393	0.36
Intake 3 - Central & Eastern - 9	CAT CB-634D Vibratory 84"	Rollers	2062.7	195	10.6	Diesel	145	0.38
Intake 3 - Central & Eastern - 9	CAT D8 Dozer	Crawler Tractor	2086.7	195	10.7	Diesel	328	0.43
Intake 3 - Central & Eastern - 9	CAT Grader 16H	Graders	2086.7	195	10.7	Diesel	285	0.41
Intake 3 - Central & Eastern - 9	CAT Hyd Excavator 1CY	Excavator	477	195	2.4	Diesel	138	0.38
Intake 3 - Central & Eastern - 9	Hydraulic 55 Ton Crane	Crane	494	195	2.5	Diesel	350	0.29
Intake 3 - Central & Eastern - 9	Manitowoc 200 Ton Crane	Crane	247	195	1.3	Diesel	760	0.29
Intake 3 - Central & Eastern - 9	Manitowoc 777 200 Ton Crane	Crane	606	195	3.1	Diesel	760	0.29
Intake 3 - Central & Eastern - 9	Slurry Wall Mixer & Desander & Stop End &	Cement & Mortar Mix	247	195	1	Diesel	8	0.56
Intake 3 - Central & Eastern - 9	Slurry Wall Techniwell	Pumps	247	195	1	Diesel	500	0.74
Intake 3 - Central & Eastern - 10	Hydraulic 25 Ton Crane	Crane	76.5	2	38.3	Diesel	100	0.29
Intake 3 - Central & Eastern - 10	Hydraulic 40 Ton Crane	Crane	36	2	18.0	Diesel	300	0.29
Intake 3 - Central & Eastern - 11	150 KW Diesel Generator	Generator	100	5	20	Diesel Tier 4	183	0.74
Intake 3 - Central & Eastern - 11	Hydraulic 15 Ton Crane	Crane	100	5	20	Diesel	100	0.29
Intake 3 - Central & Eastern - 11	Water Pump, 6" Diesel	Pumps	400	5	80.0	Diesel	13	0.74
Intake 3 - Central & Eastern - 12	Air Compressor 250 cfm	Air Compressor	986.2	65	15.2	Diesel Tier 4	75	0.48
Intake 3 - Central & Eastern - 12	Manitowoc 777 200 Ton Crane	Crane	437.5	65	6.7	Diesel	760	0.29
Intake 3 - Central & Eastern - 12	Manitowoc 999-275 Ton Crane	Crane	576	65	8.9	Diesel	900	0.29
Intake 3 - Central & Eastern - 12	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	348.2	65	5.4	Diesel Tier 4	210	0.38
Intake 3 - Central & Eastern - 13	400A Diesel Welder, Trailer Mounted	Welders	1867.3	500	3.7	Diesel	22	0.45
Intake 3 - Central & Eastern - 13	Air Compressor 185 cfm	Air Compressor	603	500	1.2	Diesel Tier 4	49	0.48
Intake 3 - Central & Eastern - 13	Air Compressor 375 cfm	Air Compressor	4339.4	500	8.7	Diesel Tier 4	122	0.48
Intake 3 - Central & Eastern - 13	Air Compressor 900 cfm	Air Compressor	3664.1	500	7.3	Diesel Tier 4	300	0.48
Intake 3 - Central & Eastern - 13	Auger, Drilled Pier, 48-60", 484 Hp	Bore/Drill Rigs	4097.5	500	8.2	Diesel	137	0.38
Intake 3 - Central & Eastern - 13	Bentonite Mix Plant/Desander	Cement & Mortar Mix	4097.5	500	8.2	Diesel Tier 4	100	0.56
Intake 3 - Central & Eastern - 13	Bobcat S630 Skid Steer Loader	Skid Loader	2048.8	500	4.1	Diesel	74	0.37
Intake 3 - Central & Eastern - 13	Boom Truck, 12.5 Tn Boom	Crane	151.5	500	0.3	Diesel or Hybrid	100	0.29
Intake 3 - Central & Eastern - 13	CAT 14 M	Grader	32	500	0.1	Diesel	274	0.41
Intake 3 - Central & Eastern - 13	CAT 815, Roller	Roller	64	500	0.1	Diesel	170	0.38
Intake 3 - Central & Eastern - 13	CAT 950 H Wheel Loader	Rubber Tired Loaders	5012.4	500	10.0	Diesel or Hybrid	130	0.36
Intake 3 - Central & Eastern - 13	CAT 966 GII Wheel Loader	Rubber Tired Loaders	1499	500	3.0	Diesel	286	0.36
Intake 3 - Central & Eastern - 13	CAT D3 LGP, Dozer	Crawler Tractor	2048.8	500	4.1	Diesel or Hybrid	76	0.43
Intake 3 - Central & Eastern - 13	CAT D6LGPDozer w winch	Crawler Tractor	4225.5	500	8.5	Diesel or Hybrid	179	0.43
Intake 3 - Central & Eastern - 13	CAT D8RII, Dozer w winch	Crawler Tractor	301.3	500	0.6	Diesel	310	0.43
Intake 3 - Central & Eastern - 13	CAT LOADER/HOE 416 E	Rubber Tired Loaders	413.3	500	0.8	Diesel	78	0.36
Intake 3 - Central & Eastern - 13	Concrete Vibrator, 2"	Other Construction Eq	4876.2	500	9.8	Gasoline	3	0.42
Intake 3 - Central & Eastern - 13	Grove RT Crane 30T	Crane	1024.4	500	2.0	Diesel	160	0.29
Intake 3 - Central & Eastern - 13	Grove RT Crane 55T, 247 hp	Crane	9159	500	18.3	Diesel	247	0.29
Intake 3 - Central & Eastern - 13	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	64	500	0.1	Diesel	384	0.38
Intake 3 - Central & Eastern - 13	Light Plant, 4 ltr, 1000w, Tower/Mast	Generator	391	500	0.8	Diesel	12	0.74
Intake 3 - Central & Eastern - 13	Manitowoc 555 150T, 250' Boom	Crane	13710	500	27.4	Diesel	760	0.29
Intake 3 - Central & Eastern - 13	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	301.5	500	0.6	Diesel	75	0.31
Intake 3 - Central & Eastern - 13	Portable, 20 Kw, Diesel, 36HP	Welders	241.92	500	0.5	Diesel Tier 4	36	0.45
Intake 3 - Central & Eastern - 13	Portable, 90 Kw, Diesel, 158HP	Welders	1625.4	500	3.3	Diesel Tier 4	158	0.45
Intake 3 - Central & Eastern - 13	Pug Mill, 400 cy/hr, w200 kw Gen	Generators	234.5	500	0.5	Diesel Tier 4	300	0.74
Intake 3 - Central & Eastern - 13	Tremie Plant	Cement & Mortar Mix	197	500	0.4	Diesel	500	0.56
Intake 3 - Central & Eastern - 13	Water Pump, 6" Diesel	Pumps	4097.5	500	8.2	Diesel	13	0.74
Intake 3 - Central & Eastern - 13	Water Pump, 10" Diesel	Pumps	1088.6	500	2.2	Diesel	200	0.74
Intake 3 - Central & Eastern - 14	Air Compressor 250 cfm	Air Compressor	1680	513	3.3	Diesel Tier 4	75	0.48
Intake 3 - Central & Eastern - 14	400A Diesel Welder, Trailer Mounted	Welders	878.8	513	1.7	Diesel	22	0.45
Intake 3 - Central & Eastern - 14	Air Compressor 900 cfm	Air Compressor	1957.6	513	3.8	Diesel Tier 4	300	0.48
Intake 3 - Central & Eastern - 14	CAT 12 M	Grader	11.7	513	0.0	Diesel	173	0.41
Intake 3 - Central & Eastern - 14	CAT 980 H Wheel Loader	Rubber Tired Loader	424.8	513	0.8	Diesel	393	0.36
Intake 3 - Central & Eastern - 14	CAT D3 LGP, Dozer	Crawler Tractor	46.7	513	0.1	Diesel or Hybrid	76	0.43
Intake 3 - Central & Eastern - 14	CAT D6LGPDozer w winch	Crawler Tractor	46.7	513	0.1	Diesel or Hybrid	179	0.43
Intake 3 - Central & Eastern - 14	Concrete Vibrator, 2"	Other Construction Eq	2936.3	513	5.7	Gasoline	3	0.42
Intake 3 - Central & Eastern - 14	Grove RT Crane 55T, 247 hp	Crane	2658.8	513	5.2	Diesel	247	0.29
Intake 3 - Central & Eastern - 14	Generator 500 kw	Generators	2241.5	513	4.4	Diesel Tier 4	670	0.74
Intake 3 - Central & Eastern - 14	Hydraulic 9 Ton Crane	Crane	1238.8	513	2.4	Diesel	85	0.29
Intake 3 - Central & Eastern - 14	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	46.7	513	0.1	Diesel	384	0.38
Intake 3 - Central & Eastern - 14	Manitowoc 555 150T, 250' Boom	Crane	2936.3	513	5.7	Diesel	760	0.29
Intake 3 - Central & Eastern - 14	Portable, 20 Kw, Diesel, 36HP	Welders	978.8	513	1.9	Diesel Tier 4	36	0.45
Intake 3 - Central & Eastern - 14	Water Pump, 4" Diesel	Pumps	9.3	513	0.0	Diesel	10	0.74
Intake 3 - Central & Eastern - 15	CAT 973 Track Loader, 4.2 cy, 263hp	Skid Loader	118.8	210	0.6	Diesel or Hybrid	210	0.37
Intake 3 - Central & Eastern - 15	Concrete Vibrator, 2"	Other Construction Eq	71.9	210	0.3	Gasoline	3	0.42
Intake 3 - Central & Eastern - 15	Grove RT Crane 55T, 247 hp	Crane	190.6	210	0.9	Diesel	247	0.29
Intake 3 - Central & Eastern - 15	Manitowoc 555 150T, 250' Boom	Crane	230.8	210	1.1	Diesel	760	0.29
Intake 3 - Central & Eastern - 15	Pile Hammer,Vulcan, Single 50k Ft-LB w Comp	Other Construction Eq	118.8	210	0.6	Diesel	210	0.42
Intake 3 - Central & Eastern - 16	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	112.1	26	4	Diesel or Hybrid	224	0.42
Intake 3 - Central & Eastern - 16	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	112.1	26	4	Diesel or Hybrid	137	0.38
Intake 3 - Central & Eastern - 16	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	112.1	26	4	Diesel or Hybrid	133	0.38
Intake 3 - Central & Eastern - 16	Boom Truck, 12.5 Tn Boom	Crane	13.2	26	0.5	Diesel or Hybrid	100	0.29
Intake 3 - Central & Eastern - 16	CAT 14 M	Grader	50.9	26	2.0	Diesel	274	0.41
Intake 3 - Central & Eastern - 16	CAT 962 H Wheel Loader	Rubber Tired Loader	50.9	26	2.0	Diesel	230	0.36

Intake 3 - Central & Eastern - 16	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	50.9	26	2.0	Diesel	158	0.38
Intake 3 - Central & Eastern - 16	CAT LOADER/HOE 416 E	Rubber Tired Loaders	125.2	26	4.8	Diesel	78	0.36
Intake 3 - Central & Eastern - 17	Air Compressor 185 cfm	Air Compressor	180	9	20.0	Diesel Tier 4	49	0.48
Intake 3 - Central & Eastern - 17	Boom Truck, 12.5 Tn Boom	Crane	180	9	20.0	Diesel or Hybrid	100	0.29
Intake 3 - Central & Eastern - 17	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	180	9	20.0	Diesel	75	0.31
Intake 3 - Central & Eastern - 18	400A Diesel Welder, Trailer Mounted	Welders	33.3	281	0.1	Diesel	22	0.45
Intake 3 - Central & Eastern - 18	Air Compressor 185 cfm	Air Compressor	1380	281	4.9	Diesel Tier 4	49	0.48
Intake 3 - Central & Eastern - 18	Boom Truck, 12.5 Tn Boom	Crane	1380	281	4.9	Diesel or Hybrid	100	0.29
Intake 3 - Central & Eastern - 18	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	733.3	281	2.6	Diesel	110	0.36
Intake 3 - Central & Eastern - 18	CAT 12 M	Grader	5.5	281	0.0	Diesel	173	0.41
Intake 3 - Central & Eastern - 18	CAT 14 M	Grader	1566.6	281	5.6	Diesel	274	0.41
Intake 3 - Central & Eastern - 18	Cat 613 C Self Loading Scraper	Scraper	2501.2	281	8.9	Diesel	187	0.48
Intake 3 - Central & Eastern - 18	CAT 825, Roller	Roller	1537	281	5.5	Diesel	315	0.38
Intake 3 - Central & Eastern - 18	CAT 950 H Wheel Loader	Rubber Tired Loaders	770	281	2.7	Diesel or Hybrid	130	0.36
Intake 3 - Central & Eastern - 18	CAT 973 Track Loader, 4.2 cy, 263hp	Skid Loader	20	281	0.1	Diesel or Hybrid	210	0.37
Intake 3 - Central & Eastern - 18	CAT CS-74, Roller, 17 tn, 156 HP	Rollers	66.3	281	0.2	Diesel	156	0.38
Intake 3 - Central & Eastern - 18	CAT D3 LGP, Dozer	Crawler Tractor	36.7	281	0.1	Diesel or Hybrid	76	0.43
Intake 3 - Central & Eastern - 18	CAT D6LGP Dozer w winch	Crawler Tractor	2839	281	10.1	Diesel or Hybrid	179	0.43
Intake 3 - Central & Eastern - 18	CAT LOADER/HOE 416 E	Rubber Tired Loaders	13	281	0.0	Diesel	78	0.36
Intake 3 - Central & Eastern - 18	Compactor, Plate, 22" w x 35"	Plate Compactors	366.7	281	1.3	Diesel	8.5	0.43
Intake 3 - Central & Eastern - 18	Concrete Vibrator, 2"	Other Construction Eq	66.5	281	0.2	Gasoline	3	0.42
Intake 3 - Central & Eastern - 18	Disk, Towed	Off Highway Tractor	2758	281	9.8	Diesel	140	0.44
Intake 3 - Central & Eastern - 18	Grove RT Crane 30T	Crane	1655	281	5.9	Diesel	160	0.29
Intake 3 - Central & Eastern - 18	Grove RT Crane 55T, 247 hp	Crane	86.5	281	0.3	Diesel	247	0.29
Intake 3 - Central & Eastern - 18	Grove RT Crane 80T, 275hp	Crane	100	281	0.4	Diesel	275	0.29
Intake 3 - Central & Eastern - 18	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	1559	281	5.5	Diesel	384	0.38
Intake 3 - Central & Eastern - 18	Manitowoc 555 150T, 250' Boom	Crane	20	281	0.1	Diesel	760	0.29
Intake 3 - Central & Eastern - 18	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	1240	281	4.4	Diesel	75	0.31
Intake 3 - Central & Eastern - 18	Pile Hammer/Vulcan, Single 50k Ft-LB w Comp	Other Construction Eq	20	281	0.1	Diesel	210	0.42
Intake 3 - Central & Eastern - 18	Portable, 20 Kw, Diesel, 36HP	Welders	33.3	281	0.1	Diesel Tier 4	36	0.45
Intake 3 - Central & Eastern - 18	Water Pump, 4" Diesel	Pumps	768.5	281	2.7	Diesel	10	0.74
Intake 3 - Central & Eastern - 18	Water Pump,3" Gas, Diaphragm	Pumps	33.3	281	0.1	Gasoline	10	0.74
Intake 3 - Central & Eastern - 19	400A Diesel Welder, Trailer Mounted	Welders	4578.9	234	19.6	Diesel	22	0.45
Intake 3 - Central & Eastern - 19	Air Compressor 185 cfm	Air Compressor	923	234	3.9	Diesel Tier 4	49	0.48
Intake 3 - Central & Eastern - 19	Boom Truck, 12.5 Tn Boom	Crane	1223	234	5.2	Diesel or Hybrid	100	0.29
Intake 3 - Central & Eastern - 19	CAT 950 H Wheel Loader	Rubber Tired Loaders	50	234	0.2	Diesel or Hybrid	130	0.36
Intake 3 - Central & Eastern - 19	CAT CS-74, Roller, 17 tn, 156 HP	Rollers	50	234	0.2	Diesel	156	0.38
Intake 3 - Central & Eastern - 19	CAT D3 LGP, Dozer	Crawler Tractor	50	234	0.2	Diesel or Hybrid	76	0.43
Intake 3 - Central & Eastern - 19	Concrete Vibrator, 2"	Other Construction Eq	13.8	234	0.1	Gasoline	3	0.42
Intake 3 - Central & Eastern - 19	Grove RT Crane 30T	Crane	6	234	0.0	Diesel	160	0.29
Intake 3 - Central & Eastern - 19	Grove RT Crane 55T, 247 hp	Crane	13.8	234	0.1	Diesel	247	0.29
Intake 3 - Central & Eastern - 19	Manitowoc 555 150T, 250' Boom	Crane	634	234	2.7	Diesel	760	0.29
Intake 3 - Central & Eastern - 19	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	1124.7	234	4.8	Diesel	75	0.31
Intake 3 - Central & Eastern - 19	Portable, 20 Kw, Diesel, 36HP	Welders	6.9	234	0.0	Diesel Tier 4	36	0.45
Intake 3 - Central & Eastern - 19	Water Pump,3" Gas, Diaphragm	Pumps	6.9	234	0.0	Gasoline	10	0.74
Intake 3 - Central & Eastern - 20	400A Diesel Welder, Trailer Mounted	Welders	6333.881	278	22.8	Diesel	22	0.45
Intake 3 - Central & Eastern - 20	Air Compressor 185 cfm	Air Compressor	4563.32	278	16.4	Diesel Tier 4	49	0.48
Intake 3 - Central & Eastern - 20	Air Compressor 375 cfm	Air Compressor	249.291	278	0.9	Diesel Tier 4	122	0.48
Intake 3 - Central & Eastern - 20	Boom Truck, 12.5 Tn Boom	Crane	1286.9	278	4.6	Diesel or Hybrid	100	0.29
Intake 3 - Central & Eastern - 20	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	10	278	0.0	Diesel or Hybrid	130	0.36
Intake 3 - Central & Eastern - 20	CAT 966 GII Wheel Loader	Rubber Tired Loaders	218.97	278	0.8	Diesel	286	0.36
Intake 3 - Central & Eastern - 20	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	10	278	0.0	Diesel	158	0.38
Intake 3 - Central & Eastern - 20	CAT D3 LGP, Dozer	Crawler Tractor	10	278	0.0	Diesel or Hybrid	76	0.43
Intake 3 - Central & Eastern - 20	Concrete Vibrator, 2"	Other Construction Eq	4.61	278	0.0	Gasoline	3	0.42
Intake 3 - Central & Eastern - 20	Gradall, 1.50 Cy, 282 Hp	Excavator	218.99	278	0.8	Diesel	282	0.38
Intake 3 - Central & Eastern - 20	Grove RT Crane 30T	Crane	10	278	0.0	Diesel	160	0.29
Intake 3 - Central & Eastern - 20	Grove RT Crane 55T, 247 hp	Crane	2704.61	278	9.7	Diesel	247	0.29
Intake 3 - Central & Eastern - 20	Light Plant, 4 lite, 1000w, Tower/Mast	Generator	747.87	278	2.7	Diesel	12	0.74
Intake 3 - Central & Eastern - 20	Manitowoc 555 150T, 250' Boom	Crane	3126.56	278	11.2	Diesel	760	0.29
Intake 3 - Central & Eastern - 20	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	2056.191	278	7.4	Diesel	75	0.31
Intake 3 - Central & Eastern - 20	Portable, 20 Kw, Diesel, 36HP	Welders	251.59	278	0.9	Diesel Tier 4	36	0.45
Intake 3 - Central & Eastern - 20	Vibro Driver/Extractor V20B	Other Construction Eq	249.29	278	0.9	Diesel	325	0.42
Intake 3 - Central & Eastern - 20	Water Pump, 4" Diesel	Pumps	2.3	278	0.0	Diesel	10	0.74
Intake 3 - Central & Eastern - 21	400A Diesel Welder, Trailer Mounted	Welders	297.2	129	2.3	Diesel	22	0.45
Intake 3 - Central & Eastern - 21	Air Compressor 375 cfm	Air Compressor	297.2	129	2.3	Diesel Tier 4	122	0.48
Intake 3 - Central & Eastern - 21	Grove RT Crane 55T, 247 hp	Crane	221.6	129	1.7	Diesel	247	0.29
Intake 3 - Central & Eastern - 21	Manitowoc 555 150T, 250' Boom	Crane	415.6	129	3.2	Diesel	760	0.29
Intake 3 - Central & Eastern - 21	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	297.2	129	2.3	Diesel	75	0.31
Intake 3 - Central & Eastern - 21	Portable, 20 Kw, Diesel, 36HP	Welders	415.6	129	3.2	Diesel Tier 4	36	0.45
Intake 3 - Central & Eastern - 21	Vibro Driver/Extractor V20B	Other Construction Eq	297.2	129	2.3	Diesel	325	0.42
Intake 3 - Central & Eastern - 22	400A Diesel Welder, Trailer Mounted	Welders	98.3	371	0.3	Diesel	22	0.45
Intake 3 - Central & Eastern - 22	Air Compressor 185 cfm	Air Compressor	132.8	371	0.4	Diesel Tier 4	49	0.48
Intake 3 - Central & Eastern - 22	Air Compressor 375 cfm	Air Compressor	98.3	371	1.2	Diesel Tier 4	122	0.48
Intake 3 - Central & Eastern - 22	Air Compressor 900 cfm	Air Compressor	458.2	371	1.2	Diesel Tier 4	300	0.48
Intake 3 - Central & Eastern - 22	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	85.3	371	0	Diesel or Hybrid	224	0.42
Intake 3 - Central & Eastern - 22	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	85.3	371	0	Diesel or Hybrid	137	0.38
Intake 3 - Central & Eastern - 22	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	85.3	371	0	Diesel or Hybrid	133	0.38
Intake 3 - Central & Eastern - 22	Bobcat S630 Skid Steer Loader	Skid Loader	1600	371	4.3	Diesel	74	0.37
Intake 3 - Central & Eastern - 22	Boom Truck, 12.5 Tn Boom	Crane	132.8	371	0.4	Diesel or Hybrid	100	0.29
Intake 3 - Central & Eastern - 22	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	1429.3	371	3.9	Diesel	110	0.36
Intake 3 - Central & Eastern - 22	CAT 14 M	Grader	226.3	371	6.1	Diesel	274	0.41
Intake 3 - Central & Eastern - 22	Cat 613 C Self Loading Scraper	Scraper	274.6	371	0.74	Diesel	187	0.48
Intake 3 - Central & Eastern - 22	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	1432	371	3.9	Diesel or Hybrid	130	0.36
Intake 3 - Central & Eastern - 22	CAT CS-74, Roller, 17 tn, 156 HP	Rollers	1417.7	371	3.8	Diesel	156	0.38
Intake 3 - Central & Eastern - 22	CAT D6LGP Dozer w winch	Crawler Tractor	725.7	371	2.0	Diesel or Hybrid	179	0.43
Intake 3 - Central & Eastern - 22	CAT LOADER/HOE 416 E	Rubber Tired Loaders	1266.5	371	3.4	Diesel	78	0.36
Intake 3 - Central & Eastern - 22	Compactor, Plate, 22" w x 35"	Plate Compactors	479	371	1.3	Diesel	8.5	0.43
Intake 3 - Central & Eastern - 22	Compactor, Trench Roller, Vib 32" w	Roller	471.2	371	1.3	Diesel	20	0.38
Intake 3 - Central & Eastern - 22	Conc/RCC Paver, 8 -12 Ft. Wide, 230 HP	Pavers	405.2	371	1.1	Diesel	230	0.42
Intake 3 - Central & Eastern - 22	Grove RT Crane 15T, 100hp	Crane	132.8	371	0.4	Diesel	100	0.29
Intake 3 - Central & Eastern - 22	Grove RT Crane 55T, 247 hp	Crane	98.3	371	0.3	Diesel	247	0.29
Intake 3 - Central & Eastern - 22	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	725.7	371	2.0	Diesel	384	0.38
Intake 3 - Central & Eastern - 22	Manitowoc 555 150T, 250' Boom	Crane	98.3	371	0.3	Diesel	760	0.29
Intake 3 - Central & Eastern - 22	Pile Hammer D62-22, Single 165k Ft-LB, Diesel,	Other Construction Eq	98.3	371	0.3	Diesel	300	0.42
Intake 3 - Central & Eastern - 22	Portable, 20 Kw, Diesel, 36HP	Welders	98.3	371	0.3	Diesel Tier 4	36	0.45
Intake 3 - Central & Eastern - 22	Pug Mill, 400 cy/hr, w200 kw Gen	Generators	405.2	371	1.1	Diesel Tier 4	300	0.74
Intake 3 - Central & Eastern - 22	Shotcrete Pump	Pumps	458.2	371	1.2	Diesel	130	0.74
Intake 3 - Central & Eastern - 22	Vibro Driver/Extractor V20B	Other Construction Eq	98.3	371	0.3	Diesel	325	0.42

Intake 3 - Central & Eastern - 22	Water Pump, 4" Diesel	Pumps	93.9	371	0.3	Diesel	10	0.74
Intake 3 - Central & Eastern - 22	Water Pump, 6" Diesel	Pumps	544.1	371	1.5	Diesel	13	0.74
Intake 3 - Central & Eastern - 23	400A Diesel Welder, Trailer Mounted	Welders	260	45	5.8	Diesel	22	0.45
Intake 3 - Central & Eastern - 23	Bobcat S630 Skid Steer Loader	Skid Loader	200	45	4.4	Diesel	74	0.37
Intake 3 - Central & Eastern - 23	Boom Truck, 12.5 Tn Boom	Crane	200	45	4.4	Diesel or Hybrid	100	0.29
Intake 3 - Central & Eastern - 23	Grove RT Crane 80T, 275hp	Crane	33.8	45	0.8	Diesel	275	0.29
Intake 3 - Central & Eastern - 23	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	460	45	10.2	Diesel	75	0.31
Intake 3 - Central & Eastern - 24	Bobcat S630 Skid Steer Loader	Skid Loader	302.4	39	7.8	Diesel	74	0.37
Intake 3 - Central & Eastern - 24	Boom Truck, 12.5 Tn Boom	Crane	302.4	39	7.8	Diesel or Hybrid	100	0.29
Intake 3 - Central & Eastern - 24	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	302.4	39	7.8	Diesel	75	0.31
Intake 3 - Central & Eastern - 24	Water Pump, 4" Diesel	Pumps	302.4	39	7.8	Diesel	10	0.74
Intake 3 - Central & Eastern - 25	CAT 12 M	Grader	70	69	1.0	Diesel	173	0.41
Intake 3 - Central & Eastern - 25	CAT 631G Scraper, Conventional	Scraper	400	69	5.8	Diesel	515	0.48
Intake 3 - Central & Eastern - 25	CAT 966 Gil Wheel Loader	Rubber Tired Loaders	20	69	0.3	Diesel	286	0.36
Intake 3 - Central & Eastern - 25	CAT D8Rll, Dozer w winch	Crawler Tractor	400	69	5.8	Diesel	310	0.43
Intake 3 - Central & Eastern - 25	CAT D9R, Dozer w ripper	Crawler Tractor	500	69	7.2	Diesel	410	0.43
Intake 3 - Central & Eastern - 25	Disk, Towed	Off Highway Tractor	60	69	0.9	Diesel	140	0.44
Intake 3 - Central & Eastern - 25	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	130	69	1.9	Diesel	80	0.44

**Offroad Equipment (Electric) Inventory for Intake 3_3000 cfs_Central & Eastern
Options 1B, 2B, 7B, 8B, 9B, 10B**

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
Intake 3 - Central & Eastern - 2	Water Pump, 4" Electrical, Submersible	4020	1677	1	2.397
Intake 3 - Central & Eastern - 3	400A, Electric Welder	2646.11	220	15	180.417
Intake 3 - Central & Eastern - 3	Water Pump, 4" Electrical, Submersible	20.53	220	1	0.093
Intake 3 - Central & Eastern - 4	400A, Electric Welder	200	252	15	11.905
Intake 3 - Central & Eastern - 4	Water Pump, 4" Electrical, Submersible	13075.85	252	1	51.888
Intake 3 - Central & Eastern - 6	Water Pump, 4" Electrical, Submersible	18064	26	1	694.769
Intake 3 - Central & Eastern - 7	Water Pump, 4" Electrical, Submersible	44069.1	446	1	98.810
Intake 3 - Central & Eastern - 7	Water Pump, 6" Electrical, Submersible	388.4	446	1	0.871
Intake 3 - Central & Eastern - 13	400A, Electric Welder	603	500	15	18.090
Intake 3 - Central & Eastern - 13	Water Pump, 4" Electrical, Submersible	5299.6	500	1	10.599
Intake 3 - Central & Eastern - 14	Water Pump, 4" Electrical, Submersible	1957.6	513	1	3.816
Intake 3 - Central & Eastern - 16	Water Pump, 4" Electrical, Submersible	10.2	26	1	0.392
Intake 3 - Central & Eastern - 17	400A, Electric Welder	180	9	15	300.000
Intake 3 - Central & Eastern - 19	400A, Electric Welder	996.3	234	15	63.865
Intake 3 - Central & Eastern - 20	Water Pump, 4" Electrical, Submersible	99.5	278	1	0.358
Intake 3 - Central & Eastern - 23	400A, Electric Welder	1380	45	240	7,360.000
Intake 3 - Central & Eastern - 23	Water Pump, 4" Electrical, Submersible	200	45	1	4.444
Intake 3 - Central & Eastern - 24	400A, Electric Welder	1380	39	15	530.769

Vehicle Inventory for Intake 3_3000 cfs_Central & Eastern
Options 1B, 2B, 7B, 8B, 9B, 10B

Code	Vehicle	Primary Trip Purpose/Location (Traffic construction, Disposal, etc.)	# day	Vehicle Hours	Hours/trip	# of Vehicles Trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/mph)
Vehicle Use on Paved Roads – and Not on Construction Site												
Intake 3 - Central & Eastern - 1	Truck Flatbed 4 T Highway	Materials from Sacramento	64	32.5	0.6	51	0.8	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 1	Truck, Tractor, 75000k, 6 x 4	Materials from Sacramento	64	240.0	0.6	379	5.9	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 2	Truck Flatbed 4 T Highway	Two Cranes from Sacramento	1	1.3	0.6	2	2.0	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 3	Pickup 1/2T 2 WD	Materials from Sacramento	220	2879.9	0.6	4547	20.7	Intake 3 to/from Sacramento	19	38	Hybrid Gasoline	
Intake 3 - Central & Eastern - 3	Pickup, 3/4T, 4wd	Materials from Sacramento	220	377.6	0.6	596	2.7	Intake 3 to/from Sacramento	19	38	Hybrid Gasoline	
Intake 3 - Central & Eastern - 3	Truck Flatbed 4 T Highway	Materials from Sacramento	220	93.8	0.6	148	0.7	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 3	Truck End Dump 10-13cy Hwy	Materials from Sacramento	220	121.5	0.6	192	0.9	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 3	Truck & Bottom Dump 23cy 30T	Materials from Sacramento	220	388	0.6	486	474	Intake 3 to/from Sacramento	19	38	Diesel Tier 4	
Intake 3 - Central & Eastern - 3	Concrete Transit Mix Truck 12cy	Concrete from Lambert CBP	220	7.1	0.1	53	0	Intake to/from Lambert CBP	4	8	Diesel	
Intake 3 - Central & Eastern - 3	Truck End Dump 10-13cy Hwy	Cement, Aggregate, and Sand from Sacramento	220	20.5	0.5	41	0.2	Lambert CBP to/from Sacramento	15	30	Diesel	
Intake 3 - Central & Eastern - 3	Truck End Dump 10-13cy Hwy	Base Rock and Gravel	220	1538.9	0.6	2414	11.0	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 3	Truck, Flatbed, 10T, Hwy	Rebar from Sacramento	220	1.9	0.6	3	0.0	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 3	Truck Flatbed 4 T Highway	Crane, two Rollers, four Loaders, two Graders, Excavator, two Scrapers, and Tractor from Sacramento	1	8.2	0.6	13	13.0	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 3	Truck, Water, 4 Ngal, Hwy	4 Water from Sacramento Regiona	252	706.8	0.4	1651	6.5	Intake 3 to/from Sacramento Regional WWTP	13	26	Diesel	
Intake 3 - Central & Eastern - 4	Mechanics Truck	Materials from Sacramento	252	13075.9	0.6	20546	82	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 4	Pickup 1/2T 2 WD	Materials from Sacramento	252	18324.6	0.6	28934	124.8	Intake 3 to/from Sacramento	19	38	Hybrid Gasoline	
Intake 3 - Central & Eastern - 4	Pickup, 3/4T, 4wd	Materials from Sacramento	252	103.8	0.6	164	0.7	Intake 3 to/from Sacramento	19	38	Hybrid Gasoline	
Intake 3 - Central & Eastern - 4	Truck End Dump 10-13cy Hwy	Materials from Sacramento	252	577.0	0.6	911	3.6	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 4	Truck Flatbed 4 T Highway	Materials from Sacramento	252	13275.9	0.6	20962	83.2	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 4	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	252	200.0	0.6	316	1.3	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 4	Truck, Tractor, 75000k, 6 x 4	Materials from Sacramento	252	600.0	0.6	947	3.8	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 4	Truck End Dump 16-20cy Hwy	Base Rock and Gravel from Sacramento	252	644.1	0.6	1027	4	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 4	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement from Lambert CBP	252	584.8	0.1	4386	17	Intake to/from Lambert CBP	4	8	Diesel	
Intake 3 - Central & Eastern - 4	Truck End Dump 16-20cy Hwy	Bentonite from Sacramento	252	17.1	0.6	27	0.1	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 4	Truck Flatbed 4 T Highway	Two Cranes, two Excavators, and Roller from Sacramento	1	2.5	0.6	4	4.0	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 4	Truck Flatbed 4 T Highway	Loader from and to Sacramento	2	1.3	0.6	2	1.0	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 4	Truck, Water, 4 Ngal, Hwy	4 Water from Sacramento Regiona	252	59.8	0.4	138	0.5	Intake 3 to/from Sacramento Regional WWTP	13	26	Diesel	
Intake 3 - Central & Eastern - 5	Pickup 1/2T 2 WD	Materials from Sacramento	1772	128453.9	0.6	203822	114.5	Intake 3 to/from Sacramento	19	38	Hybrid Gasoline	
Intake 3 - Central & Eastern - 5	Pickup, 3/4T, 4wd	Materials from Sacramento	1772	85045.3	0.6	134382	75.8	Intake 3 to/from Sacramento	19	38	Hybrid Gasoline	
Intake 3 - Central & Eastern - 5	Truck Flatbed 4 T Highway	Materials from Sacramento	1772	26703.2	0.6	42363	23.8	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 5	SUV, Buick, 4wd, 185 Hp	Materials from Sacramento	1772	23412.8	0.6	30968	20.9	Intake 3 to/from Sacramento	19	38	Hybrid Gasoline	
Intake 3 - Central & Eastern - 5	Truck End Dump 10-13cy Hwy	Materials from Sacramento	1772	2856.0	0.6	4509	2.5	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 5	Truck Flatbed 4 T Highway	Forklift from and to Sacramento	2	1.3	0.6	2	1.0	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 6	Pickup 1/2T 2 WD	Materials from Sacramento	26	98.2	0.6	155	6.0	Intake 3 to/from Sacramento	19	38	Hybrid Gasoline	
Intake 3 - Central & Eastern - 6	Pickup, 3/4T, 4wd	Materials from Sacramento	26	40.9	0.6	65	2.5	Intake 3 to/from Sacramento	19	38	Hybrid Gasoline	
Intake 3 - Central & Eastern - 6	Truck End Dump 16-20cy Hwy	Base Rock from Sacramento	26	165.3	0.6	261	10	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 6	Truck & Bottom Dump 23cy 30T	Asphalt, Hot Mix Delivered from Sacramento	26	172	0.7	245	474	Intake 3 to/from Sacramento	21	42	Diesel Tier 4	
Intake 3 - Central & Eastern - 6	Truck Flatbed 4 T Highway	Roller from Sacramento	1	0.6	0.6	1	1.0	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 6	Truck Flatbed 4 T Highway	Three Rollers and Paver from and to Sacramento	2	3.8	0.6	6	3.0	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 7	Mechanics Truck	Materials from Sacramento	446	44069.1	0.6	69583	156	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 7	Pickup 1/2T 2 WD	Materials from Sacramento	446	46492.6	0.6	73409	164.6	Intake 3 to/from Sacramento	19	38	Hybrid Gasoline	
Intake 3 - Central & Eastern - 7	Pickup, 3/4T, 4wd	Materials from Sacramento	446	26280.5	0.6	44653	100.1	Intake 3 to/from Sacramento	19	38	Hybrid Gasoline	
Intake 3 - Central & Eastern - 7	Truck End Dump 10-13cy Hwy	Materials from Sacramento	446	301.0	0.6	475	1.1	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 7	Truck Flatbed 4 T Highway	Materials from Sacramento	446	44069.1	0.6	69583	156.0	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 7	Truck & Bottom Dump 23cy 30T	Materials from Sacramento	446	432	0.6	681	474	Intake 3 to/from Sacramento	19	38	Diesel Tier 4	
Intake 3 - Central & Eastern - 7	Truck, Flatbed, 10T, Hwy	Rebar from Sacramento	446	3.2	0.6	5	0.0	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 7	Truck End Dump 16-20cy Hwy	Base Rock and Bentonite from Sacramento	446	847.7	0.7	1211	3	Intake 3 to/from Sacramento	21	42	Diesel	
Intake 3 - Central & Eastern - 7	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement from Lambert CBP	446	1972.7	0.1	14795	33	Intake to/from Lambert CBP	4	8	Diesel	
Intake 3 - Central & Eastern - 7	Truck Flatbed 4 T Highway	Two Loaders from Sacramento	1	1.3	0.6	2	2.0	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 7	Truck Flatbed 4 T Highway	Excavator from and to Sacramento	2	1.3	0.6	2	1.0	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 8	Pickup 1/2T 2 WD	Materials from Sacramento	144	13463.7	0.6	21258	147.6	Intake 3 to/from Sacramento	19	38	Hybrid Gasoline	
Intake 3 - Central & Eastern - 8	Truck Flatbed 4 T Highway	Materials from Sacramento	144	867.0	0.6	1369	9.5	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 8	Truck End Dump 16-20cy Hwy	Rebar from Sacramento	144	184.8	0.7	264	2	Intake 3 to/from Sacramento	21	42	Diesel	
Intake 3 - Central & Eastern - 9	Truck End Dump 16-20cy Hwy	Materials from Sacramento	195	2062.7	0.6	3257	17	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 9	Concrete Transit Mix Truck 12cy	Concrete from Lambert CBP	195	494.0	0.1	3205	19.0	Intake to/from Lambert CBP	4	8	Diesel	
Intake 3 - Central & Eastern - 9	Truck Flatbed 4 T Highway	Crane from Sacramento	1	0.6	0.6	1	1.0	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 9	Truck Flatbed 4 T Highway	Crane, Grader, Excavator, and Tractor from and to Sacramento	2	5.1	0.6	8	4.0	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 9	Truck, Water, 4 Ngal, Hwy	4 Water from Sacramento Regiona	195	4522.3	0.4	10436	53.5	Intake 3 to/from Sacramento Regional WWTP	13	26	Diesel	
Intake 3 - Central & Eastern - 10	Concrete Transit Mix Truck 12cy	Concrete from Lambert CBP	2	76.0	0.1	570	285.0	Intake to/from Lambert CBP	4	8	Diesel	
Intake 3 - Central & Eastern - 10	Truck Flatbed 4 T Highway	Two Cranes from and to Sacramento	2	2.5	0.6	4	2.0	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 12	Truck Flatbed 4 T Highway	Crane from and to Sacramento	2	1.3	0.6	2	1.0	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 12	Truck Flatbed 4 T Highway	Crane to Sacramento	1	0.6	0.6	1	1.0	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 13	Pickup 1/2T 2 WD	Materials from Sacramento	500	8125.2	0.6	12829	25.7	Intake 3 to/from Sacramento	19	38	Hybrid Gasoline	
Intake 3 - Central & Eastern - 13	Pickup, 3/4T, 4wd	Materials from Sacramento	500	8854.6	0.6	13981	28.0	Intake 3 to/from Sacramento	19	38	Hybrid Gasoline	
Intake 3 - Central & Eastern - 13	Truck Flatbed 4 T Highway	Materials from Sacramento	500	4097.5	0.6	6470	12.9	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 13	Truck, Tractor, 75000k, 6 x 4	Materials from Sacramento	500	1360.8	0.6	2149	4.3	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 13	Concrete Transit Mix Truck 12cy	Concrete from Lambert CBP	500	1050.8	0.1	7881	15.8	Intake to/from Lambert CBP	4	8	Diesel	
Intake 3 - Central & Eastern - 13	Truck End Dump 10-13cy Hwy	Cement, Aggregate, and Sand from Sacramento	500	3058.0	0.5	6116	12.2	Lambert CBP to/from Sacramento	15	30	Diesel	
Intake 3 - Central & Eastern - 13	Truck End Dump 10-13cy Hwy	Bentonite from Sacramento	500	11.4	0.6	18	0.0	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 13	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Sacramento	500	200.1	0.6	316	0.6	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 13	Truck Flatbed 4 T Highway	Tractor from Sacramento	1	0.6	0.6	1	1.0	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 13	Truck Flatbed 4 T Highway	Roller to Sacramento	1	0.6	0.6	1	1.0	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 14	Pickup 1/2T 2 WD	Materials from Sacramento	513	46.7	0.6	74	0.1	Intake 3 to/from Sacramento	19	38	Hybrid Gasoline	
Intake 3 - Central & Eastern - 14	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	513	197.3	0.6	312	0.6	Intake 3 to/from Sacramento	19	38	Diesel	
Intake 3 - Central & Eastern - 14	Concrete Transit Mix Truck 12cy	Concrete from Lambert CBP	513	124.5	0.1	934	1.8	Intake to/from Lambert CBP	4	8	Diesel	
Intake 3 - Central & Eastern - 14	Truck End Dump 10-13cy Hwy	Cement, Aggregate, and Sand from Sacramento	513	362.5	0.5	725	1.4	Lambert CBP to/from Sacramento	15	30	Diesel	

Intake 3 - Central & Eastern - 14	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Sacramento	513	115.9	0.6	183	0.4	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 14	Truck Flatbed 4 T Highway	Crane from and to Sacramento	2	1.3	0.6	2	1.0	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 14	Truck Flatbed 4 T Highway	Loader to Sacramento	1	0.6	0.6	1	1.0	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 15	Pickup 1/2T 2 WD	Materials from Sacramento	210	118.8	0.6	188	0.9	Intake 3 to/from Sacramento	19	38	Hybrid Gasoline
Intake 3 - Central & Eastern - 15	Concrete Transit Mix Truck 12cy Truck, Tractor, 7500K, 6 x 4	Concrete from Lambert CBP	210	5007.2	0.1	48304	211.0	Intake to/from Lambert CBP	4	8	Diesel
Intake 3 - Central & Eastern - 15		Materials from Sacramento	210	118.8	0.6	188	0.9	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 15	Concrete Transit Mix Truck 12cy Truck End Dump 10-13cy Hwy	Concrete from Lambert CBP	210	492.4	0.1	3693	17.6	Intake to/from Lambert CBP	4	8	Diesel
Intake 3 - Central & Eastern - 15		Cement, Aggregate, and Sand from Sacramento	210	1433.0	0.5	2866	13.6	Lambert CBP to/from Sacramento	15	30	Diesel
Intake 3 - Central & Eastern - 15	Truck, Flatbed, 10T, Hwy	Rebar from Sacramento	210	124.1	0.6	196	0.9	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 15	Truck Flatbed 4 T Highway	Loader from Sacramento	1	0.6	0.6	1	1.0	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 16	Pickup 1/2T 2 WD	Materials from Sacramento	26	112.1	0.6	177	6.8	Intake 3 to/from Sacramento	19	38	Hybrid Gasoline
Intake 3 - Central & Eastern - 16	Pickup, 3/4T, 4wd	Materials from Sacramento	26	50.9	0.6	80	3.1	Intake 3 to/from Sacramento	19	38	Hybrid Gasoline
Intake 3 - Central & Eastern - 16	Truck & Bottom Dump 23cy 30T Truck End Dump 16-20cy Hwy	Materials from Sacramento	26	153	0.6	241	474	Intake 3 to/from Sacramento	19	38	Diesel Tier 4
Intake 3 - Central & Eastern - 16		Base Rock from Sacramento	26	177.3	0.6	280	11	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 16	Truck & Bottom Dump 23cy 30T	Asphalt, Hot Mix Delivered from Sacramento	26	227	0.7	324	474	Intake 3 to/from Sacramento	21	42	Diesel Tier 4
Intake 3 - Central & Eastern - 17	Pickup 1/2T 2 WD	Materials from Sacramento	9	180.0	0.6	284	31.6	Intake 3 to/from Sacramento	19	38	Hybrid Gasoline
Intake 3 - Central & Eastern - 17	Truck, Tractor, 7500K, 6 x 4	Materials from Sacramento	9	400.0	0.6	632	70.2	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 18	Pickup 1/2T 2 WD	Materials from Sacramento	281	3121.6	0.6	4929	17.5	Intake 3 to/from Sacramento	19	38	Hybrid Gasoline
Intake 3 - Central & Eastern - 18	Pickup, 3/4T, 4wd	Materials from Sacramento	281	770.0	0.6	1216	4.3	Intake 3 to/from Sacramento	19	38	Hybrid Gasoline
Intake 3 - Central & Eastern - 18	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	281	13.0	0.6	21	0.1	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 18	Truck End Dump 10-13cy Hwy	Materials from Sacramento	281	183.3	0.6	289	1.0	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 18	Truck Flatbed 4 T Highway	Materials from Sacramento	281	133.0	0.6	210	0.7	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 18	Truck, Tractor, 7500K, 6 x 4	Materials from Sacramento	281	395.0	0.6	624	2.2	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 18	Concrete Transit Mix Truck 12cy Truck End Dump 16-20cy Hwy	Concrete from Lambert CBP	281	104.1	0.1	782	2.8	Intake to/from Lambert CBP	4	8	Diesel
Intake 3 - Central & Eastern - 18		Cement, Aggregate, and Sand from Sacramento	281	44.8	0.7	64	0.2	Lambert CBP to/from Sacramento	21	42	Diesel
Intake 3 - Central & Eastern - 18	Truck End Dump 16-20cy Hwy	Gravel from Sacramento	281	105.1	0.6	166	1	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 18	Truck, Flatbed, 10T, Hwy	Rebar from Sacramento	281	3.8	0.6	6	0.0	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 18	Truck Flatbed 4 T Highway	Crane from Sacramento	1	0.6	0.6	1	1.0	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 18	Truck Flatbed 4 T Highway	Roller and Loader to Sacramento	1	1.3	0.6	2	2.0	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 18	Truck, Water, 4 Ngal, Hwy	4 Water from Sacramento Regiona	281	108.3	0.4	250	0.9	Intake 3 to/from Sacramento Regional WWTP	13	26	Diesel
Intake 3 - Central & Eastern - 19	Concrete Transit Mix Truck 12cy Pickup 1/2 T 2 WD	Concrete from Lambert CBP	234	19.3	0.1	145	0.6	Intake to/from Lambert CBP	4	8	Diesel
Intake 3 - Central & Eastern - 19		Materials from Sacramento	234	1152.3	0.6	1819	7.8	Intake 3 to/from Sacramento	19	38	Hybrid Gasoline
Intake 3 - Central & Eastern - 19	Pickup, 3/4T, 4wd	Materials from Sacramento	234	50.0	0.6	79	0.3	Intake 3 to/from Sacramento	19	38	Hybrid Gasoline
Intake 3 - Central & Eastern - 19	Truck Flatbed 4 T Highway	Materials from Sacramento	234	201.7	0.6	318	1.4	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 19	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	234	201.7	0.6	318	1.4	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 19	Concrete Transit Mix Truck 12cy Truck End Dump 16-20cy Hwy	Concrete from Lambert CBP	234	0.4	0.1	3	0.0	Intake to/from Lambert CBP	4	8	Diesel
Intake 3 - Central & Eastern - 19		Gravel from Sacramento	234	3.2	0.6	5	0	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 19	Truck, Tractor, 7500K, 6 x 4	Materials from Sacramento	234	571.5	0.6	902	3.9	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 19	Truck, Flatbed, 10T, Hwy	Rebar from Sacramento	234	124.1	0.6	196	0.8	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 20	Pickup 1/2T 2 WD	Materials from Sacramento	278	1856.1	0.6	2888	10.3	Intake 3 to/from Sacramento	19	38	Hybrid Gasoline
Intake 3 - Central & Eastern - 20	Pickup, 3/4T, 4wd	Materials from Sacramento	278	10.0	0.6	16	0.1	Intake 3 to/from Sacramento	19	38	Hybrid Gasoline
Intake 3 - Central & Eastern - 20	Truck Flatbed 4 T Highway	Materials from Sacramento	278	2517.8	0.6	3975	14.3	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 20	Concrete Transit Mix Truck 12cy Truck End Dump 16-20cy Hwy	Concrete from Lambert CBP	278	0.8	0.1	6	0	Intake to/from Lambert CBP	4	8	Diesel
Intake 3 - Central & Eastern - 20		Gravel from Sacramento	278	1.9	0.6	3	0	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 20	Truck End Dump 10-13cy Hwy	Cement, Aggregate, and Sand from Sacramento	278	2253.0	0.5	4006	16.2	Lambert CBP to/from Sacramento	15	30	Diesel
Intake 3 - Central & Eastern - 20		Rebar from Sacramento	278	0.6	0.6	1	0.0	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 20	Truck, Flatbed, 10T, Hwy		278	0.6	0.6	1	0.0	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 20	Truck Flatbed 4 T Highway	Roller, Tractor, and Crane to Sacramento	1	1.9	0.6	3	3.0	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 20	Truck Flatbed 4 T Highway	Grader from and to Sacramento	2	1.3	0.6	2	1.0	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 22	Pickup 1/2T 2 WD	Materials from Sacramento	371	1285.6	0.6	2027	5.5	Intake 3 to/from Sacramento	19	38	Hybrid Gasoline
Intake 3 - Central & Eastern - 22	Pickup, 3/4T, 4wd	Materials from Sacramento	371	2421.7	0.6	3824	10.3	Intake 3 to/from Sacramento	19	38	Hybrid Gasoline
Intake 3 - Central & Eastern - 22	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	371	2130.2	0.6	3679	9.9	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 22	Truck End Dump 10-13cy Hwy	Materials from Sacramento	371	1860.3	0.6	2937	7.9	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 22	Truck End Dump 10-13cy Hwy	Materials from Sacramento	371	187.7	0.6	217	0.6	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 22	Truck End Dump 10-13cy Hwy	Cement, Aggregate, and Sand from Sacramento	371	2220.0	0.6	3521	9.5	Lambert CBP to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 22	Concrete Transit Mix Truck 12cy Truck End Dump 16-20cy Hwy	Concrete from Lambert CBP	371	605.1	0.1	4338	12	Intake to/from Lambert CBP	4	8	Diesel
Intake 3 - Central & Eastern - 22		Base Rock and Gravel from Sacramento	371	4988.3	0.6	7976	71	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 22	Truck & Bottom Dump 23cy 30T	Asphalt, Hot Mix Delivered from Sacramento	371	634	0.7	877	474	Intake 3 to/from Sacramento	21	42	Diesel Tier 4
Intake 3 - Central & Eastern - 22	Truck Flatbed 4 T Highway	Roller, Wheel Cycles, other Loaders, Grader, Excavator, Scraper, and Tractor to Sacramento	1	7.0	0.6	11	11.0	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 22	Truck Flatbed 4 T Highway	Two Pavers and two Rollers from and to Sacramento	2	5.1	0.6	8	4.0	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 23	Pickup 1/2T 2 WD	Materials from Sacramento	45	260.0	0.6	411	9.1	Intake 3 to/from Sacramento	19	38	Hybrid Gasoline
Intake 3 - Central & Eastern - 23	Truck End Dump 10-13cy Hwy	Materials from Sacramento	45	200.0	0.6	316	7.0	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 23	Truck Flatbed 4 T Highway	Crane to Sacramento	1	0.6	0.6	1	1.0	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 24	Truck End Dump 10-13cy Hwy	Materials from Sacramento	39	302.4	0.6	477	12.2	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 24	Truck End Dump 10-13cy Hwy	Gravel and Rip Rap from Sacramento	39	311.0	0.6	491	12.6	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 24	Truck Flatbed 4 T Highway	Crane and loader to Sacramento	1	1.3	0.6	2	2.0	Intake 3 to/from Sacramento	19	38	Diesel
Intake 3 - Central & Eastern - 25	Truck Flatbed 4 T Highway	Loader, Grader, Scraper, and four Tractors to Sacramento	1	4.4	0.6	7	7.0	Intake 3 to/from Sacramento	19	38	Diesel

Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) — on the Construction Site										Miles On-Site	
Intake 3 - Central & Eastern - 1	Trailer, Flatbed, 40T	Off-highway Truck	64	240.0	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		1200	Diesel
Intake 3 - Central & Eastern - 3	CAT 770L Articulated End dump	Dumper	220	38.8	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		194	Diesel or Hybrid
Intake 3 - Central & Eastern - 3	Articulated Rear Dump 22 CY/CAT 730	Dumper	220	38.6	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		193	Diesel or Hybrid
Intake 3 - Central & Eastern - 4	Articulated Rear Dump 22 CY/CAT 730	Dumper	252	5538.2	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		27591	Diesel or Hybrid
Intake 3 - Central & Eastern - 4	Trailer, Flatbed, 40T	Off-Highway Truck	252	200.0	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		1000	Diesel
Intake 3 - Central & Eastern - 4	Trailer, Lowboy, 120T	Off-Highway Truck	252	400.0	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		2000	Diesel
Intake 3 - Central & Eastern - 6	Truck & Bottom Dump, 23cy, 30T	Dumper	26	122.8	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		614	Diesel
Intake 3 - Central & Eastern - 7	Articulated Rear Dump 22 CY/CAT 730	Dumper	446	8449.6	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		42248	Diesel or Hybrid
Intake 3 - Central & Eastern - 7	Trailer, Lowboy, 120T	Off-Highway Truck	446	93.3	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		467	Diesel
Intake 3 - Central & Eastern - 7	Truck, 400hp & End Dump Tr, 28cy, 36T	Dumper	446	2472.5	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		12363	Diesel
Intake 3 - Central & Eastern - 9	Articulated Rear Dump 22 CY/CAT 730	Dumper	195	1778.6	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		8893	Diesel or Hybrid

Intake 3 - Central & Eastern - 13	Articulated Rear Dump 22 CY/CAT 730	Dumper	500	5841.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	20207	Diesel or Hybrid
Intake 3 - Central & Eastern - 13	Trailer, Lowboy, 50T	Off-Highway Truck	500	1360.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	6804	Diesel
Intake 3 - Central & Eastern - 14	Articulated Rear Dump 22 CY/CAT 730	Dumper to move soil on-site	513	186.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	934	Diesel or Hybrid
Intake 3 - Central & Eastern - 15	Trailer, Lowboy, 50T	Off-Highway Truck	210	118.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	594	Diesel
Intake 3 - Central & Eastern - 17	Trailer, Lowboy, 120T	Off-Highway Truck	9	400.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2000	Diesel
Intake 3 - Central & Eastern - 18	Trailer, Lowboy, 50T	Off-Highway Truck	281	761.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3809	Diesel
Intake 3 - Central & Eastern - 19	Articulated Rear Dump 22 CY/CAT 730	Dumper	234	100.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	500	Diesel or Hybrid
Intake 3 - Central & Eastern - 19	Trailer, Lowboy, 120T	Off-Highway Truck	234	571.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2658	Diesel
Intake 3 - Central & Eastern - 20	Articulated Rear Dump 22 CY/CAT 730	Dumper	278	20.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	100	Diesel or Hybrid
Intake 3 - Central & Eastern - 22	Articulated Rear Dump 22 CY/CAT 730	Dumper	371	20.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	100	Diesel or Hybrid
Intake 3 - Central & Eastern - 22	Trailer, Flatbed, 40T	Off-Highway Truck	371	479.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2395	Diesel
Intake 3 - Central & Eastern - 22	Trailer, Lowboy, 120T	Off-Highway Truck	371	98.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	492	Diesel
Intake 3 - Central & Eastern - 25	CAT 725 Tractor, 320hp	Dumper	69	255.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1275	Diesel

Employees Required to Intake 3_3000 cfs_Central & Eastern
Options 1B, 2B, 7B, 8B, 9B, 10B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
Intake 3 - Central & Eastern - 1	Carpenter Apprentice	130.0	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 1	Carpenter Foreman	130.0	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 1	Carpenter Journeyman	520.0	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 1	Iron Worker-Rigger	240.0	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 1	Operator G1a Cranes>100 t	32.5	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 1	Operator G2a Cranes 45 to 100 t	240.0	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 1	Operator G7 Oiler	32.5	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 1	Teamster G1 Hwy ED<6cy, Flatbed	32.5	10		Sacramento to/from Intake 3	19
	Teamster G4 Tractor,	240.0				
Intake 3 - Central & Eastern - 1	Lowbed/Trailer		10		Sacramento to/from Intake 3	19
TOTAL Intake 3 - Central & Eastern-1		1597.5	90			
Intake 3 - Central & Eastern - 2	Operator G2a Cranes 45 to 100 t	2010.0	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 2	Operator G4 Hvy Duty Mechanic	502.5	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 2	Operator G7 Oiler	4020.0	10		Sacramento to/from Intake 3	19
TOTAL Intake 3 - Central & Eastern-2		6532.5	30			
Intake 3 - Central & Eastern - 3	Carpenter Apprentice	2646.1	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 3	Carpenter Foreman	2729.4	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 3	Carpenter Journeyman	416.7	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 3	Carpenter, Bridge and Highway	9196.1	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 3	Cement Mason Journeyman	333.3	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 3	Electrical Foreman	2048.9	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 3	Electrician Journeyman	4307.2	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 3	Iron Worker Foreman	86.5	10		Sacramento to/from Intake 3	19
	Iron Worker Journeyman	11300.6				19
Intake 3 - Central & Eastern - 3	Rebar/Struct		10		Sacramento to/from Intake 3	
Intake 3 - Central & Eastern - 3	Iron Worker-Rigger	9.6	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 3	Laborer Foreman	4913.0	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 3	Laborer G1 Pipe layers	559.6	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 3	Laborer G1 Power Tamper	13.1	10		Sacramento to/from Intake 3	19
	Laborer G1 Vibrator, Green Cutter	83.3				19
Intake 3 - Central & Eastern - 3	Laborer G2 Concrete Laborer	333.3	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 3	Laborer G2 General	29011.7	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 3	Laborer G3 Flagman	239.3	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 3	OPERATING ENGINEER FOREMAN	271.0	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 3	Operator G1a Cranes>100 t	6030.0	10		Sacramento to/from Intake 3	19
						19
Intake 3 - Central & Eastern - 3	Operator G2 Excavator 3.5 to 7.0 cy	12.9	10		Sacramento to/from Intake 3	
Intake 3 - Central & Eastern - 3	Operator G2 Finish Blade	204.6	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 3	Operator G2a Cranes 45 to 100 t	443.3	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 3	Operator G3 BH-Loader>3/4cy	549.5	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 3	Operator G3 Loader >4cy	111.0	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 3	Operator G4 Dozer & Push Cat	236.3	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 3	Operator G4 Grade Check	171.0	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 3	Operator G4 Hvy Duty Mechanic	20.8	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 3	Operator G4 Loader <4.1cy	4646.3	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 3	Operator G4 Scraper	352.7	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 3	Operator G4a Boom truck<15 ton	4761.8	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 3	Operator G5 Compactor w-blade	171.0	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 3	Operator G5 Concrete Pump	41.7	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 3	Operator G6 Tractor	2323.2	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 3	Operator G7 Roller, Compactor	77.6	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 3	Operator G8 Pump	20.5	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 3	Teamster G1 Hwy ED<6cy, Flatbed	9375.9	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 3	Teamster G2 Hwy ED 6-8cy, Water	491.5	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 3	Teamster G3 Boom Truck	2475.7	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 3	Teamster G3 ED 8-24cy, Water>7/	426.9	10		Sacramento to/from Intake 3	19
TOTAL Intake 3 - Central & Eastern-3		101442.9	390			
Intake 3 - Central & Eastern - 4	Carpenter Apprentice	200.0	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 4	Carpenter Foreman	200.0	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 4	Carpenter Journeyman	400.0	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 4	Electrical Foreman	250.0	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 4	Electrical Lineman	800.0	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 4	Electrician Journeyman	200.0	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 4	Iron Worker Journeyman Rebar/S	400.0	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 4	Laborer G2 General	50065.3	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 4	Laborer G3 Flagman	927.3	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 4	OPERATING ENGINEER FOREMAN	15008.6	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 4	Operator G2 Excavator 3.5 to 7.0	1379.5	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 4	Operator G2 Finish Blade	1720.4	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 4	Operator G2 Plant Operator	26151.7	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 4	Operator G3 BH-Loader>3/4cy	13647.5	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 4	Operator G3 Loader >4cy	17.1	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 4	Operator G3a Cranes 45 t and uni	13275.8	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 4	Operator G4 Dozer & Push Cat	3639.9	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 4	Operator G4 Grade Check	14506.1	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 4	Operator G4 Hvy Duty Mechanic	13075.8	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 4	Operator G4 Scraper	2807.6	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 4	Operator G4a Boom truck<15 ton	600.0	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 4	Operator G5 Compactor w-blade	1525.7	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 4	Operator G5 Drilling & Boring Mach	724.0	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 4	Operator G7 Oiler	724.0	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 4	Operator G8a Skidsteer <Bobcat 743	200.0	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 4	Teamster G1 Hwy ED<6cy, Flatbed	13275.8	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 4	Teamster G2 Hwy ED 6-8cy, Water<7	15074.3	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 4	Teamster G3 Boom Truck	100.0	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 4	Teamster G3 ED 8-24cy, Water>7mg;	6261.6	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 4	Teamster G4 Tractor, Lowbed/Trailer	600.0	10		Sacramento to/from Intake 3	19
TOTAL Intake 3 - Central & Eastern-4		197758.3	300			
Intake 3 - Central & Eastern - 5	Electrician Journeyman	7140.0	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 5	Laborer Foreman	4284.0	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 5	Laborer G4 Clean-up	14280.0	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 5	Operator G3 BH-Loader>3/4cy	6426.0	10		Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 5	Teamster G1 Hwy ED<6cy, Flatbed	3570.0	10		Sacramento to/from Intake 3	19

TOTAL Intake 3 - Central & Eastern-5		0	35700.0	50		
Intake 3 - Central & Eastern - 6	Iron Worker-Rigger	29.6	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 6	Laborer G2 General	511.3	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 6	OPERATING ENGINEER FOREMAN	168.7	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 6	Operator G2 Finish Blade	40.9	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 6	Operator G3 BH-Loader>3/4cy	127.8	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 6	Operator G3 Loader >4cy	40.9	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 6	Operator G4 Grade Check	139.1	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 6	Operator G4a Boom truck<15 ton	29.6	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 6	Operator G5 Asphalt Roller	196.4	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 6	Operator G5 Compactor w-blade	40.9	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 6	Operator G5 Paver	98.2	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 6	Operator G8 Pump	8.2	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 6	Teamster G2 Hwy ED 6-8cy, Water<7	90.0	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 6	Teamster G3 Boom Truck	29.6	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 6	Teamster G3 ED 8-24cy, Water>7mg;	122.7	10	Sacramento to/from Intake 3	19	
TOTAL Intake 3 - Central & Eastern-6		1674.1	150			
Intake 3 - Central & Eastern - 7	Laborer Foreman	58.3	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 7	Laborer G2 General	132790.0	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 7	Laborer G3 Flagman	308.9	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 7	OPERATING ENGINEER FOREMAN	46657.4	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 7	Operator G1a Cranes>100 t	93.3	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 7	Operator G2 Excavator 3.5 to 7.0 cy	2151.2	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 7	Operator G2 Finish Blade	2506.2	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 7	Operator G2 Plant Operator	88138.3	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 7	Operator G2a Cranes 45 to 100 t	93.3	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 7	Operator G3 BH-Loader>3/4cy	44108.0	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 7	Operator G3 Loader >4cy	429.9	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 7	Operator G3a Cranes 45 t and under	44069.1	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 7	Operator G4 Dozer & Push Cat	6672.1	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 7	Operator G4 Grade Check	46504.4	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 7	Operator G4 Hvy Duty Mechanic	44069.1	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 7	Operator G4 Scraper	4140.1	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 7	Operator G5 Compactor w-blade	2156.1	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 7	Operator G7 Oiler	93.3	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 7	Operator G7 Roller, Compactor	247.2	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 7	Operator G8 Pump	437.9	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 7	Operator G8a Skidsteer <Bobcat 743	77.7	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 7	Pile Driver Foreman	93.3	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 7	Pile Driver Wharf and Dock	373.3	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 7	Teamster G1 Hwy ED<6cy, Flatbed	44146.8	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 7	Teamster G2 Hwy ED 6-8cy, Water<7	46839.3	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 7	Teamster G3 ED 8-24cy, Water>7mg;	11353.5	10	Sacramento to/from Intake 3	19	
TOTAL Intake 3 - Central & Eastern-7		568608.3	260			
Intake 3 - Central & Eastern - 8	Dredge Deckhand	3903.5	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 8	Laborer G2 General	214.1	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 8	Operator G1a Cranes>100 t	2662.7	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 8	Operator G2a Cranes 45 to 100 t	2662.7	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 8	Operator G4a Boom truck<15 ton	2011.0	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 8	Pile Driver Foreman	2555.7	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 8	Pile Driver Journeyman	107.0	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 8	Pile Driver Wharf and Dock	13313.6	10	Sacramento to/from Intake 3	19	
TOTAL Intake 3 - Central & Eastern-8		27430.3	80			
Intake 3 - Central & Eastern - 9	Bottomlander	111.0	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 9	Carpenter	481.5	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 9	Carpenter Foreman	120.4	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 9	Compactor Operator	2062.7	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 9	Crane Oiler	742.0	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 9	Diver Contractor	300.0	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 9	Dozer Operator	2086.7	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 9	Excavator Operator	241.5	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 9	General Foreman	729.5	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 9	General Laborer	3463.7	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 9	Grade Setter / Checker	2086.7	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 9	Grader Operator	2141.7	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 9	Hyd Crane Operator	494.0	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 9	Hyd Track Drill	235.5	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 9	Iron Worker	3408.7	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 9	Iron Worker Foreman	617.7	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 9	Lead Miner	253.0	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 9	Loader Operator	512.5	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 9	Mechanic Welder	494.0	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 9	Miner	2204.0	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 9	Shaft Crane Operator	853.0	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 9	Shifter	858.0	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 9	Slurry Wall Consultant	247.0	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 9	Toplander	359.0	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 9	Truck Driver	2351.7	10	Sacramento to/from Intake 3	19	
TOTAL Intake 3 - Central & Eastern-9		27455.6	250			
Intake 3 - Central & Eastern - 10	Diver Contractor	58.7	24	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 10	Hyd Crane Operator	112.5	24	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 10	Iron Worker	288.0	24	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 10	Iron Worker Foreman	36.0	24	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 10	Lead Miner	19.1	24	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 10	Miner	225.0	24	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 10	Shifter	55.1	24	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 10	Toplander	144.0	24	Sacramento to/from Intake 3	19	
TOTAL Intake 3 - Central & Eastern-10		938.4	192			
Intake 3 - Central & Eastern - 11	Shifter	100.0	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 11	Lead Miner	100.0	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 11	Miner	800.0	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 11	Hyd Crane Operator	100.0	10	Sacramento to/from Intake 3	19	
TOTAL Intake 3 - Central & Eastern-11		1100.0	40			
Intake 3 - Central & Eastern - 12	Bottomlander	402.0	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 12	Concrete Pump Operator	288.0	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 12	Crane Oiler	961.5	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 12	Electrician	8.2	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 12	Iron Worker	2618.7	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 12	Iron Worker Foreman	327.3	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 12	Lead Miner	686.2	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 12	Mechanic Welder	398.2	10	Sacramento to/from Intake 3	19	
Intake 3 - Central & Eastern - 12	Miner	5444.3	10	Sacramento to/from Intake 3	19	

Intake 3 - Central & Eastern - 12	Shaft Crane Operator	1013.5	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 12	Shifter	713.5	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 12	Toplander	1013.5	10	Sacramento to/from Intake 3	19
TOTAL Intake 3 - Central & Eastern-12		13875.0	120		
Intake 3 - Central & Eastern - 13	Carpenter Apprentice	603.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Carpenter Foreman	14358.6	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Carpenter Journeyman	76972.6	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Cement Mason Foreman	2373.9	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Cement Mason Journeyman	9359.6	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Dredge Deckhand	1360.8	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Electrical Foreman	150.8	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Electrician Journeyman	603.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Iron Worker Foreman	8016.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Iron Worker Journeyman Rebar/Stru	60124.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Laborer Foreman	7282.4	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Laborer G1 Vibrator, Green Cutter	2047.6	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Laborer G2 Concrete Laborer	34659.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Laborer G2 General	46974.5	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Laborer G2 High Pressure Nozzleman	4050.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Laborer G4 Clean-up	6146.3	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	OPERATING ENGINEER FOREMAN	4870.6	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Operator G1a Cranes>100 t	13710.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Operator G2 Excavator 3.5 to 7.0 cy	64.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Operator G2 Finish Blade	32.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Operator G2 Plant Operator	6302.2	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Operator G2a Cranes 45 to 100 t	9159.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Operator G3 BH-Loader>3/4cy	413.3	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Operator G3 Dozer w-slope board	2048.8	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Operator G3 Loader >4cy	6511.4	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Operator G3a Cranes 45 t and under	1024.4	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Operator G4 Dozer & Push Cat	4526.8	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Operator G4 Hvy Duty Mechanic	4037.5	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Operator G4 Welder	603.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Operator G4a Boom truck<15 ton	301.5	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Operator G5 Compactor w-blade	64.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Operator G5 Concrete Pump	3358.8	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Operator G5 Drilling & Boring Mach	4097.5	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Operator G6 Conc Saw	4097.5	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Operator G7 Oiler	20341.1	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Operator G-8 Mech helper	2412.1	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Operator G8a Skidsteer <Bobcat 743	2048.8	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Pile Driver Wharf and Dock	3402.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Teamster G1 Hvy ED<6cy, Flatbed	4097.5	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Teamster G2 Hvy ED 6-8cy, Water<7	1423.2	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Teamster G3 Boom Truck	301.5	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Teamster G3 ED 8-24cy, Water>7mg;	13635.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 13	Teamster G4 Tractor, Lowbed/Trailei	1360.8	10	Sacramento to/from Intake 3	19
TOTAL Intake 3 - Central & Eastern-13		389326.3	430		
Intake 3 - Central & Eastern - 14	Bottomlander	2721.5	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 14	Bullgang Foreman	1877.3	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 14	Bullgang Laborer	10474.7	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 14	Carpenter Foreman	2916.2	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 14	Carpenter Journeyman	17927.1	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 14	Cement Mason Foreman	1710.8	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 14	Cement Mason Journeyman	5731.1	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 14	Electrician	1680.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 14	Flat Truck Driver	197.3	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 14	Hyd Crane Operator	1238.8	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 14	Iron Worker Foreman	1637.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 14	Iron Worker Journeyman Rebar/Stru	11458.7	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 14	Laborer Foreman	548.7	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 14	Laborer G1 Vibrator, Green Cutter	731.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 14	Laborer G2 Concrete Laborer	8914.8	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 14	Laborer G2 General	9233.3	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 14	Laborer G2 High Pressure Nozzleman	366.5	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 14	Lead Miner	1041.5	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 14	Loader Operator	424.8	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 14	Mechanic / Welder	1877.3	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 14	Miner	8756.5	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 14	OPERATING ENGINEER FOREMAN	46.7	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 14	Operator G1a Cranes>100 t	2936.3	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 14	Operator G2 Excavator 3.5 to 7.0 cy	46.7	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 14	Operator G2 Finish Blade	11.7	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 14	Operator G2a Cranes 45 to 100 t	978.8	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 14	Operator G4 Dozer & Push Cat	93.3	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 14	Operator G4 Grade Check	23.3	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 14	Operator G4 Hvy Duty Mechanic	244.7	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 14	Operator G5 Concrete Pump	365.5	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 14	Operator G7 Oiler	2936.3	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 14	Shaft Crane Operator	1680.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 14	Shifter	1041.5	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 14	Teamster G2 Hvy ED 6-8cy, Water<7	11.7	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 14	Teamster G3 ED 8-24cy, Water>7mg;	1283.2	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 14	Toplander	2721.5	10	Sacramento to/from Intake 3	19
TOTAL Intake 3 - Central & Eastern-14		105885.9	360		
Intake 3 - Central & Eastern - 15	Carpenter Foreman	3770.5	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 15	Carpenter Journeyman	19906.7	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 15	Cement Mason Foreman	2988.2	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 15	Cement Mason Journeyman	17371.8	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 15	Iron Worker Foreman	6137.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 15	Iron Worker Journeyman Rebar/Stru	42623.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 15	Laborer Foreman	1685.9	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 15	Laborer G1 Vibrator, Green Cutter	2881.7	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 15	Laborer G2 Concrete Laborer	20898.4	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 15	Laborer G2 General	6649.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 15	Laborer G2 High Pressure Nozzleman	346.4	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 15	Operator G1a Cranes>100 t	230.8	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 15	Operator G2a Cranes 45 to 100 t	190.6	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 15	Operator G3 Loader >4cy	118.8	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 15	Operator G5 Concrete Pump	1440.9	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 15	Operator G7 Oiler	302.6	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 15	Pile Driver Journeyman	475.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 15	Teamster G3 ED 8-24cy, Water>7mg;	4466.3	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 15	Teamster G4 Tractor, Lowbed/Trailei	118.8	10	Sacramento to/from Intake 3	19
TOTAL Intake 3 - Central & Eastern-15		132602.1	190		

Intake 3 - Central & Eastern - 16	Iron Worker-Rigger	13.2	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 16	Laborer G2 General	501.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 16	Laborer G3 Flagman	101.8	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 16	OPERATING ENGINEER FOREMAN	176.2	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 16	Operator G2 Finish Blade	50.9	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 16	Operator G3 BH-Loader>3/4cy	125.2	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 16	Operator G3 Loader >4cy	50.9	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 16	Operator G4 Grade Check	163.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 16	Operator G4a Boom truck<15 ton	13.2	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 16	Operator G5 Asphalt Roller	224.1	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 16	Operator G5 Compactor w-blade	50.9	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 16	Operator G5 Paver	112.1	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 16	Operator G8 Pump	10.2	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 16	Teamster G2 Hwy ED 6-8cy, Water<7	107.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 16	Teamster G3 Boom Truck	13.2	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 16	Teamster G3 ED 8-24cy, Water>7mg;	152.7	10	Sacramento to/from Intake 3	19
TOTAL Intake 3 - Central & Eastern-16		1865.5	160		
Intake 3 - Central & Eastern - 17	Electrical Foreman	45.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 17	Electrician Journeyman	180.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 17	Iron Worker Journeyman Rebar/S	360.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 17	Laborer G2 General	360.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 17	Operator G4a Boom truck<15 ton	180.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 17	Teamster G3 Boom Truck	90.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 17	Teamster G4 Tractor, Lowbed/Tr	400.0	10	Sacramento to/from Intake 3	19
TOTAL Intake 3 - Central & Eastern-17		1615.0	70		
Intake 3 - Central & Eastern - 18	Carpenter Apprentice	1280.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	Carpenter Foreman	1413.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	Carpenter Journeyman	765.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	Carpenter, Bridge and Highway	2560.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	CEMENT MASON	399.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	Cement Mason Foreman	133.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	Electrical Foreman	2113.3	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	Electrician Journeyman	4686.7	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	Iron Worker Foreman	147.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	Iron Worker Journeyman Rebar/Stru	4348.7	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	Iron Worker-Rigger	1500.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	Laborer Foreman	746.3	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	Laborer G1 Pipe layers	1466.7	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	Laborer G1 Vibrator, Green Cutter	133.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	Laborer G2 Concrete Laborer	532.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	Laborer G2 General	5693.3	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	Laborer G3 Fence Builder	52.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	Laborer G3 Flagman	66.3	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	OPERATING ENGINEER FOREMAN	1625.3	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	Operator G1a Cranes>100 t	20.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	Operator G2 Excavator 3.5 to 7.0 cy	1559.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	Operator G2 Finish Blade	1572.1	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	Operator G2a Cranes 45 to 100 t	186.5	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	Operator G3 BH-Loader>3/4cy	1479.7	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	Operator G3 Loader >4cy	56.7	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	Operator G3a Cranes 45 t and under	1655.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	Operator G4 Dozer & Push Cat	2875.9	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	Operator G4 Grade Check	1595.7	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	Operator G4 Hvy Duty Mechanic	33.3	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	Operator G4 Scraper	2501.2	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	Operator G4a Boom truck<15 ton	100.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	Operator G5 Compactor w-blade	1603.3	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	Operator G5 Concrete Pump	26.6	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	Teamster G1 Hwy ED<6cy, Flatbed	146.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	Teamster G2 Hwy ED 6-8cy, Water<7	2294.2	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	Teamster G3 Boom Truck	1380.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	Teamster G3 ED 8-24cy, Water>7mg;	6310.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 18	Teamster G4 Tractor, Lowbed/Traile	395.0	10	Sacramento to/from Intake 3	19
TOTAL Intake 3 - Central & Eastern-18		55450.8	380		
Intake 3 - Central & Eastern - 19	Carpenter Apprentice	923.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 19	Carpenter Foreman	3486.6	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 19	Carpenter Journeyman	1888.2	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 19	Carpenter, Bridge and Highway	923.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 19	CEMENT MASON	82.9	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 19	Cement Mason Foreman	27.6	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 19	Electrical Foreman	165.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 19	Electrician Journeyman	1973.1	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 19	Iron Worker Foreman	72.9	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 19	Iron Worker Journeyman Rebar/Stru	1741.8	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 19	Iron Worker-Rigger	634.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 19	Laborer G1 Vibrator, Green Cutter	27.6	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 19	Laborer G2 Concrete Laborer	110.5	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 19	Laborer G2 General	4229.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 19	Laborer G3 Flagman	50.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 19	Millwright	11430.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 19	OPERATING ENGINEER FOREMAN	50.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 19	Operator G1a Cranes>100 t	634.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 19	Operator G2a Cranes 45 to 100 t	13.8	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 19	Operator G3 Loader >4cy	50.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 19	Operator G3a Cranes 45 t and under	6.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 19	Operator G4 Dozer & Push Cat	50.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 19	Operator G4 Grade Check	50.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 19	Operator G4 Hvy Duty Mechanic	36.9	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 19	Operator G4a Boom truck<15 ton	1223.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 19	Operator G5 Compactor w-blade	50.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 19	Operator G5 Concrete Pump	5.5	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 19	Operator G7 Oller	634.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 19	Pipefitter Apprentice	73.3	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 19	Pipefitter Foreman	36.7	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 19	Pipefitter Journeyman	220.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 19	Teamster G1 Hwy ED<6cy, Flatbed	306.8	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 19	Teamster G2 Hwy ED 6-8cy, Water<7	25.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 19	Teamster G3 ED 8-24cy, Water>7mg;	113.8	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 19	Teamster G4 Tractor, Lowbed/Traile	571.5	10	Sacramento to/from Intake 3	19
TOTAL Intake 3 - Central & Eastern-19		31915.7	350		
Intake 3 - Central & Eastern - 20	Carpenter Apprentice	276.9	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 20	Carpenter Foreman	5431.3	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 20	Carpenter Journeyman	3368.7	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 20	Carpenter, Bridge and Highway	276.9	10	Sacramento to/from Intake 3	19

Intake 3 - Central & Eastern - 20	CEMENT MASON	27.6	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 20	Cement Mason Foreman	9.2	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 20	Dredge Captain	219.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 20	Dredge Tender	687.2	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 20	Electrical Foreman	1020.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 20	Electrician Journeyman	7221.4	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 20	Iron Worker Foreman	5921.6	10	Sacramento to/from Intake 3	19
	Iron Worker Journeyman				
Intake 3 - Central & Eastern - 20	Rebar/Struct	8026.8	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 20	Iron Worker-Rigger	9373.4	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 20	Laborer G1 Vibrator, Green Cutter	9.2	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 20	Laborer G2 Concrete Laborer	36.8	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 20	Laborer G2 General	14542.3	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 20	Laborer G3 Flagman	10.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 20	Millwright	33706.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 20	OPERATING ENGINEER FOREMAN	229.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 20	Operator G1a Cranes>100 t	3126.6	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 20	Operator G2a Cranes 45 to 100 t	2704.6	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 20	Operator G3 Gradall	219.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 20	Operator G3 Loader >4cy	229.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 20	Operator G3a Cranes 45 t and under	10.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 20	Operator G4 Dozer & Push Cat	10.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 20	Operator G4 Grade Check	10.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 20	Operator G4 Hvy Duty Mechanic	52.3	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 20	Operator G4a Boom truck<15 ton	2046.2	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 20	Operator G5 Compactor w-blade	10.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 20	Operator G5 Concrete Pump	1.8	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 20	Operator G7 Oiler	461.2	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 20	Pile Driver Foreman	997.2	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 20	Pipefitter Apprentice	3990.6	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 20	Pipefitter Foreman	2235.3	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 20	Pipefitter Journeyman	9481.1	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 20	Teamster G1 Hwy ED<6cy, Flatbed	4647.8	10	Sacramento to/from Intake 3	19
	Teamster G2 Hwy ED 6-8cy,				
Intake 3 - Central & Eastern - 20	Water<7mgal	5.0	10	Sacramento to/from Intake 3	19
	Teamster G3 ED 8-24cy,				
Intake 3 - Central & Eastern - 20	Water>7mgal	24.6	10	Sacramento to/from Intake 3	19
TOTAL Intake 3 - Central & Eastern-20		120655.5	380		
Intake 3 - Central & Eastern - 21	Laborer Foreman	297.2	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 21	Laborer G4 Clean-up	1188.7	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 21	Operator G1a Cranes>100 t	415.6	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 21	Operator G2a Cranes 45 to 100 t	221.6	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 21	Operator G4a Boom truck<15 ton	151.2	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 21	Pile Driver Journeyman	297.2	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 21	Pile Driver Wharf and Dock	1485.9	10	Sacramento to/from Intake 3	19
TOTAL Intake 3 - Central & Eastern-21		4057.3	70		
Intake 3 - Central & Eastern - 22	Carpenter Journeyman	205.1	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Cement Mason Journeyman	1019.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Electrical Foreman	300.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Electrical Lineman	300.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Iron Worker-Rigger	132.8	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Laborer Foreman	2583.8	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Laborer G1 Pipe layers	3358.7	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Laborer G2 Concrete Laborer	410.3	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Laborer G2 General	12783.8	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Laborer G3 Fence Builder	487.5	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Laborer G3 Flagman	250.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Laborer G6 Gumnite Nozzleman	916.4	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	OPERATING ENGINEER FOREMAN	2558.3	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Operator G1a Cranes>100 t	98.3	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Operator G2 Excavator 3.5 to 7.0 cy	725.7	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Operator G2 Finish Blade	2263.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Operator G2 Plant Operator	405.2	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Operator G2a Cranes 45 to 100 t	98.3	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Operator G3 BH-Loader>3/4cy	3653.8	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Operator G3 Loader >4cy	474.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Operator G3a Cranes 45 t and under	132.8	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Operator G4 BH-Loader <.76cy	132.8	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Operator G4 Dozer & Push Cat	725.7	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Operator G4 Grade Check	1503.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Operator G4 Scraper	274.6	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Operator G4a Boom truck<15 ton	132.8	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Operator G5 Asphalt Roller	170.5	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Operator G5 Compactor w-blade	1292.7	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Operator G5 Curb & Gutter Conc Fini	205.1	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Operator G5 Paver	490.4	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Operator G6 Grout Mach	125.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Operator G7 Oiler	503.5	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Operator G8 Pump	25.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Operator G8a Skidsteer <Bobcat 743	1600.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Teamster G1 Hwy ED<6cy, Flatbed	2330.2	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Teamster G2 Hwy ED 6-8cy, Water<7	4438.1	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Teamster G3 Boom Truck	132.8	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 22	Teamster G3 ED 8-24cy, Water>7mgal	3040.7	10	Sacramento to/from Intake 3	19
TOTAL Intake 3 - Central & Eastern-22		50280.1	380		
Intake 3 - Central & Eastern - 23	Carpenter Foreman	240.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 23	Laborer Foreman	200.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 23	Laborer G2 General	240.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 23	Laborer G4 Clean-up	1200.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 23	Millwright	480.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 23	Operator G2a Cranes 45 to 100 t	33.8	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 23	Operator G4a Boom truck<15 ton	200.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 23	Operator G6 Tractor	200.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 23	Operator G7 Oiler	33.8	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 23	Operator G8 Pump	200.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 23	Operator G8a Skidsteer <Bobcat 743	200.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 23	Pipefitter Apprentice	260.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 23	Pipefitter Foreman	260.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 23	Pipefitter Journeyman	1040.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 23	Teamster G1 Hwy ED<6cy, Flatbed	257.8	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 23	Teamster G2 Hwy ED 6-8cy, Water<7	200.0	10	Sacramento to/from Intake 3	19
TOTAL Intake 3 - Central & Eastern-23		5245.4	160		
Intake 3 - Central & Eastern - 24	Laborer Foreman	302.4	10	Sacramento to/from Intake 3	19

Intake 3 - Central & Eastern - 24	Laborer G4 Clean-up	1814.4	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 24	Operator G4a Boom truck<15 ton	604.8	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 24	Operator G6 Tractor	302.4	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 24	Operator G8 Pump	302.4	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 24	Operator G8a Skidsteer <Bobcat 743	302.4	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 24	Teamster G1 Hwy ED<6cy, Flatbed	302.4	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 24	Teamster G2 Hwy ED 6-8cy, Water<7	302.4	10	Sacramento to/from Intake 3	19
TOTAL Intake 3 - Central & Eastern-24		4233.6	80		
Intake 3 - Central & Eastern - 25	Laborer G2 General	20.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 25	Laborer G3 Flagman	440.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 25	OPERATING ENGINEER FOREMAN	335.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 25	Operator G2 Finish Blade	70.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 25	Operator G3 Loader >4cy	20.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 25	Operator G4 Dozer & Push Cat	900.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 25	Operator G4 Scraper	400.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 25	Operator G6 Tractor	170.0	10	Sacramento to/from Intake 3	19
Intake 3 - Central & Eastern - 25	Teamster G2 Hwy ED 6-8cy, Water<7	255.0	10	Sacramento to/from Intake 3	19
TOTAL Intake 3 - Central & Eastern-25		2610.0	90		

Marine Inventory for Intake 3_3000 cfs_Central & Eastern
Options 1B, 2B, 7B, 8B, 9B, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
Intake 3 - Central & Eastern - 20	Rock from Stockton and Dredged Soil to Stockton No docks at Intake	2 barges (one with rock and one with equipment) with 2 tugboats will make 3 round trips							

Assume 87 miles/round trip; 9 mph empty and 6 mph loaded per Barges TM

Locomotive Inventory for Intake
Options 1B, 2B, 7B, 8B, 9B, 10B

NOT NEEDED

**Helicopter Inventory for Intake 3_3000 cfs_Central & Eastern
Options 1B, 2B, 7B, 8B, 9B, 10B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Intake 3_3000 cfs_Central & Eastern
Options 1B, 2B, 7B, 8B, 9B, 10B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
Intake 3 - Central & Eastern - 1	240	64	3.8	3085	14	100	2			190080	864
Intake 3 - Central & Eastern - 3		220				43856	199				
Intake 3 - Central & Eastern - 4		252				0	0				
Intake 3 - Central & Eastern - 6	2.27	26	0.0	425079	16349	121200	4662		51		
Intake 3 - Central & Eastern - 7		446		610686	1369	634177	1422				
Intake 3 - Central & Eastern - 8		144		36327	186						
Intake 3 - Central & Eastern - 9	195	97303	499								
Intake 3 - Central & Eastern - 10	2	4592	2296								
Intake 3 - Central & Eastern - 12		65		94805	190	3930	60				
Intake 3 - Central & Eastern - 13	500	88913				178					
Intake 3 - Central & Eastern - 14	513	0				0					
Intake 3 - Central & Eastern - 15		210				29823	142			248931	9574
Intake 3 - Central & Eastern - 16	26	3518				135					
Intake 3 - Central & Eastern - 18	281	757971				2697	645709				
Intake 3 - Central & Eastern - 19		234		757971	2697	0	0				
Intake 3 - Central & Eastern - 20	278	8701				31					
Intake 3 - Central & Eastern - 22	371	2000				5					
Intake 3 - Central & Eastern - 23		45	1.8			400	9		26	460368	1241
Intake 3 - Central & Eastern - 25	121	69									

**Demolition Assumptions for Intake 3_3000 cfs_Central & Eastern
Options 1B, 2B, 7B, 8B, 9B, 10B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

**Construction Schedule for Intake 5_3000 cfs_Central & Eastern
Options 1B, 2B, 5B, 6B, 9B, 10B - Tee Screens**

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Development of Initial Intake Box Culverts & Gantry Crane	Intake 5 - Central & Eastern - 1	1/1/2026	3/29/2026	64	5	10
Initial Temporary Buildings	Intake 5 - Central & Eastern - 2	4/2/2029	3/3/2030	240	5	10
Phase 1 Sitework	Intake 5 - Central & Eastern - 3	3/4/2030	2/20/2031	253	5	10
Operations of Temporary Buildings	Intake 5 - Central & Eastern - 4	3/4/2030	8/9/2035	1418	5	10
Phase 2 Sitework - Foundations	Intake 5 - Central & Eastern - 5	10/25/2029	3/29/2031	520	5	10
Initial Roads and Move SR 160	Intake 5 - Central & Eastern - 6	10/3/2030	11/17/2030	33	5	10
Install Cofferdam	Intake 5 - Central & Eastern - 7	11/17/2030	9/8/2031	211	5	10
Construct Reception Shaft	Intake 5 - Central & Eastern - 8	2/27/2031	10/23/2031	164	5	10
Place Tremie Seal in Reception Shaft	Intake 5 - Central & Eastern - 9	10/26/2031	10/28/2031	3	5	10
Dewater Reception Shaft	Intake 5 - Central & Eastern - 10	10/29/2031	11/4/2031	5	2	24
Assemble Reception Shaft	Intake 5 - Central & Eastern - 11	11/5/2031	3/1/2032	84	5	10
Intake Structure within Cofferdam	Intake 5 - Central & Eastern - 12	7/24/2031	12/9/2033	360	5	10
Piles and Concrete in Sedimentation Basin	Intake 5 - Central & Eastern - 13	11/7/2031	10/20/2032	249	5	10
Intake Connections and Gates	Intake 5 - Central & Eastern - 14	1/10/2032	12/7/2033	597	5	10
Sedimentation Basin Mechanical and Electrical	Intake 5 - Central & Eastern - 15	10/6/2032	10/19/2033	270	5	10
Finish Box Culverts	Intake 5 - Central & Eastern - 16	10/27/2032	11/9/2032	9	5	10
Install Fish Screen, Appurtenant Facilities, Log Boom, and Rip Rap	Intake 5 - Central & Eastern - 17	5/25/2033	9/15/2034	342	5	10
Move SR 160 to Final Location	Intake 5 - Central & Eastern - 18	6/20/2033	8/12/2033	39	5	10
Basin Embankments, Gates, Buildings, and Substation	Intake 5 - Central & Eastern - 19	8/12/2033	7/31/2034	253	5	10
Remove Cofferdam - Phase 1	Intake 5 - Central & Eastern - 20	1/24/2034	5/29/2034	91	5	10
Remove Cofferdam - Phase 2	Intake 5 - Central & Eastern - 21	11/1/2035	1/8/2036	51	5	10
Finish Site Work, Sedimentation Basin Curtain, and Fencing	Intake 5 - Central & Eastern - 22	6/20/2034	4/27/2035	223	5	10
Finish Intake Exteriors	Intake 5 - Central & Eastern - 23	10/26/2034	8/9/2035	205	5	10
Site Restoration	Intake 5 - Central & Eastern - 24	12/21/2034	3/23/2035	67	5	10
Finish Sedimentation Basin	Intake 5 - Central & Eastern - 25	3/1/2035	5/10/2035	51	5	10

Total Site Acres

240

Vehicle Inventory for Intake 5_3000 cfs_Central & Eastern

Options 1B, 2B, 5B, 6B, 9B, 10B

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Code	Equipment Name	General Equipment C	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
Intake 5 - Central & Eastern - 1	Grove RT Crane 30T	Crane	240	64	3.8	Diesel	160	0.29		
Intake 5 - Central & Eastern - 2	400A Diesel Welder, Trailer Mounted	Welders	41.67	240	0.2	Diesel	22	0.45		
Intake 5 - Central & Eastern - 2	Air Compressor 185 cfm	Air Compressor	2646.11	240	11.0	Diesel Tier 4	49	0.48		
Intake 5 - Central & Eastern - 2	Boom Truck, 12.5 Tn Boom	Crane	2473	240	10.3	Diesel or Hybrid	100	0.29		
Intake 5 - Central & Eastern - 2	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loader	266.67	240	1.1	Diesel	110	0.36		
Intake 5 - Central & Eastern - 2	CAT 12 M	Grader	1430	240	6.0	Diesel	173	0.41		
Intake 5 - Central & Eastern - 2	CAT 14 M	Grader	162.5	240	0.7	Diesel	274	0.41		
Intake 5 - Central & Eastern - 2	Cat 613 C Self Loading Scraper	Scraper	120	240	0.5	Diesel	187	0.48		
Intake 5 - Central & Eastern - 2	CAT 631G Scraper, Conventional	Scraper	169	240	0.7	Diesel	515	0.48		
Intake 5 - Central & Eastern - 2	CAT 815, Roller	Roller	56.2	240	0.2	Diesel	170	0.38		
Intake 5 - Central & Eastern - 2	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	275	240	1.1	Diesel or Hybrid	130	0.36		
Intake 5 - Central & Eastern - 2	CAT 962 H Wheel Loader	Rubber Tired Loader	74.4	240	0.3	Diesel	230	0.36		
Intake 5 - Central & Eastern - 2	CAT CS-74, Roller, 17 tn, 156 HP	Rollers	1570.7	240	6.5	Diesel	156	0.38		
Intake 5 - Central & Eastern - 2	CAT D3 LGP, Dozer	Crawler Tractor	17.6	240	0.1	Diesel or Hybrid	76	0.43		
Intake 5 - Central & Eastern - 2	CAT D6LGPDozer w winch	Crawler Tractor	116.2	240	0.5	Diesel or Hybrid	179	0.43		
Intake 5 - Central & Eastern - 2	CAT D9R, Dozer w ripper	Crawler Tractor	56.2	240	0.2	Diesel	410	0.43		
Intake 5 - Central & Eastern - 2	CAT Forklift 5,500 LB	Aerial Lift	9744.8	240	40.6	Diesel	63	0.31		
Intake 5 - Central & Eastern - 2	CAT LOADER/HOE 416 E	Rubber Tired Loaders	2867.7	240	11.9	Diesel	78	0.36		
Intake 5 - Central & Eastern - 2	Compactor, Plate, 22" w x 35"	Plate Compactors	133.33	240	0.6	Diesel	8.5	0.43		
Intake 5 - Central & Eastern - 2	Compactor, Trench Roller, Vib 32" w	Rollee	9.5	240	0.0	Diesel	20	0.38		
Intake 5 - Central & Eastern - 2	Concrete Vibrator, 2"	Other Construction Eq	41.67	240	0.2	Gasoline	3	0.42		
Intake 5 - Central & Eastern - 2	Disk, Towed	Off Highway Tractor	56.2	240	0.2	Diesel	140	0.44		
Intake 5 - Central & Eastern - 2	Grove RT Crane 55T, 247 hp	Crane	83.3	240	0.3	Diesel	247	0.29		
Intake 5 - Central & Eastern - 2	Grove RT Crane 30T	Crane	9871.3	240	41.1	Diesel	160	0.29		
Intake 5 - Central & Eastern - 2	Grove RT Crane 80T, 275hp	Crane	360	240	1.5	Diesel	275	0.29		
Intake 5 - Central & Eastern - 2	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	9.3	240	0.0	Diesel	345	0.38		
Intake 5 - Central & Eastern - 2	Light Plant, 4 lte, 1000w, Tower/Mast	Generator	224.9	240	0.9	Diesel	12	0.74		
Intake 5 - Central & Eastern - 2	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	2646.1	240	11.0	Diesel	75	0.31		
Intake 5 - Central & Eastern - 2	Portable, 20 Kw, Diesel, 36HP	Welders	41.67	240	0.2	Diesel Tier 4	36	0.45		
Intake 5 - Central & Eastern - 2	Water Pump, 4" Diesel	Pumps	66.8	240	0.3	Diesel	10	0.74		
Intake 5 - Central & Eastern - 2	Water Pump, 3" Gas, Diaphragm	Pumps	41.67	240	0.2	Gasoline	10	0.74		
Intake 5 - Central & Eastern - 3	Air Compressor 185 cfm	Air Compressor	200	253	0.8	Diesel Tier 4	49	0.48		
Intake 5 - Central & Eastern - 3	Air Compressor 375 cfm	Air Compressor	6325	253	52.1	Diesel Tier 4	122	0.48		
Intake 5 - Central & Eastern - 3	Boom Truck, 12.5 Tn Boom	Crane	320	253	1.3	Diesel or Hybrid	100	0.29		
Intake 5 - Central & Eastern - 3	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loader	6325	253	52.1	Diesel	110	0.36		
Intake 5 - Central & Eastern - 3	CAT 12 M	Grader	8.85	253	0.0	Diesel	173	0.41		
Intake 5 - Central & Eastern - 3	CAT 14 M	Grader	1445.2	253	5.7	Diesel	274	0.41		
Intake 5 - Central & Eastern - 3	CAT 311, 0.69 cy, 70 hp	Excavator	120	253	0.5	Diesel	70	0.38		
Intake 5 - Central & Eastern - 3	Cat 613 C Self Loading Scraper	Scraper	2359	253	9.3	Diesel	187	0.48		
Intake 5 - Central & Eastern - 3	CAT 825, Roller	Roller	1107	253	4.4	Diesel	315	0.38		
Intake 5 - Central & Eastern - 3	CAT 962 H Wheel Loader	Rubber Tired Loader	16.5	253	0.1	Diesel	230	0.36		
Intake 5 - Central & Eastern - 3	CAT CS-74, Roller, 17 tn, 156 HP	Rollers	180.8	253	0.7	Diesel	156	0.38		
Intake 5 - Central & Eastern - 3	CAT D3 LGP, Dozer	Crawler Tractor	314.8	253	1.2	Diesel or Hybrid	76	0.43		
Intake 5 - Central & Eastern - 3	CAT D6LGPDozer w winch	Crawler Tractor	27152	253	107.3	Diesel or Hybrid	179	0.43		
Intake 5 - Central & Eastern - 3	CAT IT28H, 10640 LB Tool Carrier	Rubber Tired Loaders	434.8	253	1.7	Diesel	145	0.36		
Intake 5 - Central & Eastern - 3	Disk, Towed	Off Highway Tractor	2172	253	8.6	Diesel	140	0.44		
Intake 5 - Central & Eastern - 3	DMM Deep Soil Mixer, 3 Shaft, 808 HP	Bore/Drill Rigs	6325	253	52.1	Diesel	808	0.5		
Intake 5 - Central & Eastern - 3	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	6325	253	52.1	Diesel	500	0.34		
Intake 5 - Central & Eastern - 3	Grove RT Crane 30T	Crane	6325	253	52.1	Diesel	160	0.29		
Intake 5 - Central & Eastern - 3	Grove RT Crane 15T, 100hp	Crane	120	253	0.5	Diesel	100	0.29		
Intake 5 - Central & Eastern - 3	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	1143	253	4.5	Diesel	384	0.38		
Intake 5 - Central & Eastern - 3	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	320	253	1.3	Diesel	75	0.31		
Intake 5 - Central & Eastern - 3	Portable, 90 Kw, Diesel, 158HP	Welders	13193.2	253	52.1	Diesel Tier 4	158	0.45		
Intake 5 - Central & Eastern - 3	Water Pump, 4" Diesel	Pumps	619.6	253	2.4	Diesel	10	0.74		
Intake 5 - Central & Eastern - 3	Water Pump, 3" Gas, Diaphragm	Pumps	314.8	253	1.2	Gasoline	10	0.74		
Intake 5 - Central & Eastern - 3	Well Drill	Bore/Drill Rigs	733.6	253	2.9	Diesel	136	0.5		
Intake 5 - Central & Eastern - 4	CAT LOADER/HOE 416 E	Rubber Tired Loaders	393.5	1418	0.3	Diesel	78	0.36		
Intake 5 - Central & Eastern - 4	Disk, Towed	Off Highway Tractor	393.5	1418	0.3	Diesel	140	0.44		
Intake 5 - Central & Eastern - 4	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	1967.8	1418	1.4	Diesel	80	0.44		
Intake 5 - Central & Eastern - 5	400A Diesel Welder, Trailer Mounted	Welders	62.2	920	0.1	Diesel	22	0.45		
Intake 5 - Central & Eastern - 5	Air Compressor 375 cfm	Air Compressor	22140	920	27	Diesel Tier 4	122	0.48		
Intake 5 - Central & Eastern - 5	Bobcat S630 Skid Steer Loader	Skid Loader	69	920	0.1	Diesel	74	0.37		
Intake 5 - Central & Eastern - 5	Brush Chipper, 18" Cap., Trailer Mtd. 173hp	Other Construction	43.1	920	0.0	Diesel	173	0.42		
Intake 5 - Central & Eastern - 5	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	22140	920	27	Diesel	110	0.36		
Intake 5 - Central & Eastern - 5	CAT 12 M	Grader	35.3	920	0.0	Diesel	173	0.41		
Intake 5 - Central & Eastern - 5	CAT 14 M	Grader	3680	920	4	Diesel	274	0.41		
Intake 5 - Central & Eastern - 5	CAT 320D, 1.56 cy, 153 hp	Excavator	43.1	920	0.0	Diesel	138	0.38		
Intake 5 - Central & Eastern - 5	Cat 613 C Self Loading Scraper	Scraper	5520	920	6	Diesel	187	0.48		
Intake 5 - Central & Eastern - 5	CAT 825, Roller	Roller	2760	920	3	Diesel	315	0.38		
Intake 5 - Central & Eastern - 5	CAT 950 H Wheel Loader	Rubber Tired Loaders	34.5	920	0.0	Diesel or Hybrid	130	0.36		
Intake 5 - Central & Eastern - 5	CAT 962 H Wheel Loader	Rubber Tired Loader	135.9	920	0.1	Diesel	230	0.36		
Intake 5 - Central & Eastern - 5	CAT 980 H Wheel Loader	Rubber Tired Loader	242.2	920	0.3	Diesel	393	0.36		
Intake 5 - Central & Eastern - 5	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	32.2	920	0.0	Diesel	158	0.38		
Intake 5 - Central & Eastern - 5	CAT CS-74, Roller, 17 tn, 156 HP	Rollers	2760	920	3	Diesel	156	0.38		
Intake 5 - Central & Eastern - 5	CAT D3 LGP, Dozer	Crawler Tractor	17.2	920	0.0	Diesel or Hybrid	76	0.43		
Intake 5 - Central & Eastern - 5	CAT D6LGPDozer w winch	Crawler Tractor	9200	920	10	Diesel or Hybrid	179	0.43		
Intake 5 - Central & Eastern - 5	CAT LOADER/HOE 416 E	Rubber Tired Loaders	34.5	920	0.0	Diesel	78	0.36		
Intake 5 - Central & Eastern - 5	Disk, Towed	Off Highway Tractor	8280	920	9	Diesel	140	0.44		
Intake 5 - Central & Eastern - 5	DMM Deep Soil Mixer, 3 Shaft, 808 HP	Bore Drill Rig	24840	920	27	Diesel	808	0.5		
Intake 5 - Central & Eastern - 5	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	24840	920	27	Diesel	500	0.34		
Intake 5 - Central & Eastern - 5	Grove RT Crane 30T	Crane	24840	920	27	Diesel	160	0.29		
Intake 5 - Central & Eastern - 5	Grove RT Crane 55T, 247 hp	Crane	62.2	920	0.1	Diesel	247	0.29		
Intake 5 - Central & Eastern - 5	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	2760	920	3	Diesel	384	0.38		
Intake 5 - Central & Eastern - 5	Light Plant, 4 lte, 1000w, Tower/Mast	Generator	43.1	920	0.0	Diesel	12	0.74		
Intake 5 - Central & Eastern - 5	Manitowoc 555 150T, 250' Boom	Crane	112.2	920	0.1	Diesel	760	0.29		
Intake 5 - Central & Eastern - 5	Portable, 20 Kw, Diesel, 36HP	Welders	407	920	0.4	Diesel Tier 4	36	0.45		
Intake 5 - Central & Eastern - 5	Portable, 90 Kw, Diesel, 158HP	Welders	2760	920	3	Diesel Tier 4	158	0.45		
Intake 5 - Central & Eastern - 5	Vibro Driver/Extractor V20B	Other Construction Eq	62.2	920	0.1	Diesel	325	0.42		
Intake 5 - Central & Eastern - 5	Water Pump, 4" Diesel	Pumps	1017.2	920	1.1	Diesel	10	0.74		
Intake 5 - Central & Eastern - 6	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	91.3	33	3	Diesel or Hybrid	224	0.42		
Intake 5 - Central & Eastern - 6	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	91.3	33	3	Diesel or Hybrid	137	0.38		
Intake 5 - Central & Eastern - 6	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	91.3	33	3	Diesel or Hybrid	133	0.38		
Intake 5 - Central & Eastern - 6	Boom Truck, 12.5 Tn Boom	Crane	27.9	33	0.8	Diesel or Hybrid	100	0.29		
Intake 5 - Central & Eastern - 6	CAT 14 M	Grader	38.1	33	1.2	Diesel	274	0.41		
Intake 5 - Central & Eastern - 6	CAT 962 H Wheel Loader	Rubber Tired Loader	38.1	33	1.2	Diesel	230	0.36		
Intake 5 - Central & Eastern - 6	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	38.1	33	1.2	Diesel	158	0.38		

Intake 5 - Central & Eastern - 6	CAT LOADER/HOE 416 E	Rubber Tired Loaders	119.1	33	3.6	Diesel	78	0.36
Intake 5 - Central & Eastern - 7	400A Diesel Welder, Trailer Mounted	Welders	2348.9	211	11.1	Diesel	22	0.45
Intake 5 - Central & Eastern - 7	Air Compressor 375 cfm	Air Compressor	2099	211	9.9	Diesel Tier 4	122	0.48
Intake 5 - Central & Eastern - 7	Grove RT Crane 55T, 247 hp	Crane	2349	211	11.1	Diesel	247	0.29
Intake 5 - Central & Eastern - 7	Light Plant, 4 llt, 1000w, Tower/Mast	Generator	3368.4	211	16.0	Diesel	12	0.74
Intake 5 - Central & Eastern - 7	Manitowoc 555 150T, 250' Boom	Crane	2349	211	11.1	Diesel	760	0.29
Intake 5 - Central & Eastern - 7	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	2245.6	211	10.6	Diesel	75	0.31
Intake 5 - Central & Eastern - 7	Portable, 20 Kw, Diesel, 36HP	Welders	2349	211	11.1	Diesel Tier 4	36	0.45
Intake 5 - Central & Eastern - 7	Vibro Driver/Extractor V20B	Other Construction Eq	2349	211	11.1	Diesel	325	0.42
Intake 5 - Central & Eastern - 8	1600 CFM Compressor Diesel	Air Compressor	211	164	1.3	Diesel Tier 4	540	0.74
Intake 5 - Central & Eastern - 8	250 CFM Compressor Diesel	Air Compressor	4	164	0.0	Diesel Tier 3	75	0.74
Intake 5 - Central & Eastern - 8	CAT 950 H Wheel Loader	Rubber Tired Loaders	452.5	164	2.8	Diesel or Hybrid	130	0.36
Intake 5 - Central & Eastern - 8	CAT 980 H Wheel Loader	Rubber Tired Loader	27.9	164	0.2	Diesel	393	0.36
Intake 5 - Central & Eastern - 8	CAT CB-634D Vibratory 84"	Rollers	1264.3	164	7.7	Diesel	145	0.38
Intake 5 - Central & Eastern - 8	CAT D8 Dozer	Crawler Tractor	1292.2	164	7.9	Diesel	328	0.43
Intake 5 - Central & Eastern - 8	CAT Grader 16H	Graders	1292.2	164	7.9	Diesel	285	0.41
Intake 5 - Central & Eastern - 8	CAT Hyd Excavator 1CY	Excavator	241.5	164	1.5	Diesel	138	0.38
Intake 5 - Central & Eastern - 8	Hydraulic 55 Ton Crane	Crane	422	164	2.6	Diesel	350	0.29
Intake 5 - Central & Eastern - 8	Hydraulic 40 Ton Crane	Crane	36	164	0.2	Diesel	350	0.29
Intake 5 - Central & Eastern - 8	Hydraulic Excavator to 3.5	Crane	235.5	164	1.4	Diesel	350	0.29
Intake 5 - Central & Eastern - 8	Manitowoc 200 Ton Crane	Crane	211	164	1.3	Diesel	760	0.29
Intake 5 - Central & Eastern - 8	Manitowoc 777 200 Ton Crane	Crane	553	164	3.4	Diesel	760	0.29
Intake 5 - Central & Eastern - 8	Slurry Wall Mixer & Desander & Stop End &	Cement & Mortar Mix	211	164	1	Diesel	8	0.56
Intake 5 - Central & Eastern - 8	Slurry Wall Techniwell	Pumps	211	164	1	Diesel	500	0.74
Intake 5 - Central & Eastern - 9	Hydraulic 25 Ton Crane	Crane	76.5	3	25.5	Diesel	100	0.29
Intake 5 - Central & Eastern - 10	150 KW Diesel Generator	Generator	100	5	20	Diesel Tier 4	183	0.74
Intake 5 - Central & Eastern - 10	Hydraulic 15 Ton Crane	Crane	100	5	20	Diesel	100	0.29
Intake 5 - Central & Eastern - 10	Water Pump, 6" Diesel	Pumps	400	5	80.0	Diesel	13	0.74
Intake 5 - Central & Eastern - 11	Air Compressor 250 cfm	Air Compressor	661.7	84	7.9	Diesel Tier 4	75	0.48
Intake 5 - Central & Eastern - 11	Hydraulic 9 Ton Crane	Crane	60	84	1	Diesel	100	0.29
Intake 5 - Central & Eastern - 11	Manitowoc 777 200 Ton Crane	Crane	228.7	84	2.7	Diesel	760	0.29
Intake 5 - Central & Eastern - 11	Manitowoc 999-275 Ton Crane	Crane	208	84	2.5	Diesel	900	0.29
Intake 5 - Central & Eastern - 11	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	348.2	84	4.1	Diesel Tier 4	210	0.38
Intake 5 - Central & Eastern - 12	400A Diesel Welder, Trailer Mounted	Welders	2205	360	6.1	Diesel	22	0.45
Intake 5 - Central & Eastern - 12	Air Compressor 185 cfm	Air Compressor	603	360	1.7	Diesel Tier 4	49	0.48
Intake 5 - Central & Eastern - 12	Air Compressor 375 cfm	Air Compressor	4343.5	360	12.1	Diesel Tier 4	122	0.48
Intake 5 - Central & Eastern - 12	Air Compressor 900 cfm	Air Compressor	4330	360	12.0	Diesel Tier 4	300	0.48
Intake 5 - Central & Eastern - 12	Auger, Drilled Pier, 48-60", 484 Hp	Bore/Drill Rigs	4098.5	360	11.4	Diesel	137	0.38
Intake 5 - Central & Eastern - 12	Bentonite Mix Plant/Desander	Cement & Mortar Mix	4098.5	360	11.4	Diesel Tier 4	100	0.56
Intake 5 - Central & Eastern - 12	Bobcat S630 Skid Steer Loader	Skid Loader	2049.3	360	5.7	Diesel	74	0.37
Intake 5 - Central & Eastern - 12	Boom Truck, 12.5 Tn Boom	Crane	301.5	360	0.8	Diesel or Hybrid	100	0.29
Intake 5 - Central & Eastern - 12	CAT 14 M	Grader	26.6	360	0.1	Diesel	274	0.41
Intake 5 - Central & Eastern - 12	CAT 815, Roller	Roller	53.2	360	0.1	Diesel	170	0.38
Intake 5 - Central & Eastern - 12	CAT 950 H Wheel Loader	Rubber Tired Loaders	4979.2	360	13.8	Diesel or Hybrid	130	0.36
Intake 5 - Central & Eastern - 12	CAT 966 GII Wheel Loader	Rubber Tired Loaders	1418.9	360	3.9	Diesel	286	0.36
Intake 5 - Central & Eastern - 12	CAT D3 LGP, Dozer	Crawler Tractor	2049.3	360	5.7	Diesel or Hybrid	76	0.43
Intake 5 - Central & Eastern - 12	CAT D6LGPDozer w winch	Crawler Tractor	4204.9	360	11.7	Diesel or Hybrid	179	0.43
Intake 5 - Central & Eastern - 12	CAT DBRII, Dozer w winch	Crawler Tractor	250.3	360	0.7	Diesel	310	0.43
Intake 5 - Central & Eastern - 12	CAT LOADER/HOE 416 E	Rubber Tired Loaders	410	360	1.1	Diesel	78	0.36
Intake 5 - Central & Eastern - 12	Other Construction Eq	Concrete Vibrator, 2"	5880	360	16.3	Gasoline	3	0.42
Intake 5 - Central & Eastern - 12	Grove RT Crane 30T	Crane	1024.6	360	2.8	Diesel	160	0.29
Intake 5 - Central & Eastern - 12	Grove RT Crane 55T, 247 hp	Crane	9648.8	360	26.8	Diesel	247	0.29
Intake 5 - Central & Eastern - 12	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	53.2	360	0.1	Diesel	384	0.38
Intake 5 - Central & Eastern - 12	Light Plant, 4 llt, 1000w, Tower/Mast	Generator	388	360	1.1	Diesel	12	0.74
Intake 5 - Central & Eastern - 12	Manitowoc 555 150T, 250' Boom	Crane	15662.3	360	43.5	Diesel	760	0.29
Intake 5 - Central & Eastern - 12	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	301.5	360	0.8	Diesel	75	0.31
Intake 5 - Central & Eastern - 12	Portable, 20 Kw, Diesel, 36HP	Welders	245	360	0.7	Diesel Tier 4	36	0.45
Intake 5 - Central & Eastern - 12	Portable, 90 Kw, Diesel, 158HP	Welders	1960	360	5.4	Diesel Tier 4	158	0.45
Intake 5 - Central & Eastern - 12	Pug Mill, 400 cy/hr, w200 kw Gen	Generators	215.7	360	0.6	Diesel Tier 4	300	0.74
Intake 5 - Central & Eastern - 12	Tremie Plant	Cement & Mortar Mix	2140.9	360	5.9	Diesel	500	0.56
Intake 5 - Central & Eastern - 12	Water Pump, 6" Diesel	Pumps	4098.5	360	11.4	Diesel	13	0.74
Intake 5 - Central & Eastern - 12	Water Pump, 10" Diesel	Pumps	1092	360	3.0	Diesel	200	0.74
Intake 5 - Central & Eastern - 13	400A Diesel Welder, Trailer Mounted	Welders	2010	249	8.1	Diesel	22	0.45
Intake 5 - Central & Eastern - 13	Air Compressor 900 cfm	Air Compressor	4020	249	16.1	Diesel Tier 4	300	0.48
Intake 5 - Central & Eastern - 13	CAT 973 Track Loader, 4.2 cy, 263hp	Skid Loader	118.8	249	0.5	Diesel or Hybrid	210	0.37
Intake 5 - Central & Eastern - 13	Concrete Vibrator, 2"	Other Construction Eq	6101.9	249	24.5	Gasoline	3	0.42
Intake 5 - Central & Eastern - 13	Grove RT Crane 55T, 247 hp	Crane	220.6	249	0.9	Diesel	247	0.29
Intake 5 - Central & Eastern - 13	Manitowoc 555 150T, 250' Boom	Crane	6260.8	249	25.1	Diesel	760	0.29
Intake 5 - Central & Eastern - 13	Pile Hammer/Vulcan, Single 50k Ft-LB w Comp	Other Construction Eq	118.8	249	0.5	Diesel	210	0.42
Intake 5 - Central & Eastern - 13	Portable, 90 Kw, Diesel, 158HP	Welders	2010	249	8.1	Diesel Tier 4	158	0.45
Intake 5 - Central & Eastern - 13	Water Pump, 4" Diesel	Pumps	4020	249	16.1	Diesel	10	0.74
Intake 5 - Central & Eastern - 14	Air Compressor 250 cfm	Air Compressor	1680	597	2.8	Diesel Tier 4	75	0.48
Intake 5 - Central & Eastern - 14	400A Diesel Welder, Trailer Mounted	Welders	978.8	597	1.6	Diesel	22	0.45
Intake 5 - Central & Eastern - 14	Air Compressor 900 cfm	Air Compressor	1957.6	597	3.3	Diesel Tier 4	300	0.48
Intake 5 - Central & Eastern - 14	CAT 12 M	Grader	70.5	597	0.1	Diesel	173	0.41
Intake 5 - Central & Eastern - 14	CAT 953 Track Loader, 2.25cy, 148hp	Skid Loader	454	597	0.8	Diesel or Hybrid	148	0.37
Intake 5 - Central & Eastern - 14	CAT 973 Track Loader, 4.2 cy, 263hp	Skid Loader	225	597	0.4	Diesel or Hybrid	263	0.37
Intake 5 - Central & Eastern - 14	CAT 980 H Wheel Loader	Rubber Tired Loader	424.8	597	0.7	Diesel	393	0.36
Intake 5 - Central & Eastern - 14	CAT D3 LGP, Dozer	Crawler Tractor	1189.9	597	2.0	Diesel or Hybrid	76	0.43
Intake 5 - Central & Eastern - 14	CAT D6LGPDozer w winch	Crawler Tractor	282	597	0.5	Diesel or Hybrid	179	0.43
Intake 5 - Central & Eastern - 14	Compactor, Trench Roller, Vib 32"w	Roller	907.9	597	1.5	Diesel	20	0.38
Intake 5 - Central & Eastern - 14	Concrete Vibrator, 2"	Other Construction Eq	3047.3	597	5.1	Gasoline	3	0.42
Intake 5 - Central & Eastern - 14	Grove RT Crane 55T, 247 hp	Crane	2994.7	597	5.0	Diesel	247	0.29
Intake 5 - Central & Eastern - 14	Generator 500 kw	Generators	2241.5	597	3.8	Diesel Tier 4	670	0.74
Intake 5 - Central & Eastern - 14	Hydraulic 9 Ton Crane	Crane	1238.8	597	2.1	Diesel	85	0.29
Intake 5 - Central & Eastern - 14	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	735.9	597	1.2	Diesel	384	0.38
Intake 5 - Central & Eastern - 14	Manitowoc 555 150T, 250' Boom	Crane	3378.4	597	5.7	Diesel	760	0.29
Intake 5 - Central & Eastern - 14	Pile Hammer/Vulcan, Single 50k Ft-LB w Comp	Other Construction Eq	225	597	0.4	Diesel	210	0.42
Intake 5 - Central & Eastern - 14	Portable, 20 Kw, Diesel, 36HP	Welders	978.8	597	1.6	Diesel Tier 4	36	0.45
Intake 5 - Central & Eastern - 14	Water Pump, 4" Diesel	Pumps	56.4	597	0.1	Diesel	10	0.74
Intake 5 - Central & Eastern - 15	400A Diesel Welder, Trailer Mounted	Welders	4578.9	270	17.0	Diesel	22	0.45
Intake 5 - Central & Eastern - 15	Air Compressor 185 cfm	Air Compressor	923	270	3.4	Diesel Tier 4	49	0.48
Intake 5 - Central & Eastern - 15	Bobcat S630 Skid Steer Loader	Skid Loader	200	270	0.7	Diesel	74	0.37
Intake 5 - Central & Eastern - 15	Boom Truck, 12.5 Tn Boom	Crane	1423	270	5.3	Diesel or Hybrid	100	0.29
Intake 5 - Central & Eastern - 15	CAT 950 H Wheel Loader	Rubber Tired Loaders	50	270	0.2	Diesel or Hybrid	130	0.36
Intake 5 - Central & Eastern - 15	CAT CS-74, Roller, 17 tn, 156 HP	Rollers	50	270	0.2	Diesel	156	0.38

Intake 5 - Central & Eastern - 15	CAT D3 LGP, Dozer	Crawler Tractor	50	270	0.2	Diesel or Hybrid	76	0.43
Intake 5 - Central & Eastern - 15	Concrete Vibrator, 2"	Other Construction Eq	13.8	270	0.1	Gasoline	3	0.42
Intake 5 - Central & Eastern - 15	Grove RT Crane 30T	Crane	6	270	0.0	Diesel	160	0.29
Intake 5 - Central & Eastern - 15	Grove RT Crane 55T, 247 hp	Crane	13.8	270	0.1	Diesel	247	0.29
Intake 5 - Central & Eastern - 15	Manitowoc 555 150T, 250' Boom	Crane	634	270	2.3	Diesel	760	0.29
Intake 5 - Central & Eastern - 15	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	1324.7	270	4.9	Diesel	75	0.31
Intake 5 - Central & Eastern - 15	Portable, 20 Kw, Diesel, 36HP	Welders	6.9	270	0.0	Diesel Tier 4	36	0.45
Intake 5 - Central & Eastern - 15	Water Pump,3" Gas, Diaphragm	Pumps	6.9	270	0.0	Gasoline	10	0.74
Intake 5 - Central & Eastern - 16	Air Compressor 185 cfm	Air Compressor	180	9	20.0	Diesel Tier 4	49	0.48
Intake 5 - Central & Eastern - 16	Boom Truck, 12.5 Tn Boom	Crane	180	9	20.0	Diesel or Hybrid	100	0.29
Intake 5 - Central & Eastern - 16	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	180	9	20.0	Diesel	75	0.31
Intake 5 - Central & Eastern - 17	400A Diesel Welder, Trailer Mounted	Welders	6417	342	18.8	Diesel	22	0.45
Intake 5 - Central & Eastern - 17	Air Compressor 185 cfm	Air Compressor	4633	342	13.5	Diesel Tier 4	49	0.48
Intake 5 - Central & Eastern - 17	Air Compressor 375 cfm	Air Compressor	278.8	342	0.8	Diesel Tier 4	122	0.48
Intake 5 - Central & Eastern - 17	Boom Truck, 12.5 Tn Boom	Crane	276.9	342	0.8	Diesel or Hybrid	100	0.29
Intake 5 - Central & Eastern - 17	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	10	342	0.0	Diesel or Hybrid	130	0.36
Intake 5 - Central & Eastern - 17	CAT 966 Gil Wheel Loader	Rubber Tired Loaders	78.6	342	0.2	Diesel	286	0.36
Intake 5 - Central & Eastern - 17	CAT CS-74, Roller, 17 tn, 156 HP	Rollers	10	342	0.0	Diesel	156	0.38
Intake 5 - Central & Eastern - 17	CAT D3 LGP, Dozer	Crawler Tractor	10	342	0.0	Diesel or Hybrid	76	0.43
Intake 5 - Central & Eastern - 17	Concrete Vibrator, 2"	Other Construction Eq	4.6	342	0.0	Gasoline	3	0.42
Intake 5 - Central & Eastern - 17	Gradall, 1.50 Cy, 282 Hp	Excavator	78.6	342	0.2	Diesel	282	0.38
Intake 5 - Central & Eastern - 17	Grove RT Crane 30T	Crane	10	342	0.0	Diesel	160	0.29
Intake 5 - Central & Eastern - 17	Grove RT Crane 55T, 247 hp	Crane	2800.6	342	8.2	Diesel	247	0.29
Intake 5 - Central & Eastern - 17	Light Plant, 4 lite, 1000w, Tower/Mast	Generator	836.3	342	2.4	Diesel	12	0.74
Intake 5 - Central & Eastern - 17	Manitowoc 555 150T, 250' Boom	Crane	3383.9	342	9.9	Diesel	760	0.29
Intake 5 - Central & Eastern - 17	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	1657.3	342	4.8	Diesel	75	0.31
Intake 5 - Central & Eastern - 17	Portable, 20 Kw, Diesel, 36HP	Welders	278.8	342	0.8	Diesel Tier 4	36	0.45
Intake 5 - Central & Eastern - 17	Vibro Driver/Extractor V20B	Other Construction Eq	278.8	342	0.8	Diesel	325	0.42
Intake 5 - Central & Eastern - 17	Water Pump, 4" Diesel	Pumps	2.3	342	0.0	Diesel	10	0.74
Intake 5 - Central & Eastern - 18	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	120.4	39	3	Diesel or Hybrid	224	0.42
Intake 5 - Central & Eastern - 18	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	120.4	39	3	Diesel or Hybrid	137	0.38
Intake 5 - Central & Eastern - 18	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	120.4	39	3	Diesel or Hybrid	133	0.38
Intake 5 - Central & Eastern - 18	Boom Truck, 12.5 Tn Boom	Crane	14.3	39	0.4	Diesel or Hybrid	100	0.29
Intake 5 - Central & Eastern - 18	CAT 14 M	Grader	54.7	39	1.4	Diesel	274	0.41
Intake 5 - Central & Eastern - 18	CAT 962 H Wheel Loader	Rubber Tired Loader	54.7	39	1.4	Diesel	230	0.36
Intake 5 - Central & Eastern - 18	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	54.7	39	1.4	Diesel	158	0.38
Intake 5 - Central & Eastern - 18	CAT LOADER/HOE 416 E	Rubber Tired Loaders	134.7	39	3.5	Diesel	78	0.36
Intake 5 - Central & Eastern - 19	400A Diesel Welder, Trailer Mounted	Welders	22.7	253	0.1	Diesel	22	0.45
Intake 5 - Central & Eastern - 19	Air Compressor 185 cfm	Air Compressor	653.4	253	2.6	Diesel Tier 4	49	0.48
Intake 5 - Central & Eastern - 19	Boom Truck, 12.5 Tn Boom	Crane	653.4	253	2.6	Diesel or Hybrid	100	0.29
Intake 5 - Central & Eastern - 19	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	733.3	253	2.9	Diesel	110	0.36
Intake 5 - Central & Eastern - 19	CAT 12 M	Grader	5.5	253	0.0	Diesel	173	0.41
Intake 5 - Central & Eastern - 19	CAT 14 M	Grader	3630.9	253	14.4	Diesel	274	0.41
Intake 5 - Central & Eastern - 19	Cat 613 C Self Loading Scraper	Scraper	2273.1	253	9.0	Diesel	187	0.48
Intake 5 - Central & Eastern - 19	CAT 825, Roller	Roller	1220.6	253	4.8	Diesel	315	0.38
Intake 5 - Central & Eastern - 19	CAT 950 H Wheel Loader	Rubber Tired Loaders	765	253	3.0	Diesel or Hybrid	130	0.36
Intake 5 - Central & Eastern - 19	CAT 973 Track Loader, 4.2 cy, 263hp	Skid Loader	20	253	0.1	Diesel or Hybrid	210	0.37
Intake 5 - Central & Eastern - 19	CAT CS-74, Roller, 17 tn, 156 HP	Rollers	948.8	253	3.8	Diesel	156	0.38
Intake 5 - Central & Eastern - 19	CAT D3 LGP, Dozer	Crawler Tractor	31.7	253	0.1	Diesel or Hybrid	76	0.43
Intake 5 - Central & Eastern - 19	CAT D6LGPDozer w winch	Crawler Tractor	3482.7	253	13.8	Diesel or Hybrid	179	0.43
Intake 5 - Central & Eastern - 19	CAT LOADER/HOE 416 E	Rubber Tired Loaders	13	253	0.1	Diesel	78	0.36
Intake 5 - Central & Eastern - 19	Compactor, Plate, 22"x w x 35"	Plate Compactors	366.7	253	1.4	Diesel	8.5	0.43
Intake 5 - Central & Eastern - 19	Concrete Vibrator, 2"	Other Construction Eq	45.3	253	0.2	Gasoline	3	0.42
Intake 5 - Central & Eastern - 19	Disk, Towed	Off Highway Tractor	2190.3	253	8.7	Diesel	140	0.44
Intake 5 - Central & Eastern - 19	Grove RT Crane 30T	Crane	928.4	253	3.7	Diesel	160	0.29
Intake 5 - Central & Eastern - 19	Grove RT Crane 55T, 247 hp	Crane	65.3	253	0.3	Diesel	247	0.29
Intake 5 - Central & Eastern - 19	Grove RT Crane 80T, 275hp	Crane	100	253	0.4	Diesel	275	0.29
Intake 5 - Central & Eastern - 19	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	230.7	253	0.9	Diesel	345	0.38
Intake 5 - Central & Eastern - 19	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	2684.5	253	10.6	Diesel	384	0.38
Intake 5 - Central & Eastern - 19	Manitowoc 555 150T, 250' Boom	Crane	20	253	0.1	Diesel	760	0.29
Intake 5 - Central & Eastern - 19	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	513.4	253	2.0	Diesel	75	0.31
Intake 5 - Central & Eastern - 19	Pile Hammer/Vulcan, Single 50k Ft-LB w Comp	Other Construction Eq	20	253	0.1	Diesel	210	0.42
Intake 5 - Central & Eastern - 19	Portable, 20 Kw, Diesel, 36HP	Welders	22.7	253	0.1	Diesel Tier 4	36	0.45
Intake 5 - Central & Eastern - 19	Water Pump, 4" Diesel	Pumps	679.2	253	2.7	Diesel	10	0.74
Intake 5 - Central & Eastern - 19	Water Pump, 6" Diesel	Pumps	544.1	253	2.2	Diesel	13	0.74
Intake 5 - Central & Eastern - 19	Water Pump,3" Gas, Diaphragm	Pumps	22.7	253	0.1	Gasoline	10	0.74
Intake 5 - Central & Eastern - 20	400A Diesel Welder, Trailer Mounted	Welders	147	91	1.6	Diesel	22	0.45
Intake 5 - Central & Eastern - 20	Air Compressor 375 cfm	Air Compressor	147	91	1.6	Diesel Tier 4	122	0.48
Intake 5 - Central & Eastern - 20	Grove RT Crane 55T, 247 hp	Crane	73.5	91	0.8	Diesel	247	0.29
Intake 5 - Central & Eastern - 20	Manitowoc 555 150T, 250' Boom	Crane	245	91	2.7	Diesel	760	0.29
Intake 5 - Central & Eastern - 20	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	147	91	1.6	Diesel	75	0.31
Intake 5 - Central & Eastern - 20	Portable, 20 Kw, Diesel, 36HP	Welders	245	91	2.7	Diesel Tier 4	36	0.45
Intake 5 - Central & Eastern - 20	Vibro Driver/Extractor V20B	Other Construction Eq	147	91	1.6	Diesel	325	0.42
Intake 5 - Central & Eastern - 21	400A Diesel Welder, Trailer Mounted	Welders	180	51	3.5	Diesel	22	0.45
Intake 5 - Central & Eastern - 21	Air Compressor 375 cfm	Air Compressor	180	51	3.5	Diesel Tier 4	122	0.48
Intake 5 - Central & Eastern - 21	Grove RT Crane 55T, 247 hp	Crane	180	51	3.5	Diesel	247	0.29
Intake 5 - Central & Eastern - 21	Manitowoc 555 150T, 250' Boom	Crane	180	51	3.5	Diesel	760	0.29
Intake 5 - Central & Eastern - 21	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	180	51	3.5	Diesel	75	0.31
Intake 5 - Central & Eastern - 21	Portable, 20 Kw, Diesel, 36HP	Welders	180	51	3.5	Diesel Tier 4	36	0.45
Intake 5 - Central & Eastern - 21	Vibro Driver/Extractor V20B	Other Construction Eq	180	51	3.5	Diesel	325	0.42
Intake 5 - Central & Eastern - 22	400A Diesel Welder, Trailer Mounted	Welders	90	223	0.4	Diesel	22	0.45
Intake 5 - Central & Eastern - 22	Air Compressor 185 cfm	Air Compressor	95	223	0.4	Diesel Tier 4	49	0.48
Intake 5 - Central & Eastern - 22	Air Compressor 375 cfm	Air Compressor	90	223	2.1	Diesel Tier 4	122	0.48
Intake 5 - Central & Eastern - 22	Air Compressor 900 cfm	Air Compressor	458.2	223	2.1	Diesel Tier 4	300	0.48
Intake 5 - Central & Eastern - 22	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	84	223	0	Diesel or Hybrid	224	0.42
Intake 5 - Central & Eastern - 22	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	84	223	0	Diesel or Hybrid	137	0.38
Intake 5 - Central & Eastern - 22	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	84	223	0	Diesel or Hybrid	133	0.38
Intake 5 - Central & Eastern - 22	Bobcat S630 Skid Steer Loader	Skid Loader	1600	223	7.2	Diesel	74	0.37
Intake 5 - Central & Eastern - 22	Boom Truck, 12.5 Tn Boom	Crane	95	223	0.4	Diesel or Hybrid	100	0.29
Intake 5 - Central & Eastern - 22	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	1277.3	223	5.7	Diesel	110	0.36
Intake 5 - Central & Eastern - 22	CAT 14 M	Grader	116.7	223	0.5	Diesel	274	0.41
Intake 5 - Central & Eastern - 22	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	1251.2	223	5.6	Diesel or Hybrid	130	0.36
Intake 5 - Central & Eastern - 22	CAT CS-74, Roller, 17 tn, 156 HP	Rollers	521.9	223	2.3	Diesel	156	0.38
Intake 5 - Central & Eastern - 22	CAT LOADER/HOE 416 E	Rubber Tired Loaders	1267.8	223	5.7	Diesel	78	0.36
Intake 5 - Central & Eastern - 22	Compactor, Plate, 22"x w x 35"	Plate Compactors	423	223	1.9	Diesel	8.5	0.43
Intake 5 - Central & Eastern - 22	Compactor, Trench Roller, Vib 32"w	Roller	431.3	223	1.9	Diesel	20	0.38
Intake 5 - Central & Eastern - 22	Conc/RCC Paver, 8 -12 Ft. Wide, 230 HP	Pavers	405.2	223	1.8	Diesel	230	0.42
Intake 5 - Central & Eastern - 22	Grove RT Crane 15T, 100hp	Crane	95	223	0.4	Diesel	100	0.29

Intake 5 - Central & Eastern - 22	Grove RT Crane 55T, 247 hp	Crane	90	223	0.4	Diesel	247	0.29
Intake 5 - Central & Eastern - 22	Manitowoc 555 150T, 250' Boom	Crane	90	223	0.4	Diesel	760	0.29
Intake 5 - Central & Eastern - 22	Pile Hammer D62-22, Single 165k Ft-LB, Diesel,	Other Construction Eq	90	223	0.4	Diesel	300	0.42
Intake 5 - Central & Eastern - 22	Portable, 20 Kw, Diesel, 36HP	Welders	90	223	0.4	Diesel Tier 4	36	0.45
Intake 5 - Central & Eastern - 22	Pug Mill, 400 cy/hr, w200 kw Gen	Generators	405.2	223	1.8	Diesel Tier 4	300	0.74
Intake 5 - Central & Eastern - 22	Shotcrete Pump	Pumps	458.2	223	2.1	Diesel	130	0.74
Intake 5 - Central & Eastern - 22	Vibro Driver/Extractor V20B	Other Construction Eq	90	223	0.4	Diesel	325	0.42
Intake 5 - Central & Eastern - 22	Water Pump, 4" Diesel	Pumps	23.3	223	0.1	Diesel	10	0.74
Intake 5 - Central & Eastern - 23	Bobcat S630 Skid Steer Loader	Skid Loader	302.4	205	1.5	Diesel	74	0.37
Intake 5 - Central & Eastern - 23	Boom Truck, 12.5 Tn Boom	Crane	302.4	205	1.5	Diesel or Hybrid	100	0.29
Intake 5 - Central & Eastern - 23	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	853.2	205	4.2	Diesel	75	0.31
Intake 5 - Central & Eastern - 23	Water Pump, 4" Diesel	Pumps	302.4	205	1.5	Diesel	10	0.74
Intake 5 - Central & Eastern - 24	CAT 12 M	Grader	70	67	1.0	Diesel	173	0.41
Intake 5 - Central & Eastern - 24	CAT 631G Scraper, Conventional	Scraper	400	67	6.0	Diesel	515	0.48
Intake 5 - Central & Eastern - 24	CAT 966 Gil Wheel Loader	Rubber Tired Loaders	20	67	0.3	Diesel	286	0.36
Intake 5 - Central & Eastern - 24	CAT D8Rii, Dozer w winch	Crawler Tractor	400	67	6.0	Diesel	310	0.43
Intake 5 - Central & Eastern - 24	CAT D9R, Dozer w ripper	Crawler Tractor	480	67	7.2	Diesel	410	0.43
Intake 5 - Central & Eastern - 24	Disk, Towed	Off Highway Tractor	60	67	0.9	Diesel	140	0.44
Intake 5 - Central & Eastern - 24	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	170	67	2.5	Diesel	80	0.44
Intake 5 - Central & Eastern - 25	400A Diesel Welder, Trailer Mounted	Welders	260	51	5.1	Diesel	22	0.45
Intake 5 - Central & Eastern - 25	Grove RT Crane 80T, 275hp	Crane	33.8	51	0.7	Diesel	275	0.29
Intake 5 - Central & Eastern - 25	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	260	51	5.1	Diesel	75	0.31

**Offroad Equipment (Electric) Inventory for Intake 5_3000 cfs_Central & Eastern
Options 1B, 2B, 5B, 6B, 9B, 10B**

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
Intake 5 - Central & Eastern - 2	400A, Electric Welder	2646.11	240	15	165.382
Intake 5 - Central & Eastern - 2	Water Pump, 4" Electrical, Submersible	14.9	240	1	0.062
Intake 5 - Central & Eastern - 3	400A, Electric Welder	200	253	15	11.858
Intake 5 - Central & Eastern - 3	Water Pump, 4" Electrical, Submersible	13193.2	253	1	52.147
Intake 5 - Central & Eastern - 5	Water Pump, 4" Electrical, Submersible	44069.1	920	1	47.901
Intake 5 - Central & Eastern - 5	Water Pump, 6" Electrical, Submersible	344.8	920	1	0.375
Intake 5 - Central & Eastern - 6	Water Pump, 4" Electrical, Submersible	7.6	33	1	0.230
Intake 5 - Central & Eastern - 11	Axial Fan 114,000 CFM	60	84	50	36
Intake 5 - Central & Eastern - 12	400A, Electric Welder	603	360	15	25.125
Intake 5 - Central & Eastern - 12	Water Pump, 4" Electrical, Submersible	5969.3	360	1	16.581
Intake 5 - Central & Eastern - 14	Water Pump, 4" Electrical, Submersible	1957.6	597	1	3.279
Intake 5 - Central & Eastern - 15	400A, Electric Welder	200	270	15	11.111
Intake 5 - Central & Eastern - 16	400A, Electric Welder	180	9	15	300.000
Intake 5 - Central & Eastern - 17	400A, Electric Welder	4095.5	342	15	179.627
Intake 5 - Central & Eastern - 17	Water Pump, 4" Electrical, Submersible	99.5	342	1	0.291
Intake 5 - Central & Eastern - 18	Water Pump, 4" Electrical, Submersible	10.9	39	1	0.279
Intake 5 - Central & Eastern - 19	400A, Electric Welder	653,4	253	15	#VALUE!
Intake 5 - Central & Eastern - 25	400A, Electric Welder	340	51	240	1,600.000

Electricity for TBM Operations included in the Summary Workbook

Vehicle Inventory for Intake 5 3000 cfs Central & Eastern
Options 1B, 2B, 5B,
6B, 9B, 10B

Code	Vehicle	Primary Trip Purpose/Location (within construction boundary ex.	# day	Vehicle Hours	Hours/Trip	# of Vehicles Trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency mpg/gal
Vehicle Use on Paved Roads ---and Not on Construction Site												
Intake 5 - Central & Eastern - 1	Truck, Tractor, 75000K, 6 x 4	Materials from Sacramento	64	240.0	0.6	379	5.9	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 1	Truck Flatbed 4 T Highway	Crane from Sacramento	1	0.6	0.6	1	1.0	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 2	Pickup 1/2T 2 WD	Materials from Sacramento	240	131308.9	0.6	207330	863.9	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline	
Intake 5 - Central & Eastern - 2	Pickup, 3/4T, 4wd	Materials from Sacramento	240	85394.7	0.6	134834	561.8	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline	
Intake 5 - Central & Eastern - 2	Truck Flatbed 4 T Highway	Materials from Sacramento	240	26787.6	0.6	42296	176.2	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 2	Truck' End Dump' 10-13cy' Hwy	Materials from Sacramento	240	2973.9	0.6	4696	19.6	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 2	Truck & Bottom Dump' 21cy' 30T	Materials from Sacramento	240	223	0.6	352	474	Intake 5 to/from Sacramento	19	38	Diesel Tier 4	
Intake 5 - Central & Eastern - 2	Concrete Transit Mix Truck' 12cy	Concrete from Lambert CBP	240	7.1	0.1	53	0	Intake 5 to/from Lambert CBP	4	8	Diesel	
Intake 5 - Central & Eastern - 2	Truck' End Dump' 10-13cy' Hwy	Cement, Aggregate, and Sand from Sacramento	240	20.5	0.5	41	0.2	Lambert CBP to/from Sacramento	15	30	Diesel	
Intake 5 - Central & Eastern - 2	Truck' End Dump' 10-13cy' Hwy	Base Rock and Gravel	240	1319.9	0.6	2084	8.7	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 2	Truck, Flatbed, 10T, Hwy	Rebar from Sacramento	240	1.9	0.6	3	0.0	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 2	Truck Flatbed 4 T Highway	Three Cranes, three Rollers, four Loaders, two Graders, Excavator, two Scrapers, and four Tractors from Sacramento	1	12.0	0.6	19	19.0	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 2	Truck Flatbed 4 T Highway	Forklift from and to Sacramento	2	1.3	0.6	2	1.0	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 2	Truck, Water, 4 Ngpl, Hwy	led Water from Sacramento Regional	240	3241.8	0.4	7481	31.2	Intake 3 to/from Sacramento Regional WWTP	13	26	Diesel	
Intake 5 - Central & Eastern - 3	Mechanics Truck	Materials from Sacramento	253	13193.2	0.6	20831	82	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 3	Pickup 1/2T 2 WD	Materials from Sacramento	253	15170.0	0.6	23953	94.7	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline	
Intake 5 - Central & Eastern - 3	Pickup, 3/4T, 4wd	Materials from Sacramento	253	2955.0	0.6	4666	18.4	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline	
Intake 5 - Central & Eastern - 3	Truck' End Dump' 10-13cy' Hwy	Materials from Sacramento	253	513.3	0.6	810	3.2	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 3	Truck Flatbed 4 T Highway	Materials from Sacramento	253	13193.2	0.6	20831	82.3	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 3	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	253	120.0	0.6	189	0.7	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 3	Truck, Tractor, 75000K, 6 x 4	Materials from Sacramento	253	520.0	0.6	821	3.2	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 3	Truck' End Dump' 16-20cy' Hwy	Base Rock and Gravel from Sacramento	253	616.2	0.6	973	4	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 3	Concrete Transit Mix Truck' 12cy	Concrete for Ground Improvement from Lambert CBP	253	590.1	0.1	4426	17	Intake 5 to/from Lambert CBP	4	8	Diesel	
Intake 5 - Central & Eastern - 3	Truck' End Dump' 10-13cy' Hwy	Bentonite from Sacramento	253	213.4	0.6	337	1.3	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 3	Truck Flatbed 4 T Highway	Crane and Excavator from Sacramento	1	1.3	0.6	2	2.0	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 3	Truck Flatbed 4 T Highway	Loader and Excavator from and to Sacramento	2	2.5	0.6	4	2.0	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 3	Truck, Water, 4 Ngpl, Hwy	led Water from Sacramento Regional	253	9969.7	0.4	23007	90.9	Intake 3 to/from Sacramento Regional WWTP	13	26	Diesel	
Intake 5 - Central & Eastern - 4	Truck Flatbed 4 T Highway	Materials from Sacramento	1418	7871.0	0.6	12428	8.8	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 4	Truck Flatbed 4 T Highway	Tractor from Sacramento	1	0.6	0.6	1	1.0	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 5	Mechanics Truck	Materials from Sacramento	920	44169.1	0.6	69741	76	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 5	Pickup 1/2T 2 WD	Materials from Sacramento	920	46048.0	0.6	72707	79.0	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline	
Intake 5 - Central & Eastern - 5	Pickup, 3/4T, 4wd	Materials from Sacramento	920	28274.0	0.6	44643	48.5	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline	
Intake 5 - Central & Eastern - 5	Truck' End Dump' 10-13cy' Hwy	Materials from Sacramento	920	267.2	0.6	422	0.5	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 5	Truck Flatbed 4 T Highway	Materials from Sacramento	920	44119.1	0.6	69662	75.7	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 5	Truck & Bottom Dump' 21cy' 30T	Materials from Sacramento	920	408	0.6	644	474	Intake 5 to/from Sacramento	19	38	Diesel Tier 4	
Intake 5 - Central & Eastern - 5	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	920	69.0	0.6	109	0.1	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 5	Truck, Tractor, 75000K, 6 x 4	Materials from Sacramento	920	150.0	0.6	237	0.3	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 5	Truck' End Dump' 16-20cy' Hwy	Base Rock and Bentonite from Sacramento	920	806.4	0.7	1152	1	Intake 5 to/from Sacramento	21	42	Diesel	
Intake 5 - Central & Eastern - 5	Concrete Transit Mix Truck' 12cy	Concrete for Ground Improvement from Lambert CBP	920	1881.7	0.1	14113	15	Intake 5 to/from Lambert CBP	4	8	Diesel	
Intake 5 - Central & Eastern - 5	Truck Flatbed 4 T Highway	Two Loaders, Roller, and Crane from Sacramento	1	2.5	0.6	4	4.0	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 5	Truck Flatbed 4 T Highway	Excavator from and to Sacramento	2	1.3	0.6	2	1.0	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 6	Pickup 1/2T 2 WD	Materials from Sacramento	33	91.3	0.6	144	4.4	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline	
Intake 5 - Central & Eastern - 6	Pickup, 3/4T, 4wd	Materials from Sacramento	33	38.1	0.6	60	1.8	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline	
Intake 5 - Central & Eastern - 6	Truck & Bottom Dump' 21cy' 30T	Materials from Sacramento	33	114	0.6	180	474	Intake 5 to/from Sacramento	19	38	Diesel Tier 4	
Intake 5 - Central & Eastern - 6	Truck' End Dump' 16-20cy' Hwy	Base Rock from Sacramento	33	153.3	0.6	242	7	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 6	Truck & Bottom Dump' 21cy' 30T	Asphalt, Hot Mix Delivered from Sacramento	33	160	0.7	228	474	Intake 5 to/from Sacramento	21	42	Diesel Tier 4	
Intake 5 - Central & Eastern - 6	Truck Flatbed 4 T Highway	Three Rollers and Paver from and to Sacramento	2	5.1	0.6	8	4.0	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 7	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Sacramento	711	222.9	0.6	352	1.7	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 8	Truck' End Dump' 16-20cy' Hwy	Materials from Sacramento	164	1264.3	0.6	1996	12	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 8	Truck Flatbed 4 T Highway	Crane from Sacramento	1	0.6	0.6	1	1.0	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 8	Truck Flatbed 4 T Highway	Three Cranes, Grader, two Excavators, and Tractor from and to Sacramento	2	4.4	0.6	7	3.5	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 9	Truck Flatbed 4 T Highway	Crane from and to Sacramento	2	1.3	0.6	2	1.0	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 10	Truck Flatbed 4 T Highway	Crane from and to Sacramento	2	1.3	0.6	2	1.0	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 11	Truck Flatbed 4 T Highway	Crane from and to Sacramento	2	1.3	0.6	2	1.0	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 11	Truck Flatbed 4 T Highway	Crane from Sacramento	1	0.6	0.6	1	1.0	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 11	Truck Flatbed 4 T Highway	Crane to Sacramento	1	0.6	0.6	1	1.0	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 12	Pickup 1/2T 2 WD	Materials from Sacramento	360	8115.8	0.6	12814	35.6	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline	
Intake 5 - Central & Eastern - 12	Pickup, 3/4T, 4wd	Materials from Sacramento	360	8847.5	0.6	13970	38.8	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline	
Intake 5 - Central & Eastern - 12	Truck' End Dump' 10-13cy' Hwy	Materials from Sacramento	360	1078.4	0.6	1703	4.7	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 12	Truck Flatbed 4 T Highway	Materials from Sacramento	360	4095.5	0.6	6471	18.0	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 12	Truck, Tractor, 75000K, 6 x 4	Materials from Sacramento	360	1330.0	0.6	2100	5.8	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 12	Concrete Transit Mix Truck' 12cy	Concrete from Lambert CBP	360	1096.5	0.1	8224	22.8	Intake 5 to/from Lambert CBP	4	8	Diesel	
Intake 5 - Central & Eastern - 12	Truck' End Dump' 10-13cy' Hwy	Cement, Aggregate, and Sand from Sacramento	360	3191.0	0.5	6382	17.7	Lambert CBP to/from Sacramento	15	30	Diesel	
Intake 5 - Central & Eastern - 12	Truck' End Dump' 10-13cy' Hwy	Bentonite from Sacramento	360	11.4	0.6	18	0.1	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 12	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Sacramento	360	200.1	0.6	316	0.9	Intake 5 to/from Sacramento	19	38	Diesel	

Intake 5 - Central & Eastern - 12	Truck Flatbed 4 T Highway	Tractor and Loader from Sacramento	1	1.3	0.6	2	2.0	Intake 5 to/from Sacramento	19	38	Diesel
Intake 5 - Central & Eastern - 13	Pickup 1/2T2 WD	Materials from Sacramento	249	118.8	0.6	188	0.8	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline
	Truck, Tractor, 75000#, 6 x 4	Materials from Sacramento	249	118.8	0.6	188	0.8	Intake 5 to/from Sacramento	19	38	Diesel
Intake 5 - Central & Eastern - 13	Concrete Transit Mix Truck 12cy	Concrete from Lambert CBP	249	489.7	0.1	3673	14.8	Intake to/from Lambert CBP	4	8	Diesel
Intake 5 - Central & Eastern - 13	Truck End Dump 10-13cy Hwy	Cement, Aggregate, and Sand from Sacramento	249	1425.0	0.5	2850	11.4	Lambert CBP to/from Sacramento	15	30	Diesel
Intake 5 - Central & Eastern - 13	Truck Flatbed, 10T, Hwy	Rebar from Sacramento	249	123.5	0.6	195	0.8	Intake 5 to/from Sacramento	19	38	Diesel
Intake 5 - Central & Eastern - 13	Truck Flatbed 4 T Highway	Loader from Sacramento	1	0.6	0.6	1	1.0	Intake 5 to/from Sacramento	19	38	Diesel
Intake 5 - Central & Eastern - 14	Pickup 1/2T2 WD	Materials from Sacramento	597	960.9	0.6	1517	2.5	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline
	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	597	197.3	0.6	312	0.5	Intake 5 to/from Sacramento	19	38	Diesel
	Truck, Tractor, 75000#, 6 x 4	Materials from Sacramento	597	225.0	0.6	355	0.6	Intake 5 to/from Sacramento	19	38	Diesel
Intake 5 - Central & Eastern - 14	Concrete Transit Mix Truck 12cy	Concrete from Lambert CBP	597	112.8	0.1	846	1.4	Intake to/from Lambert CBP	4	8	Diesel
Intake 5 - Central & Eastern - 14	Truck End Dump 10-13cy Hwy	Cement, Aggregate, and Sand from Sacramento	597	328.5	0.5	657	1.1	Lambert CBP to/from Sacramento	15	30	Diesel
Intake 5 - Central & Eastern - 14	Truck Flatbed, 10T, Hwy	Steel and Rebar from Sacramento	597	114.0	0.6	180	0.3	Intake 5 to/from Sacramento	19	38	Diesel
Intake 5 - Central & Eastern - 14	Truck Flatbed 4 T Highway	Loader from and to Sacramento	2	1.3	0.6	2	1.0	Intake 5 to/from Sacramento	19	38	Diesel
Intake 5 - Central & Eastern - 14	Truck Flatbed 4 T Highway	Loader and Crane to Sacramento	1	1.3	0.6	2	2.0	Intake 5 to/from Sacramento	19	38	Diesel
Intake 5 - Central & Eastern - 15	Pickup 1/2T2 WD	Materials from Sacramento	270	1152.3	0.6	1819	6.7	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline
	Pickup, 3/4T, 4wd	Materials from Sacramento	270	50.0	0.6	79	0.3	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline
Intake 5 - Central & Eastern - 15	Truck Flatbed 4 T Highway	Materials from Sacramento	270	305.2	0.6	482	1.8	Intake 5 to/from Sacramento	19	38	Diesel
Intake 5 - Central & Eastern - 15	Truck Flatbed, 10T, Hwy	Materials from Sacramento	270	201.7	0.6	318	1.2	Intake 5 to/from Sacramento	19	38	Diesel
Intake 5 - Central & Eastern - 15	Truck End Dump 10-13cy Hwy	Materials from Sacramento	270	200.0	0.6	316	1.2	Intake 5 to/from Sacramento	19	38	Diesel
Intake 5 - Central & Eastern - 15	Concrete Transit Mix Truck 12cy	Concrete from Lambert CBP	270	2.1	0.1	16	0.1	Intake to/from Lambert CBP	4	8	Diesel
Intake 5 - Central & Eastern - 15	Truck End Dump 10-13cy Hwy	Cement, Aggregate, and Sand from Sacramento	270	6.5	0.5	13	0.0	Lambert CBP to/from Sacramento	15	30	Diesel
Intake 5 - Central & Eastern - 15	Truck End Dump 16-20cy Hwy	Gravel from Sacramento	270	7.0	0.6	11	0	Intake 5 to/from Sacramento	19	38	Diesel
Intake 5 - Central & Eastern - 15	Truck, Tractor, 75000#, 6 x 4	Materials from Sacramento	270	571.5	0.6	902	3.3	Intake 5 to/from Sacramento	19	38	Diesel
Intake 5 - Central & Eastern - 15	Truck, Flatbed, 10T, Hwy	Rebar from Sacramento	270	1.3	0.6	2	0.0	Intake 5 to/from Sacramento	19	38	Diesel
Intake 5 - Central & Eastern - 16	Pickup 1/2T2 WD	Materials from Sacramento	9	180.0	0.6	284	31.6	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline
	Truck, Tractor, 75000#, 6 x 4	Materials from Sacramento	9	400.0	0.6	632	70.2	Intake 5 to/from Sacramento	19	38	Diesel
Intake 5 - Central & Eastern - 17	Pickup 1/2T2 WD	Materials from Sacramento	342	1387.7	0.6	2191	6.4	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline
	Pickup, 3/4T, 4wd	Materials from Sacramento	342	10.0	0.6	16	0.0	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline
	Truck Flatbed 4 T Highway	Materials from Sacramento	342	2737.1	0.6	4322	12.6	Intake 5 to/from Sacramento	19	38	Diesel
	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	342	1701.6	0.6	2687	7.9	Intake 5 to/from Sacramento	19	38	Diesel
	Truck End Dump 16-20cy Hwy	Gravel from Sacramento	342	1.9	0.6	3	0	Intake 5 to/from Sacramento	19	38	Diesel
	Truck End Dump 10-13cy Hwy	Cement, Aggregate, and Sand from Sacramento Lambert CBP	342	2253.0	0.5	4506	13.2	Lambert CBP to/from Sacramento	15	30	Diesel
	Truck, Flatbed, 10T, Hwy	Rebar from Sacramento	342	0.6	0.6	1	0.0	Intake 5 to/from Sacramento	19	38	Diesel
	Truck Flatbed 4 T Highway	Excavator to Sacramento	1	0.6	0.6	1	1.0	Intake 5 to/from Sacramento	19	38	Diesel
Intake 5 - Central & Eastern - 18	Pickup 1/2T2 WD	Materials from Sacramento	39	120.4	0.6	190	4.9	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline
	Pickup, 3/4T, 4wd	Materials from Sacramento	39	54.7	0.6	86	2.2	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline
	Truck & Bottom Dump 21cy 30T	Materials from Sacramento	39	164	0.6	259	474	Intake 5 to/from Sacramento	19	38	Diesel Tier 4
	Truck End Dump 16-20cy Hwy	Base Rock from Sacramento	39	220.4	0.6	348	9	Intake 5 to/from Sacramento	19	38	Diesel
	Truck & Bottom Dump 21cy 30T	Asphalt, Hot Mix Delivered from Sacramento	39	211	0.7	301	474	Intake 5 to/from Sacramento	21	42	Diesel Tier 4
	Truck Flatbed 4 T Highway	Roller and loader to Sacramento	1	1.3	0.6	2	2.0	Intake 5 to/from Sacramento	19	38	Diesel
Intake 5 - Central & Eastern - 19	Pickup 1/2T2 WD	Materials from Sacramento	253	2036.3	0.6	3215	12.7	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline
	Pickup, 3/4T, 4wd	Materials from Sacramento	253	2589.2	0.6	4088	16.2	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline
	Truck Flatbed, 10T, Hwy	Materials from Sacramento	253	13.0	0.6	21	0.1	Intake 5 to/from Sacramento	19	38	Diesel
	Truck End Dump 10-13cy Hwy	Materials from Sacramento	253	183.3	0.6	289	1.1	Intake 5 to/from Sacramento	19	38	Diesel
	Truck & Bottom Dump 21cy 30T	Materials from Sacramento	253	137	0.6	216	474	Intake 5 to/from Sacramento	19	38	Diesel Tier 4
	Truck Flatbed 4 T Highway	Materials from Sacramento	253	90.6	0.6	143	0.6	Intake 5 to/from Sacramento	19	38	Diesel
	Truck, Tractor, 75000#, 6 x 4	Materials from Sacramento	253	395.0	0.6	624	2.5	Intake 5 to/from Sacramento	19	38	Diesel
	Concrete Transit Mix Truck 12cy	Concrete from Lambert CBP	253	2.9	0.1	22	0.1	Intake to/from Lambert CBP	4	8	Diesel
	Truck End Dump 16-20cy Hwy	Cement, Aggregate, and Sand from Sacramento Lambert CBP	253	15.4	0.7	22	0.1	Lambert CBP to/from Sacramento	21	42	Diesel
	Truck End Dump 16-20cy Hwy	Gravel from Sacramento	253	26.6	0.6	42	0	Intake 5 to/from Sacramento	19	38	Diesel
Intake 5 - Central & Eastern - 19	Truck, Flatbed, 10T, Hwy	Rebar from Sacramento	253	0.6	0.6	1	0.0	Intake 5 to/from Sacramento	19	38	Diesel
	Truck Flatbed 4 T Highway	Roller, Loader, two Tractors, two Excavators, Scraper, and two Cranes to Sacramento	1	5.7	0.6	9	9.0	Intake 5 to/from Sacramento	19	38	Diesel
	Pickup 1/2T2 WD	Materials from Sacramento	223	1274.0	0.6	2012	9.0	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline
	Pickup, 3/4T, 4wd	Materials from Sacramento	223	962.7	0.6	1520	6.8	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline
Intake 5 - Central & Eastern - 22	Truck Flatbed, 10T, Hwy	Materials from Sacramento	223	2289.9	0.6	3616	16.2	Intake 5 to/from Sacramento	19	38	Diesel
	Truck End Dump 10-13cy Hwy	Materials from Sacramento	223	1823.3	0.6	2879	12.9	Intake 5 to/from Sacramento	19	38	Diesel
	Truck End Dump 10-13cy Hwy	Materials from Sacramento	223	137.7	0.6	217	1.0	Intake 5 to/from Sacramento	19	38	Diesel
	Truck End Dump 10-13cy Hwy	Cement, Aggregate, and Sand from Sacramento Lambert CBP	223	2229.3	0.6	3520	15.8	Lambert CBP to/from Sacramento	19	38	Diesel
	Concrete Transit Mix Truck 12cy	Concrete from Lambert CBP	223	604.9	0.1	4537	20	Intake to/from Lambert CBP	4	8	Diesel
	Truck End Dump 16-20cy Hwy	Base Rock and Gravel from Sacramento	223	818.9	0.6	1293	6	Intake 5 to/from Sacramento	19	38	Diesel
	Truck & Bottom Dump 21cy 30T	Asphalt, Hot Mix Delivered from Sacramento	223	605	0.7	864	474	Intake 5 to/from Sacramento	21	42	Diesel Tier 4
	Truck Flatbed 4 T Highway	Two Rollers, Three Compactors, Three Loaders, and Grader to Sacramento	1	5.7	0.6	9	9.0	Intake 5 to/from Sacramento	19	38	Diesel
	Truck Flatbed 4 T Highway	Two Pavers and two Rollers from and to Sacramento	2	5.1	0.6	8	4.0	Intake 5 to/from Sacramento	19	38	Diesel
	Pickup 1/2T2 WD	Materials from Sacramento	205	550.8	0.6	870	4.2	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline
Intake 5 - Central & Eastern - 23	Truck End Dump 10-13cy Hwy	Materials from Sacramento	205	302.4	0.6	477	2.3	Intake 5 to/from Sacramento	19	38	Diesel
	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	205	550.8	0.6	870	4.2	Intake 5 to/from Sacramento	19	38	Diesel
	Truck Flatbed 4 T Highway	Materials from Sacramento	205	302.4	0.6	477	2.3	Intake 5 to/from Sacramento	19	38	Diesel
	Concrete Transit Mix Truck 12cy	Concrete from Lambert CBP	205	0.8	0.1	6	0	Intake to/from Lambert CBP	4	8	Diesel
	Truck End Dump 10-13cy Hwy	Gravel from Sacramento	205	26.0	0.6	41	0.2	Intake 5 to/from Sacramento	19	38	Diesel
	Truck End Dump 10-13cy Hwy	Rip Rap from Ione	205	269.2	1.4	197	10	Intake 5 to/from Ione	41	82	Diesel
	Truck, Flatbed, 10T, Hwy	Rebar from Sacramento	205	0.6	0.6	1	0.0	Intake 5 to/from Sacramento	19	38	Diesel
	Truck End Dump 10-13cy Hwy	Cement, Aggregate, and Sand from Sacramento Lambert CBP	205	2948.8	0.6	4656	22.7	Lambert CBP to/from Sacramento	19	38	Diesel
	Truck Flatbed 4 T Highway	Crane and Loader to Sacramento	1	1.3	0.6	2	2.0	Intake 5 to/from Sacramento	19	38	Diesel
	Pickup 1/2T2 WD	Materials from Sacramento	205	550.8	0.6	870	4.2	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline

Intake 5 - Central & Eastern - 24	Truck Flatbed 4 T Highway	Loader, Grader, Scraper, and four Tractors to Sacramento	1	4.4	0.6	7	7.0	Intake 5 to/from Sacramento	19	38	Diesel
Intake 5 - Central & Eastern - 25	Pickup 1/2T2 WD	Materials from Sacramento	51	260.0	0.6	411	8.0	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline
Intake 5 - Central & Eastern - 25	Truck/ End Dump/ 10-13cy Hwy	Materials from Sacramento	51	57.8	0.6	91	1.8	Intake 5 to/from Sacramento	19	38	Diesel
Intake 5 - Central & Eastern - 25	Truck, Water, 4 kgal, Hwy	hd Water from Sacramento Regional	51	595.0	0.4	1373	26.9	Intake 3 to/from Sacramento Regional WWTP	13	26	Diesel

Vehicle Use on Unpaved/Dist Surface (no access roads at park and ride lots) — on the Construction Site								Miles On-Site		
Intake 5 - Central & Eastern - 1	Trailer, Flatbed, 40T	Off-Highway Truck	64	240.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1200	Diesel
Intake 5 - Central & Eastern - 2	CAT 770, Articulated End dump	Dumper	240	28.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	141	Diesel or Hybrid
Intake 5 - Central & Eastern - 2	Articulated Rear Dump 22 CV/CAT 735	Dumper	240	28.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	140	Diesel or Hybrid
Intake 5 - Central & Eastern - 2	Trailer, Flatbed, 40T	Off-Highway Truck	240	133.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	667	Diesel
Intake 5 - Central & Eastern - 3	Articulated Rear Dump 22 CV/CAT 730	Dumper	253	4571.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	22855	Diesel or Hybrid
Intake 5 - Central & Eastern - 3	Trailer, Flatbed, 40T	Off-Highway Truck	253	120.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	600	Diesel
Intake 5 - Central & Eastern - 3	Trailer, Lowboy, 120T	Off-Highway Truck	253	400.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2000	Diesel
Intake 5 - Central & Eastern - 5	Articulated Rear Dump 22 CV/CAT 730	Dumper	920	6884.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	34420	Diesel or Hybrid
Intake 5 - Central & Eastern - 5	Trailer, Lowboy, 120T	Off-Highway Truck	920	112.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	561	Diesel
Intake 5 - Central & Eastern - 5	Truck, 400hp & End Dump Tr, 28cy, 36T	Dumper	920	2421.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	12108	Diesel
Intake 5 - Central & Eastern - 5	Trailer, Flatbed, 40T	Off-Highway Truck	920	100.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	500	Diesel
Intake 5 - Central & Eastern - 8	Articulated Rear Dump 22 CV/CAT 730	Dumper	164	1155.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	5775	Diesel or Hybrid
Intake 5 - Central & Eastern - 8	Articulated Rear Dump 22 CV/CAT 730	Dumper	164	211.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1055	Diesel or Hybrid
Intake 5 - Central & Eastern - 12	Articulated Rear Dump 22 CV/CAT 730	Dumper	360	5574.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	27872	Diesel or Hybrid
Intake 5 - Central & Eastern - 12	Trailer, Lowboy, 50T	Off-Highway Truck	360	1330.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	6650	Diesel
Intake 5 - Central & Eastern - 13	Trailer, Lowboy, 50T	Off-Highway Truck	249	118.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	594	Diesel
Intake 5 - Central & Eastern - 14	Articulated Rear Dump 22 CV/CAT 730	Dumper to move soil on-site	597	2489.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	12449	Diesel or Hybrid
Intake 5 - Central & Eastern - 14	Trailer, Lowboy, 50T	Off-Highway Truck	597	225.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1125	Diesel
Intake 5 - Central & Eastern - 15	Articulated Rear Dump 22 CV/CAT 730	Dumper	270	100.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	500	Diesel or Hybrid
Intake 5 - Central & Eastern - 15	Trailer, Lowboy, 120T	Off-Highway Truck	270	573.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2858	Diesel
Intake 5 - Central & Eastern - 16	Trailer, Lowboy, 120T	Off-Highway Truck	9	400.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2000	Diesel
Intake 5 - Central & Eastern - 17	Articulated Rear Dump 22 CV/CAT 730	Dumper	342	20.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	100	Diesel or Hybrid
Intake 5 - Central & Eastern - 19	Articulated Rear Dump 22 CV/CAT 730	Dumper	253	10274.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	51371	Diesel or Hybrid
Intake 5 - Central & Eastern - 19	Trailer, Lowboy, 50T	Off-Highway Truck	253	20.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	100	Diesel
Intake 5 - Central & Eastern - 22	Trailer, Flatbed, 40T	Off-Highway Truck	223	423.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2115	Diesel
Intake 5 - Central & Eastern - 22	Trailer, Lowboy, 120T	Off-Highway Truck	223	90.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	450	Diesel
Intake 5 - Central & Eastern - 24	CAT 725 Tractor, 330hp	Dumper	67	255.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1275	Diesel

Employees Required to Intake 5_3000 cfs_Central & Eastern
Options 1B, 2B, 5B, 6B, 9B, 10B

Code	Employee Type	Hours	# Work Hours/Day	Trip Location (to/from)	Commute Miles/ One-way Trip/Day
Intake 5 - Central & Eastern - 1	Iron Worker-Rigger	240.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 1	Operator G3a Cranes 45 to 100 t	240.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 1	Teamster G4 Tractor, Lowbed/Trailer	240.0	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-1		720.0	30		
Intake 5 - Central & Eastern - 2	Carpenter Apprentice	2646.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Carpenter Foreman	2729.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Carpenter Journeyman	416.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Carpenter, Bridge and Highway	15764.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Cement Mason Foreman	83.3	10		
Intake 5 - Central & Eastern - 2	Cement Mason Journeyman	250.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Electrical Foreman	2048.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Electrician Journeyman	11447.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Iron Worker Foreman	86.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Iron Worker Journeyman	11300.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Rebar/Struct	6.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Iron Worker-Rigger	4550.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Laborer Foreman	552.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Laborer G1 Pipe layers	9.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Laborer G1 Power Tamper	83.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Laborer G1 Vibrator, Green Cutter	333.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Laborer G2 Concrete Laborer	6393.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Laborer G2 General	175.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Laborer G3 Flagman	14280.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Laborer G4 Clean-up	215.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	OPERATING ENGINEER FOREMAN	9.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Operator G2 Excavator 3.5 to 7.0 cy	164.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Operator G2 Finish Blade	443.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Operator G2a Cranes 45 to 100 t	6971.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Operator G3 BH-Loader>3/4cy	82.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Operator G3 Loader >4cy	190.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Operator G4 Dozer & Push Cat	142.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Operator G4 Grade Check	20.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Operator G4 Hvy Duty Mechanic	288.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Operator G4 Scraper	4759.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Operator G4a Boom truck<15 ton	142.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Operator G5 Compactor w-blade	41.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Operator G5 Concrete Pump	56.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Operator G7 Roller, Compactor	14.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Operator G8 Pump	3653.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Teamster G1 Hwy ED<6cy, Flatbed	458.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Teamster G2 Hwy ED 6-8cy, Water	2473.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Teamster G3 Boom Truck	321.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Teamster G3 ED 8-24cy, Water>7/				
TOTAL Intake 5 - Central & Eastern-2		93608.7	380		
Intake 5 - Central & Eastern - 3	Carpenter Apprentice	200.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Carpenter Foreman	200.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Carpenter Journeyman	400.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Electrical Foreman	170.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Electrical Lineman	480.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Electrician Journeyman	200.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Iron Worker Journeyman Rebar/S	400.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Laborer G2 General	50101.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Laborer G3 Flagman	815.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	OPERATING ENGINEER FOREMAN	14831.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Operator G2 Excavator 3.5 to 7.0	1142.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Operator G2 Finish Blade	1454.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Operator G2 Plant Operator	26386.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Operator G3 BH-Loader>3/4cy	13628.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Operator G3 Loader >4cy	16.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Operator G3a Cranes 45 t and uni	13313.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Operator G4 Dozer & Push Cat	3066.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Operator G4 Grade Check	14384.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Operator G4 Hvy Duty Mechanic	13193.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Operator G4 Scraper	2359.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Operator G4a Boom truck<15 ton	440.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Operator G5 Compactor w-blade	1287.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Operator G5 Drilling & Boring Mach	733.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Operator G7 Oiler	733.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Operator G8a Skidsteer <Bobcat 743	120.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Teamster G1 Hwy ED<6cy, Flatbed	13313.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Teamster G2 Hwy ED 6-8cy, Water<7	14575.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Teamster G3 Boom Truck	100.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Teamster G3 ED 8-24cy, Water>7mg;	5200.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Teamster G4 Tractor, Lowbed/Traile	520.0	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-3		193766.7	300		
Intake 5 - Central & Eastern - 4	Laborer G2 General	15742.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 4	Laborer Foreman	393.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 4	Operator G4 Loader <4.1cy	3935.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 4	Operator G6 Tractor	1967.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 4	Teamster G1 Hwy ED<6cy, Flatbed	7871.0	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-4	0	29909.8	50		
Intake 5 - Central & Eastern - 5	Iron Worker-Rigger	100.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Laborer Foreman	51.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Laborer G2 General	132875.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Laborer G3 Flagman	314.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	OPERATING ENGINEER FOREMAN	46293.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Operator G1a Cranes>100 t	112.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Operator G2 Excavator 3.5 to 7.0 cy	1755.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Operator G2 Finish Blade	2083.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Operator G2 Plant Operator	88148.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Operator G2a Cranes 45 to 100 t	62.2	10	Sacramento to/from Intake 5	19

Intake 5 - Central & Eastern - 5	Operator G3 BH-Loader>3/4cy	44153.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Operator G3 Loader >4cy	412.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Operator G3a Cranes 45 t and under	44119.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Operator G4 Dozer & Push Cat	5269.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Operator G4 Grade Check	46097.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Operator G4 Hvy Duty Mechanic	44219.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Operator G4 Scraper	3012.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Operator G5 Compactor w-blade	1747.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Operator G7 Oiler	112.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Operator G7 Roller, Compactor	242.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Operator G-8 Mech helper	150.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Operator G8 Pump	393.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Operator G8a Skidsteer <Bobcat 743	69.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Pile Driver Foreman	62.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Pile Driver Wharf and Dock	248.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Teamster G1 Hwy ED<6cy, Flatbed	44188.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Teamster G2 Hwy ED 6-8cy, Water<7	46395.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Teamster G3 ED 8-24cy, Water>7mg;	9713.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Teamster G4 Tractor, Lowbed/Trailei	150.0	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-5		562551.0	290.0		
Intake 5 - Central & Eastern - 6	Iron Worker-Rigger	27.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 6	Laborer G2 General	476.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 6	Laborer G3 Flagman	76.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 6	OPERATING ENGINEER FOREMAN	157.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 6	Operator G2 Finish Blade	38.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 6	Operator G3 BH-Loader>3/4cy	119.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 6	Operator G3 Loader >4cy	38.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 6	Operator G4 Grade Check	129.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 6	Operator G4a Boom truck<15 ton	27.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 6	Operator G5 Asphalt Roller	182.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 6	Operator G5 Compactor w-blade	38.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 6	Operator G5 Paver	91.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 6	Operator G8 Pump	7.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 6	Teamster G2 Hwy ED 6-8cy, Water<7	83.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 6	Teamster G3 Boom Truck	27.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 6	Teamster G3 ED 8-24cy, Water>7mg;	114.2	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-6		1636.4	160		
Intake 5 - Central & Eastern - 7	Dredge Deckhand	3532.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 7	Laborer G2 General	206.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 7	Operator G1a Cranes>100 t	2349.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 7	Operator G2a Cranes 45 to 100 t	2911.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 7	Operator G4a Boom truck<15 ton	1061.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 7	Pile Driver Foreman	2245.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 7	Pile Driver Journeyman	103.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 7	Pile Driver Wharf and Dock	5825.6	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-7		18235.5	80		
Intake 5 - Central & Eastern - 8	Bottomlander	111.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Carpenter	485.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Carpenter Foreman	121.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Compactor Operator	1264.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Crane Oiler	653.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Diver Contractor	340.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Dozer Operator	1292.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Excavator Operator	241.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	General Foreman	657.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	General Laborer	3067.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Grade Setter / Checker	1292.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Grader Operator	1355.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Hyd Crane Operator	458.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Iron Worker	3330.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Iron Worker Foreman	580.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Lead Miner	217.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Loader Operator	480.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Mechanic Welder	422.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Miner	1988.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Shaft Crane Operator	764.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Shifter	786.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Slurry Wall Consultant	211.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Toplander	486.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Truck Driver	1550.6	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-8		22154.4	240		
Intake 5 - Central & Eastern - 9	Diver Contractor	18.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 9	Hyd Crane Operator	76.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 9	Lead Miner	19.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 9	Miner	153.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 9	Shifter	19.1	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-9		286.4	50		
Intake 5 - Central & Eastern - 10	Shifter	100.0	24	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 10	Lead Miner	100.0	24	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 10	Miner	800.0	24	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 10	Hyd Crane Operator	100.0	24	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-10		1100.0	96		
Intake 5 - Central & Eastern - 11	Bottomlander	193.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 11	Concrete Pump Operator	96.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 11	Crane Oiler	384.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 11	Electrician	260.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 11	Hyd Crane Operator	60.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 11	Iron Worker	948.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 11	Iron Worker Foreman	118.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 11	Lead Miner	570.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 11	Mechanic Welder	474.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 11	Miner	4515.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 11	Shaft Crane Operator	436.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 11	Shifter	597.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 11	Toplander	436.7	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-11		9091.5	130		
Intake 5 - Central & Eastern - 12	Carpenter Apprentice	603.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Carpenter Foreman	14826.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Carpenter Journeyman	75895.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Cement Mason Foreman	2572.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Cement Mason Journeyman	9947.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Dredge Deckhand	1365.0	10	Sacramento to/from Intake 5	19

Intake 5 - Central & Eastern - 12	Electrical Foreman	150.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Electrician Journeyman	603.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Iron Worker Foreman	7755.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Iron Worker Journeyman Rebar/Stru	58342.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Laborer Foreman	7459.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Laborer G1 Vibrator, Green Cutter	1953.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Laborer G2 Concrete Laborer	35291.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Laborer G2 General	47665.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Laborer G2 High Pressure Nozzleman	4156.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Laborer G4 Clean-up	6147.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	OPERATING ENGINEER FOREMAN	4761.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G1a Cranes>100 t	15662.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G2 Excavator 3.5 to 7.0 cy	53.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G2 Finish Blade	26.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G2 Plant Operator	6455.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G2a Cranes 45 to 100 t	9648.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G3 BH-Loader>3/4cy	410.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G3 Dozer w-slope board	2049.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G3 Loader >4cy	6398.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G3a Cranes 45 t and under	1024.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G4 Dozer & Push Cat	4455.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G4 Hvy Duty Mechanic	2902.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G4 Welder	603.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G4a Boom truck<15 ton	301.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G5 Compactor w-blade	53.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G5 Concrete Pump	3462.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G5 Drilling & Boring Mach	4098.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G6 Conc Saw	4098.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G7 Oiler	21628.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G-8 Mech helper	2412.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G8a Skidsteer <Bobcat 743	2049.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Pile Driver Wharf and Dock	3325.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Teamster G1 Hwy ED<6cy, Flatbed	4098.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Teamster G2 Hwy ED 6-8cy, Water<7	1307.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Teamster G3 Boom Truck	301.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Teamster G3 ED 8-24cy, Water>7mg;	13534.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Teamster G4 Tractor, Lowbed/Trailei	1330.0	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-12		391188.4	430		
Intake 5 - Central & Eastern - 13	Carpenter Foreman	5501.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Carpenter Journeyman	16115.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Cement Mason Foreman	2972.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Cement Mason Journeyman	17280.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Iron Worker Foreman	6094.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Iron Worker Journeyman Rebar/Stru	42327.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Laborer Foreman	1676.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Laborer G1 Vibrator, Green Cutter	2865.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Laborer G2 Concrete Laborer	20824.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Laborer G2 General	12275.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Laborer G2 High Pressure Nozzleman	343.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Operator G1a Cranes>100 t	6260.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Operator G2a Cranes 45 to 100 t	2200.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Operator G3 Loader >4cy	118.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Operator G4 Hvy Duty Mechanic	502.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Operator G5 Concrete Pump	1432.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Operator G7 Oiler	6332.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Pile Driver Journeyman	475.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Teamster G3 ED 8-24cy, Water>7mg;	4441.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Teamster G4 Tractor, Lowbed/Trailei	118.8	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-13		150160.7	200		
Intake 5 - Central & Eastern - 14	Bottomlander	2721.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Bullgang Foreman	1877.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Bullgang Laborer	12352.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Carpenter Foreman	2219.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Carpenter Journeyman	15984.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Cement Mason Foreman	1236.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Cement Mason Journeyman	5314.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Electrician	1680.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Flat Truck Driver	197.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Hyd Crane Operator	1238.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Iron Worker Foreman	2131.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Iron Worker Journeyman Rebar/Stru	10440.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Laborer Foreman	600.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Laborer G1 Vibrator, Green Cutter	454.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Laborer G2 Concrete Laborer	7781.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Laborer G2 General	9894.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Laborer G2 High Pressure Nozzleman	331.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Lead Miner	1041.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Loader Operator	424.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Mechanic / Welder	1877.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Miner	8756.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	OPERATING ENGINEER FOREMAN	735.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Operator G1a Cranes>100 t	3378.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Operator G2 Excavator 3.5 to 7.0 cy	735.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Operator G2 Finish Blade	70.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Operator G2a Cranes 45 to 100 t	1314.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Operator G3 Loader >4cy	679.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Operator G4 Dozer & Push Cat	1471.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Operator G4 Grade Check	368.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Operator G4 Hvy Duty Mechanic	244.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Operator G5 Concrete Pump	323.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Operator G7 Oiler	3978.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Pile Driver Journeyman	900.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Shaft Crane Operator	1680.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Shifter	1041.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Teamster G2 Hwy ED 6-8cy, Water<7	297.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Teamster G3 ED 8-24cy, Water>7mg;	3682.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Teamster G4 Tractor, Lowbed/Trailei	225.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Toplander	2721.5	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-14		112405.2	390		
Intake 5 - Central & Eastern - 15	Carpenter Apprentice	923.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Carpenter Foreman	3486.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Carpenter Journeyman	2811.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Carpenter, Bridge and Highway	923.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	CEMENT MASON	82.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Cement Mason Foreman	27.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Electrical Foreman	165.0	10	Sacramento to/from Intake 5	19

Intake 5 - Central & Eastern - 15	Electrician Journeyman	1973.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Iron Worker Foreman	72.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Iron Worker Journeyman Rebar/Stru	1741.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Iron Worker-Rigger	634.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Laborer G1 Vibrator, Green Cutter	27.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Laborer G2 Concrete Laborer	110.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Laborer G2 General	4229.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Laborer G3 Flagman	50.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Millwright	11430.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	OPERATING ENGINEER FOREMAN	50.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Operator G1a Cranes>100 t	634.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Operator G2a Cranes 45 to 100 t	13.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Operator G3 Loader >4cy	50.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Operator G3a Cranes 45 t and under	6.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Operator G4 Dozer & Push Cat	50.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Operator G4 Grade Check	50.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Operator G4 Hvy Duty Mechanic	36.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Operator G4a Boom truck<15 ton	1423.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Operator G5 Compactor w-blade	50.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Operator G5 Concrete Pump	5.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Operator G6 Tractor	200.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Operator G7 Oiler	634.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Operator G8 Pump	200.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Operator G8a Skidsteer <Bobcat 743	200.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Pipefitter Apprentice	73.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Pipefitter Foreman	36.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Pipefitter Journeyman	220.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Teamster G1 Hwy ED<6cy, Flatbed	506.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Teamster G2 Hwy ED 6-8cy, Water<7	225.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Teamster G3 ED 8-24cy, Water>7mg;	113.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Teamster G4 Tractor, Lowbed/Traile	571.5	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-15		34038.7	380		
Intake 5 - Central & Eastern - 16	Carpenter Apprentice	180.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 16	Carpenter Foreman	180.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 16	Carpenter Journeyman	360.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 16	Electrical Foreman	45.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 16	Electrician Journeyman	180.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 16	Iron Worker Journeyman Rebar/S	360.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 16	Laborer G2 General	360.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 16	Operator G4a Boom truck<15 ton	180.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 16	Teamster G3 Boom Truck	90.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 16	Teamster G4 Tractor, Lowbed/Tr	400.0	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-16		2335.0	100.0		
Intake 5 - Central & Eastern - 17	Carpenter Apprentice	276.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Carpenter Foreman	6079.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Carpenter Journeyman	6325.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Carpenter, Bridge and Highway	276.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	CEMENT MASON	27.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Cement Mason Foreman	9.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Dredge Captain	78.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Dredge Tender	495.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Electrical Foreman	550.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Electrician Journeyman	4417.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Iron Worker Foreman	6065.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Iron Worker Journeyman	8224.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Rebar/Struct	10010.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Iron Worker-Rigger	10010.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Laborer G1 Vibrator, Green Cutter	9.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Laborer G2 Concrete Laborer	36.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Laborer G2 General	15116.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Laborer G3 Flagman	10.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Millwright	34532.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	OPERATING ENGINEER FOREMAN	118.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Operator G1a Cranes>100 t	3383.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Operator G2a Cranes 45 to 100 t	2800.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Operator G3 Gradall	108.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Operator G3 Loader >4cy	118.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Operator G3a Cranes 45 t and under	10.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Operator G4 Dozer & Push Cat	10.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Operator G4 Grade Check	10.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Operator G4 Hvy Duty Mechanic	52.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Operator G4a Boom truck<15 ton	2206.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Operator G5 Compactor w-blade	10.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Operator G5 Concrete Pump	1.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Operator G7 Oiler	589.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Pile Driver Foreman	1115.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Pipefitter Apprentice	4298.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Pipefitter Foreman	2389.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Pipefitter Journeyman	10178.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Teamster G1 Hwy ED<6cy, Flatbed	4438.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Teamster G2 Hwy ED 6-8cy,	5.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Teamster G3 ED 8-24cy,	29.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Water>7mgal				
TOTAL Intake 5 - Central & Eastern-17		124418.1	380		
Intake 5 - Central & Eastern - 18	Iron Worker-Rigger	14.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 18	Laborer G2 General	538.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 18	Laborer G3 Flagman	109.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 18	OPERATING ENGINEER FOREMAN	189.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 18	Operator G2 Finish Blade	54.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 18	Operator G3 BH-Loader>3/4cy	134.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 18	Operator G3 Loader >4cy	54.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 18	Operator G4 Grade Check	175.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 18	Operator G4a Boom truck<15 ton	14.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 18	Operator G5 Asphalt Roller	240.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 18	Operator G5 Compactor w-blade	54.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 18	Operator G5 Paver	120.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 18	Operator G8 Pump	10.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 18	Teamster G2 Hwy ED 6-8cy, Water<7	114.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 18	Teamster G3 Boom Truck	14.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 18	Teamster G3 ED 8-24cy, Water>7mg;	164.1	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-18		2005.5	160		

Intake 5 - Central & Eastern - 19	Carpenter Apprentice	553.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Carpenter Foreman	644.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Carpenter Journeyman	553.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Carpenter, Bridge and Highway	1106.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	CEMENT MASON	271.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Cement Mason Foreman	90.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Electrical Foreman	1386.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Electrician Journeyman	3233.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Iron Worker Foreman	112.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Iron Worker Journeyman Rebar/Stru	2652.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Iron Worker-Rigger	1500.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Laborer Foreman	746.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Laborer G1 Pipe layers	1466.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Laborer G1 Vibrator, Green Cutter	90.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Laborer G2 Concrete Laborer	362.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Laborer G2 General	4240.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Laborer G3 Fence Builder	52.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Laborer G3 Flagman	61.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Laborer G4 Clean-up	692.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	OPERATING ENGINEER FOREMAN	3243.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Operator G1a Cranes>100 t	20.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Operator G2 Excavator 3.5 to 7.0 cy	2915.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Operator G2 Finish Blade	3636.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Operator G2a Cranes 45 to 100 t	165.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Operator G3 BH-Loader>3/4cy	1479.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Operator G3 Loader >4cy	120.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Operator G3a Cranes 45 t and under	928.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Operator G4 Dozer & Push Cat	3514.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Operator G4 Grade Check	2161.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Operator G4 Hwy Duty Mechanic	22.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Operator G4 Scraper	2273.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Operator G4a Boom truck<15 ton	100.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Operator G5 Compactor w-blade	2169.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Operator G5 Concrete Pump	18.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Pile Driver Journeyman	100.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Teamster G1 Hwy ED<6cy, Flatbed	103.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Teamster G2 Hwy ED 6-8cy, Water<7	3193.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Teamster G3 Boom Truck	653.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Teamster G3 ED 8-24cy, Water>7mg;	1045.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Teamster G4 Tractor, Lowbed/Trailei	395.0	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-19		48076.1	400		
Intake 5 - Central & Eastern - 20	Laborer Foreman	147.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 20	Laborer G4 Clean-up	588.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 20	Operator G1a Cranes>100 t	245.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 20	Operator G2a Cranes 45 to 100 t	73.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 20	Operator G4a Boom truck<15 ton	147.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 20	Pile Driver Journeyman	147.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 20	Pile Driver Wharf and Dock	735.0	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-20		2082.5	70.0		
Intake 5 - Central & Eastern - 21	Diver Tender	180.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 21	Laborer Foreman	180.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 21	Laborer G4 Clean-up	720.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 21	Operator G1a Cranes>100 t	180.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 21	Operator G2a Cranes 45 to 100 t	180.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 21	Pile Driver Journeyman	180.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 21	Pile Driver Wharf and Dock	900.0	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-21		2520.0	70.0		
Intake 5 - Central & Eastern - 22	Carpenter Journeyman	199.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Cement Mason Journeyman	1016.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Electrical Foreman	300.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Electrical Lineman	300.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Iron Worker-Rigger	95.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Laborer Foreman	2471.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Laborer G1 Pipe layers	2974.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Laborer G2 Concrete Laborer	399.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Laborer G2 General	12099.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Laborer G3 Fence Builder	502.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Laborer G3 Flagman	233.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Laborer G6 Gunnite Nozzleman	916.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	OPERATING ENGINEER FOREMAN	1132.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G1a Cranes>100 t	90.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G2 Finish Blade	116.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G2 Plant Operator	405.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G2a Cranes 45 to 100 t	90.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G3 BH-Loader>3/4cy	3391.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G3 Loader >4cy	405.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G3a Cranes 45 t and under	95.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G4 BH-Loader <.76cy	95.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G4 Grade Check	605.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G4a Boom truck<15 ton	95.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G5 Asphalt Roller	168.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G5 Compactor w-blade	405.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G5 Curb & Gutter Conc Fini	199.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G5 Paver	489.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G6 Grout Mach	458.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G7 Oller	495.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G7 Roller, Compactor	116.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G8 Pump	23.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G8a Skidsteer <Bobcat 743	1600.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Pile Driver Foreman	450.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Teamster G1 Hwy ED<6cy, Flatbed	2289.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Teamster G2 Hwy ED 6-8cy, Water<7	3371.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Teamster G3 Boom Truck	95.0	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-22		38191.0	360.0		
Intake 5 - Central & Eastern - 23	Electrical Foreman	550.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 23	Electrician Journeyman	3304.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 23	Laborer Foreman	302.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 23	Laborer G2 General	550.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 23	Laborer G4 Clean-up	1814.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 23	Operator G4a Boom truck<15 ton	604.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 23	Operator G6 Tractor	302.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 23	Operator G8 Pump	302.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 23	Operator G8a Skidsteer <Bobcat 743	302.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 23	Teamster G1 Hwy ED<6cy, Flatbed	853.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 23	Teamster G2 Hwy ED 6-8cy, Water<7	302.4	10	Sacramento to/from Intake 5	19

TOTAL Intake 5 - Central & Eastern-23		9190.8	110.0		
Intake 5 - Central & Eastern - 24	Laborer G2 General	20.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 24	Laborer G3 Flagman	440.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 24	OPERATING ENGINEER FOREMAN	330.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 24	Operator G2 Finish Blade	70.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 24	Operator G3 Loader >4cy	20.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 24	Operator G4 Dozer & Push Cat	880.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 24	Operator G4 Scraper	400.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 24	Operator G6 Tractor	170.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 24	Teamster G2 Hwy ED 6-8cy, Water<7	255.0	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-24		2585.0	90		
Intake 5 - Central & Eastern - 25	Carpenter Foreman	240.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 25	Laborer G2 General	240.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 25	Millwright	480.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 25	Operator G2a Cranes 45 to 100 t	33.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 25	Operator G7 Oiler	33.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 25	Pipefitter Apprentice	260.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 25	Pipefitter Foreman	260.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 25	Pipefitter Journeyman	1040.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 25	Teamster G1 Hwy ED<6cy, Flatbed	57.8	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-25		2645.4	90.0		

Marine Inventory for Intake 5_3000 cfs_Central & Eastern
Options 1B, 2B, 5B, 6B, 9B, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
Intake 5 - Central & Eastern - 17	Rock from Stockton and Dredged Soil to Stockton No docks at Intake	2 barges (one with rock and one with equipment) with 2 tugboats will make 3 round trips							

Assume 87 miles/round trip; 9 mph empty and 6 mph loaded per Barges TM

Locomotive Inventory for Intake
Options 1B, 2B, 5B, 6B, 9B, 10B

NOT NEEDED

**Helicopter Inventory for Intake 5_3000 cfs_Central & Eastern
Options 1B, 2B, 5B, 6B, 9B, 10B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Demolition Assumptions for Intake 5_3000 cfs_Central & Eastern
Options 1B, 2B, 5B, 6B, 9B, 10B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

**Construction Schedule for Lambert Rd Conc Batch Plant - Central & Eastern
Options 1A, 1B, 2A, 2B**

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	LR CBP-C&E -1	10/7/2026	10/14/2026	6	5	10
Embankment	LR CBP-C&E -2	10/15/2026	10/15/2026	1	1	10
Culvert Pipe	LR CBP-C&E -3	10/16/2026	10/16/2026	1	1	10
Subdrain System	LR CBP-C&E -4	10/19/2026	10/19/2026	1	1	10
Road Base	LR CBP-C&E -5	10/20/2026	10/22/2026	3	3	10
Asphalt Paving	LR CBP-C&E -6	10/23/2026	10/27/2026	5	5	10
Erect Batch Plant	LR CBP-C&E -7	10/28/2026	12/22/2026	40	5	10
Batch Plant Operations - Phase 1 - Concrete for Shafts	LR CBP-C&E -8	3/17/2027	3/14/2031	1041	5	10
Batch Plant Operations - Phase 2 - Concrete for Intake 5	LR CBP-C&E -9	4/2/2029	10/25/2034	1452	5	10
Batch Plant Operations - Phase 3 - Concrete for Intake 3	LR CBP-C&E -10	2/11/2030	1/29/2035	1294	5	10

Acres

Offroad Equipment (Fossil Fuel) Inventory for Lambert Rd Conc Batch Plant - Central & Eastern
Options 1A, 1B, 2A, 2B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
LR CBP-C&E -2	CAT D6LGP Dozer w winch	Crawler Tractor	30.55	1	31	Diesel Tier 4 or Hybrid Dies	179	0.43		
LR CBP-C&E -2	Disk, Towed	Off-Highway Tractor	30.55	1	31	Diesel	140	0.44		
LR CBP-C&E -2	CAT 14 M	Grader	15.3	1	15	Diesel	274	0.41		
LR CBP-C&E -2	Water Pump, 4" Diesel	Pumps	3.65	1	4	Diesel	10	0.74		
LR CBP-C&E -2	CAT 815, Roller	Roller	30.55	1	31	Diesel	170	0.38		
LR CBP-C&E -3	Air Compressor 375 cfm	Air Compressor	13.9	1	14	Diesel Tier 4	122	0.48		
LR CBP-C&E -3	CAT LOADER/HOE 416 E	Rubber Tired Loader	27.8	1	28	Diesel	78	0.36		
LR CBP-C&E -3	Compactor, Plate, 22"w x 35"	Plate Compactor	13.9	1	14	Diesel	8.5	0.43		
LR CBP-C&E -4	CAT LOADER/HOE 416 E	Rubber Tired Loader	3.15	1	3	Diesel	78	0.36		
LR CBP-C&E -4	Compactor, Trench Roller, Vib 32"w	Roller	6.25	1	6	Diesel	20	0.38		
LR CBP-C&E -5	CAT 14 M	Grader	108.1	3	36	Diesel	274	0.41		
LR CBP-C&E -5	Water Pump, 4" Diesel	Pumps	108.1	3	36	Diesel	10	0.74		
LR CBP-C&E -5	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	108.1	3	36	Diesel	156	0.38		
LR CBP-C&E -6	CAT LOADER/HOE 416 E	Rubber Tired Loader	124.6	5	25	Diesel	78	0.36		
LR CBP-C&E -6	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	124.6	5	25	Diesel or Hybrid	224	0.42		
LR CBP-C&E -6	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	124.6	5	25	Diesel or Hybrid	137	0.38		
LR CBP-C&E -6	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	124.6	5	25	Diesel or Hybrid	133	0.38		
LR CBP-C&E -7	Air Compressor 185 cfm	Crane	800	40	20	Diesel or Hybrid	100	0.29		
LR CBP-C&E -7	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lift	400	40	10	Diesel	78	0.36		
LR CBP-C&E -7	Grove RT Crane 80T, 275hp	Crane	800	40	20	Diesel	275	0.29		
LR CBP-C&E -7	Boom Truck, 12.5 Tn Boom	Crane	400	40	10	Diesel or Hybrid	100	0.29		
LR CBP-C&E -8	Portable, 300 Kw, Diesel 480hp	Generator	4340	1041	4	Diesel Tier 4	400	0.74		
LR CBP-C&E -8	CAT 962 H Wheel Loader	Rubber Tired Loader	6511	1041	6	Diesel or Hybrid	230	0.36		
LR CBP-C&E -8	Bobcat S630 Skid Steer Loader	Skid Loader	2553	1041	2	Diesel	74	0.37		
LR CBP-C&E -9	Portable, 300 Kw, Diesel 480hp	Generator	6345	1452	4	Diesel Tier 4	400	0.74		
LR CBP-C&E -9	CAT 962 H Wheel Loader	Rubber Tired Loader	9517	1452	7	Diesel or Hybrid	230	0.36		
LR CBP-C&E -9	Bobcat S630 Skid Steer Loader	Skid Loader	3732	1452	3	Diesel	74	0.37		
LR CBP-C&E -10	Portable, 300 Kw, Diesel 480hp	Generator	6030	1294	5	Diesel Tier 4	400	0.74		
LR CBP-C&E -10	CAT 962 H Wheel Loader	Rubber Tired Loader	9045	1294	7	Diesel or Hybrid	230	0.36		
LR CBP-C&E -10	Bobcat S630 Skid Steer Loader	Skid Loader	3547	1294	3	Diesel	74	0.37		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

**Offroad Equipment (Electric) Inventory for Lambert Rd Conc Batch Plant - Central & Eastern
Options 1A, 1B, 2A, 2B**

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
LR CBP-C&E -7	400A, Electric Welder	800	40	15	300
LR CBP-C&E -8	400A, Electric Welder	511	1041	15	7
LR CBP-C&E -9	400A, Electric Welder	746	1452	15	8
LR CBP-C&E -10	400A, Electric Welder	709	1294	15	8
LR CBP-C&E -2	Light Plant, 4 lite, 1000w, Tower/Masts	122 hr	1		

Vehicle Inventory for Lambert Rd Conc Batch Plant - Central & Eastern
Options 1A, 1B, 2A, 2B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/Trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (mpg) (if known)	Fuel (gal/day) (if known)
Vehicle Use on Paved Roads — and Not on Construction Site													
LR CBP-CBE -1	Pickup, 1/2T, 2wd	Materials from Sacramento	6	128	0.6	225	38	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
LR CBP-CBE -2	Pickup, 1/2T, 2wd	Materials from Sacramento	1	31	0.6	54	54	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
LR CBP-CBE -2	Cat 30mgel w/Cat 770, 512HP	Materials from Sacramento	1	15	0.6	27	27	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -2	Truck, Flatbed, 10T, 16wy	Grader from Sacramento	1	1	0.6	1	1.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -2	Truck, Flatbed, 10T, 16wy	Dozer and Roller to and from Sacramento	2	2	0.6	4	2.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -2	Truck' End Dump' 16-20cy' 16wy	Gravel from Sacramento	1	939	0.6	1657	1657	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -3	Truck, Flatbed, 10T, 16wy	Materials from Sacramento	1	14	0.6	25	25	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -3	Truck, Flatbed, 10T, 16wy	Loader and Compactor from Sacramento	1	1	0.6	2	2.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -4	Truck, End Dump, 10-13cy, 16wy	Materials from Sacramento	1	6	0.6	11	11	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -4	Truck, Flatbed, 10T, 16wy	Compactor to Sacramento	1	1	0.6	1	1.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -5	Pickup, 3/4T, 4wd	Materials from Sacramento	3	108	0.6	191	64	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
LR CBP-CBE -5	Truck' End Dump' 16-20cy' 16wy	Base Rock from Sacramento	1041	579	0.6	1021	1	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -5	Truck, Flatbed, 10T, 16wy	Roller to and from Sacramento	2	1	0.6	2	1.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -5	Truck, Flatbed, 10T, 16wy	Grader to Sacramento	1	1	0.6	1	1.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -6	Truck, Flatbed, 10T, 16wy	Paver and two Rollers to and from Sacramento	2	3	0.6	6	3.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -6	Truck & Bottom Dump' 25cy' 30T	Asphalt, Hot Mix Materials from Sacramento	5	388.3	0.6	685	137	Franklin Boulevard to/from Sacramento	17	34	Diesel Tier 4		
LR CBP-CBE -6	Truck, Flatbed, 10T, 16wy	Loader to Sacramento	1	1	0.6	1	1.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -7	Pickup, 1/2T, 2wd	Materials from Sacramento	40	800	0.6	1412	35	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
LR CBP-CBE -7	Truck, Flatbed, 10T, 16wy	Two Cranes and Aerial Lift to and from Sacramento	2	3	0.6	6	3.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -8	Pickup, 1/2T, 2wd	Materials from Sacramento	1041	2553	0.6	4506	4	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
LR CBP-CBE -8	Truck, Flatbed, 10T, 16wy	Two Loaders from Sacramento	1	1	0.6	2	2.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -8	Truck' End Dump' 16-20cy' 16wy	Cement from Sacramento	1041	1027	0.6	1813	2	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -8	Truck' End Dump' 16-20cy' 16wy	Concrete Aggregate from Sacramento	1041	1923	0.6	3394	3	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -8	Truck' End Dump' 16-20cy' 16wy	Concrete Sand from Sacramento	1041	1535	0.6	2709	3	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -8	Truck' End Dump' 16-20cy' 16wy	Flyash from Sacramento	1041	150	0.6	264	0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -9	Pickup, 1/2T, 2wd	Materials from Sacramento	1452	3732	0.6	6586	5	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
LR CBP-CBE -9	Truck' End Dump' 16-20cy' 16wy	Cement from Sacramento	1452	416	0.6	734	1	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -9	Truck' End Dump' 16-20cy' 16wy	Concrete Aggregate from Sacramento	1452	4007	0.6	7072	5	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -9	Truck' End Dump' 16-20cy' 16wy	Concrete Sand from Sacramento	1452	3198	0.6	5644	4	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -9	Truck' End Dump' 16-20cy' 16wy	Flyash from Sacramento	1452	311	0.6	549	0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -10	Pickup, 1/2T, 2wd	Materials from Sacramento	1294	3547	0.6	6260	5	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
LR CBP-CBE -10	Truck, Flatbed, 10T, 16wy	Two Loaders to Sacramento	1	1	0.6	2	2.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -10	Truck' End Dump' 16-20cy' 16wy	Cement from Sacramento	1294	1926	0.6	3399	3	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -10	Truck' End Dump' 16-20cy' 16wy	Concrete Aggregate from Sacramento	1294	3606	0.6	6363	5	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -10	Truck' End Dump' 16-20cy' 16wy	Concrete Sand from Sacramento	1294	2877	0.6	5077	4	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -10	Truck' End Dump' 16-20cy' 16wy	Flyash from Sacramento	1294	280	0.6	494	0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) — on the Construction Site													
LR CBP-CBE -1	Cat 750 30T, Articulated End Dump	Dumpers	6	766.65	not applicable	not applicable	not applicable	on-the-assumed 5 miles/hour		3833	Diesel Tier 4 or Hybrid Diesel		
LR CBP-CBE -1	Truck, End Dumps, 10-13cy, 16wy	Dumpers	6	766.65	not applicable	not applicable	not applicable	on-the-assumed 5 miles/hour		3833	Diesel		

**Employees Required to Lambert Rd Conc Batch Plant - Central & Eastern
Options 1A, 1B, 2A, 2B**

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip
LR CBP-C&E -1	Operator G4 Dozer & Push Cat	255.55	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -1	Operator G2 Excavator 3.5 to 7.0	255.55	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -1	OPERATING ENGINEER FOREMAN	127.75	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -1	Teamster G2 Hwy ED 6-8cy, Wate	766.65	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -1	Teamster G3 ED 8-24cy, Water>7	766.65	10		Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-1						
LR CBP-C&E -2	Laborer G2 General	3.65	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -2	Operator G5 Compactor w-blade	30.55	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -2	Operator G4 Dozer & Push Cat	30.55	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -2	OPERATING ENGINEER FOREMAN	30.55	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -2	Operator G2 Finish Blade	15.3	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -2	Teamster G2 Hwy ED 6-8cy, Water<7	15.3	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -2	Teamster G3 ED 8-24cy, Water>7	15.3	10		Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-2						
LR CBP-C&E -3	Laborer G1 Pipe layers	55.55	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -3	Laborer Foreman	13.9	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -3	Operator G3 BH-Loader>3/4cy	27.8	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -3	Teamster G1 Hwy ED<6cy, Flatbed	20.85	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -3	Teamster G2 Hwy ED 6-8cy, Water<7	6.95	10		Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-3						
LR CBP-C&E -4	Laborer G1 Pipe layers	12.5	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -4	Laborer G1 Power Tamper	6.25	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -4	Operator G4 Loader <4.1cy	3.15	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -4	Teamster G2 Hwy ED 6-8cy, Water<7	6.25	10		Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-4						
LR CBP-C&E -5	Laborer G3 Flagman	216.25	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -5	Operator G7 Roller, Compactor	108.1	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -5	OPERATING ENGINEER FOREMAN	108.1	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -5	Operator G4 Grade Check	108.1	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -5	Operator G2 Finish Blade	108.1	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -5	Operator G8 Generator	21.6	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -5	Teamster G2 Hwy ED 6-8cy, Water<7	108.1	10		Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-5						
LR CBP-C&E -6	Laborer G2 General	498.35	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -6	Operator G5 Asphalt Roller	249.2	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -6	Operator G3 BH-Loader>3/4cy	124.6	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -6	OPERATING ENGINEER FOREMAN	124.6	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -6	Operator G4 Grade Check	124.6	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -6	Operator G5 Paver	124.6	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -6	Teamster G2 Hwy ED 6-8cy, Water<7	62.3	10		Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-6						
LR CBP-C&E -7	Carpenter Apprentice	800	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7	Carpenter Foreman	800	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7	Millwright	800	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7	Electrical Foreman	400	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7	Electrician Journeyman	800	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7	Iron Worker Journeyman Rebar/Stru	1600	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7	Laborer G2 General	1600	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7	Operator G2a Cranes 45 to 100 t	800	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7	Teamster G3 Boom Truck	400	10		Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-7						
LR CBP-C&E -8	Laborer G4 Clean-up	5106	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -8	Operator G3 Loader >4cy	7659	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -8	OPERATING ENGINEER FOREMAN	2553	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -8	Operator G5 Concrete Conveyor	2553	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -8	Operator G2 Plant Operator	2553	10		Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-8						
LR CBP-C&E -9	Laborer G4 Clean-up	11196.26	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -9	Operator G3 Loader >4cy	11196.26	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -9	OPERATING ENGINEER FOREMAN	3732.09	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -9	Operator G5 Concrete Conveyor	3732.09	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -9	Operator G2 Plant Operator	3732.09	10		Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-9						
LR CBP-C&E -10	Laborer G4 Clean-up	7094.4	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -10	Operator G3 Loader >4cy	10641.6	10		Sacramento to/from Franklin Boulevard	17

LR CBP-C&E -10	OPERATING ENGINEER FOREMAN	3547.2	10	Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -10	Operator G5 Concrete Conveyor	3547.2	10	Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -10	Operator G2 Plant Operator	3547.2	10	Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-9					

Marine Inventory for Lambert Rd Conc Batch Plant - Central & Eastern
Options 1A, 1B, 2A, 2B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Lambert Rd Conc Batch Plant - Central & Eastern
Options 1A, 1B, 2A, 2B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Lambert Rd Conc Batch Plant - Central & Eastern
Options 1A, 1B, 2A, 2B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Options 1A, 1B, 2A, 2B

[illegible]

**Demolition Assumptions for Lambert Rd Conc Batch Plant - Central & Eastern
Options 1A, 1B, 2A, 2B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Dierssen Rd - Central & Eastern Access Road
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	DRd-C&E Access -1	1/18/2027	1/21/2027	4	4	10
Embankment	DRd-C&E Access -2	1/22/2027	1/26/2027	5	5	10
Culvert Pipe	DRd-C&E Access -3	1/27/2027	1/27/2027	1	1	10
Subdrain System	DRd-C&E Access -4	1/28/2027	2/9/2027	9	5	10
Road Base	DRd-C&E Access -5	2/10/2027	2/18/2027	7	5	10
Asphalt Paving	DRd-C&E Access -6	2/19/2027	2/22/2027	4	4	10
KRail and Signs	DRd-C&E Access -7	2/23/2027	3/16/2027	14	5	10
Intermediate Overlay	DRd-C&E Access -8	5/22/2030	5/24/2030	3	3	10
Final Overlay	DRd-C&E Access -9	7/21/2037	7/24/2037	4	4	10

Acres **7.2**

**Offroad Equipment (Fossil Fuel) Inventory for Dierssen Rd - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B**

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
DRd-C&E Access -1	CAT D6LGPDozer w winch	Crawler Tractor	34.33	4	9	Diesel Tier 4 or Hybrid Dies	179	0.43		
DRd-C&E Access -1	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	34.33	4	9	Diesel	384	0.38		
DRd-C&E Access -2	CAT D6LGPDozer w winch	Crawler Tractor	11.45	5	2	Diesel Tier 4 or Hybrid Dies	179	0.43		
DRd-C&E Access -2	Disk, Towed	Off-Highway Tractor	11.45	5	2	Diesel	140	0.44		
DRd-C&E Access -2	CAT 14 M	Grader	5.72	5	1	Diesel	274	0.41		
DRd-C&E Access -2	Water Pump, 4" Diesel	Pumps	1.37	5	0	Diesel	10	0.74		
DRd-C&E Access -2	CAT 815, Roller	Roller	11.45	5	2	Diesel	170	0.38		
DRd-C&E Access -3	Air Compressor 375 cfm	Air Compressor	2.61	1	3	Diesel Tier 4	122	0.48		
DRd-C&E Access -3	CAT LOADER/HOE 416 E	Rubber Tired Loader	5.22	1	5	Diesel	78	0.36		
DRd-C&E Access -3	Compactor, Plate, 22" w x 35"	Plate Compactor	2.61	1	3	Diesel	8.5	0.43		
DRd-C&E Access -4	CAT LOADER/HOE 416 E	Rubber Tired Loader	16.1	9	2	Diesel	78	0.36		
DRd-C&E Access -4	Compactor, Trench Roller, Vib 32" w	Roller	32.21	9	4	Diesel	20	0.38		
DRd-C&E Access -5	CAT 14 M	Grader	34.33	7	5	Diesel	274	0.41		
DRd-C&E Access -5	Water Pump, 4" Diesel	Pumps	34.33	7	5	Diesel	10	0.74		
DRd-C&E Access -5	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	34.33	7	5	Diesel	156	0.38		
DRd-C&E Access -6	CAT LOADER/HOE 416 E	Rubber Tired Loader	22.32	4	6	Diesel	78	0.36		
DRd-C&E Access -6	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	22.32	4	6	Diesel or Hybrid	224	0.42		
DRd-C&E Access -6	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	22.32	4	6	Diesel or Hybrid	137	0.38		
DRd-C&E Access -6	Asphalt Rolller, 17.6 Tn Pneumatic,133hp	Roller	22.32	4	6	Diesel or Hybrid	133	0.38		
DRd-C&E Access -7	Boom Truck, 12.5 Tn Boom	Crane	50	14	4	Diesel or Hybrid	100	0.29		
DRd-C&E Access -7	CAT LOADER/HOE 416 E	Rubber Tired Loader	50	14	4	Diesel	78	0.36		
DRd-C&E Access -8	CAT LOADER/HOE 416 E	Rubber Tired Loader	20.88	3	7	Diesel	78	0.36		
DRd-C&E Access -8	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	20.88	3	7	Diesel or Hybrid	224	0.42		
DRd-C&E Access -8	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	20.88	3	7	Diesel or Hybrid	137	0.38		
DRd-C&E Access -8	Asphalt Rolller, 17.6 Tn Pneumatic,133hp	Roller	20.88	3	7	Diesel or Hybrid	133	0.38		
DRd-C&E Access -9	CAT LOADER/HOE 416 E	Rubber Tired Loader	20.88	4	5	Diesel	78	0.36		
DRd-C&E Access -9	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	20.88	4	5	Diesel or Hybrid	224	0.42		
DRd-C&E Access -9	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	20.88	4	5	Diesel or Hybrid	137	0.38		
DRd-C&E Access -9	Asphalt Rolller, 17.6 Tn Pneumatic,133hp	Roller	20.88	4	5	Diesel or Hybrid	133	0.38		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Dierssen Rd - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
DRd-C&E Access -2	Light Plant, 4 lite, 1000w, Tower/Mast	45.8 hours	5		

Vehicle Inventory for Dienssen Rd - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (mpg) (if known)	Fuel (gal/day) (if known)
Vehicle Use on Paved Roads — and Not on Construction Site													
DRJ-CRE Access-1	Pickup, 1/2T, 2wd	Materials from Sacramento	4	17	0.6	30	8	Dienssen Road to/from Sacramento	17	34	Hybrid Gasoline		
DRJ-CRE Access-1	Truck, End Dump, 10-13cy, Hwy	Materials from Sacramento	4	69	0.6	121	30	Dienssen Road to/from Sacramento	17	34	Diesel		
DRJ-CRE Access-1	Truck, Water, 4 mgal, Hwy	Water from Sacramento	4	3	0.1	19	5	Dienssen Road to/from Sacramento	4	8	Diesel		
DRJ-CRE Access-1	Truck, Flatbed, 10T, Hwy	Dozer from Sacramento	1	1	0.6	1	1.0	Dienssen Road to/from Sacramento	17	34	Diesel		
DRJ-CRE Access-1	Truck, Flatbed, 10T, Hwy	Excavator to and from Sacramento	2	1	0.6	2	1.0	Dienssen Road to/from Sacramento	17	34	Diesel		
DRJ-CRE Access-2	Pickup, 1/2T, 2wd	Materials from Sacramento	5	11	0.6	20	4	Dienssen Road to/from Sacramento	17	34	Hybrid Gasoline		
DRJ-CRE Access-2	Truck, Flatbed, 10T, Hwy	Dozer to Sacramento	1	1	0.6	1	1.0	Dienssen Road to/from Sacramento	17	34	Diesel		
DRJ-CRE Access-2	Truck, Flatbed, 10T, Hwy	Grader to and from Sacramento	2	1	0.6	2	1.0	Dienssen Road to/from Sacramento	17	34	Diesel		
DRJ-CRE Access-2	Truck, Flatbed, 10T, Hwy	Roller to and from Sacramento	2	1	0.6	2	1.0	Dienssen Road to/from Sacramento	17	34	Diesel		
DRJ-CRE Access-2	Truck, Water, 4 mgal, Hwy	Water from Sacramento	5	4	0.1	28	6	Dienssen Road to/from Sacramento	4	8	Diesel		
DRJ-CRE Access-2	Truck, End Dump, 16-20cy, Hwy	Gravel from Sacramento	5	27	0.6	48	10	Dienssen Road to/from Sacramento	17	34	Diesel		
DRJ-CRE Access-3	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	1	3	0.6	5	5	Dienssen Road to/from Sacramento	17	34	Diesel		
DRJ-CRE Access-3	Truck, Flatbed, 10T, Hwy	Loader from Sacramento	1	1	0.6	1	1.0	Dienssen Road to/from Sacramento	17	34	Diesel		
DRJ-CRE Access-3	Truck, Flatbed, 10T, Hwy	Plot Compactor to and from Sacramento	2	1	0.6	2	1.0	Dienssen Road to/from Sacramento	17	34	Diesel		
DRJ-CRE Access-3	Truck, End Dump, 16-20cy, Hwy	Gravel from Sacramento	1	1	0.6	1	1	Dienssen Road to/from Sacramento	17	34	Diesel		
DRJ-CRE Access-4	Truck, End Dump, 10-13cy, Hwy	Materials from Sacramento	9	32	0.6	57	6	Dienssen Road to/from Sacramento	17	34	Diesel		
DRJ-CRE Access-4	Truck, Flatbed, 10T, Hwy	Roller to and from Sacramento	2	1	0.6	2	1.0	Dienssen Road to/from Sacramento	17	34	Diesel		
DRJ-CRE Access-4	Truck, End Dump, 16-20cy, Hwy	Gravel from Sacramento	1	3	0.6	5	5	Dienssen Road to/from Sacramento	17	34	Diesel		
DRJ-CRE Access-5	Truck, Flatbed, 10T, Hwy	Roller to and from Sacramento	2	1	0.6	2	1.0	Dienssen Road to/from Sacramento	17	34	Diesel		
DRJ-CRE Access-5	Pickup, 3/4T, 4wd	Materials from Sacramento	7	34	0.6	61	9	Dienssen Road to/from Sacramento	17	34	Hybrid Gasoline		
DRJ-CRE Access-5	Truck, End Dump, 16-20cy, Hwy	Base Rock from Sacramento	7	177	0.6	312	45	Dienssen Road to/from Sacramento	17	34	Diesel		
DRJ-CRE Access-6	Truck, Flatbed, 10T, Hwy	Paver and two Rollers to and from Sacramento	2	3	0.6	6	3.0	Dienssen Road to/from Sacramento	17	34	Diesel		
DRJ-CRE Access-6	Truck, Water, 4 mgal, Hwy	Water from Sacramento	4	2	0.1	17	4	Dienssen Road to/from Sacramento	4	8	Diesel		
DRJ-CRE Access-6	Truck & Bottom Dump, 21cy, 30T	Asphalt from Sacramento	4	70	0.6	124	31	Dienssen Road to/from Sacramento	17	34	Diesel Tier 4		
DRJ-CRE Access-7	Truck, Flatbed, 10T, Hwy	Loader to Sacramento	1	1	0.6	1	1.0	Dienssen Road to/from Sacramento	17	34	Diesel		
DRJ-CRE Access-7	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	1	0.6	2	1.0	Dienssen Road to/from Sacramento	17	34	Diesel		
DRJ-CRE Access-8	Truck & Bottom Dump, 21cy, 30T	Asphalt from Sacramento	3	63	0.6	111	37	Dienssen Road to/from Sacramento	17	34	Diesel Tier 4		
DRJ-CRE Access-8	Truck, Flatbed, 10T, Hwy	Paver and two Rollers to and from Sacramento	2	3	0.6	6	3.0	Dienssen Road to/from Sacramento	17	34	Diesel		
DRJ-CRE Access-9	Truck & Bottom Dump, 21cy, 30T	Asphalt from Sacramento	4	63	0.6	111	28	Dienssen Road to/from Sacramento	17	34	Diesel Tier 4		
DRJ-CRE Access-9	Truck, Flatbed, 10T, Hwy	Paver and two Rollers to and from Sacramento	2	3	0.6	6	3.0	Dienssen Road to/from Sacramento	17	34	Diesel		
Vehicle Use on Unpaved/Dirt Surface (no access made at park and ride lot) — on the Construction Site													
DRJ-CRE Access-1	CAT 730 30T, Articulated End Dump	Dumpers	4	102.99	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		515	Diesel Tier 4 or Hybrid Diesel		

Employees Required to Dierssen Rd - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip
DRd-C&E Access -1	Operator G4 Dozer & Push Cat	34.33	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -1	Operator G2 Excavator 3.5 to 7.0	34.33	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -1	OPERATING ENGINEER FOREMAN	17.17	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -1	Teamster G2 Hwy ED 6-8cy, Wate	68.66	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -1	Teamster G3 ED 8-24cy, Water>7	102.99	10		Sacramento to/from Dierssen Road	17
TOTAL DRd-C&E Access-1						
DRd-C&E Access -2	Laborer G2 General	1.37	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -2	Operator G5 Compactor w-blade	11.45	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -2	Operator G4 Dozer & Push Cat	11.45	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -2	OPERATING ENGINEER FOREMAN	11.45	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -2	Operator G2 Finish Blade	5.72	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -2	Teamster G2 Hwy ED 6-8cy, Water<7	11.45	10		Sacramento to/from Dierssen Road	17
TOTAL DRd-C&E Access-2						
DRd-C&E Access -3	Laborer G1 Pipe layers	10.44	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -3	Laborer Foreman	2.61	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -3	Operator G3 BH-Loader>3/4cy	5.22	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -3	Teamster G1 Hwy ED<6cy, Flatbed	3.92	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -3	Teamster G2 Hwy ED 6-8cy, Water<7	1.31	10		Sacramento to/from Dierssen Road	17
TOTAL DRd-C&E Access-3						
DRd-C&E Access -4	Laborer G1 Pipe layers	64.42	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -4	Laborer G1 Power Tamper	32.21	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -4	Operator G4 Loader <4.1cy	16.1	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -4	Teamster G2 Hwy ED 6-8cy, Water<7	32.21	10		Sacramento to/from Dierssen Road	17
TOTAL DRd-C&E Access-4						
DRd-C&E Access -5	Laborer G3 Flagman	68.66	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -5	Operator G7 Roller, Compactor	34.33	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -5	OPERATING ENGINEER FOREMAN	34.33	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -5	Operator G4 Grade Check	34.33	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -5	Operator G2 Finish Blade	34.33	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -5	Operator G8 Generator	6.87	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -5	Teamster G2 Hwy ED 6-8cy, Water<7	34.33	10		Sacramento to/from Dierssen Road	17
TOTAL DRd-C&E Access-5						
DRd-C&E Access -6	Laborer G2 General	89.28	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -6	Operator G5 Asphalt Roller	44.64	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -6	Operator G3 BH-Loader>3/4cy	22.32	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -6	OPERATING ENGINEER FOREMAN	22.32	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -6	Operator G4 Grade Check	22.32	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -6	Operator G5 Paver	22.32	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -6	Teamster G2 Hwy ED 6-8cy, Water<7	11.16	10		Sacramento to/from Dierssen Road	17
TOTAL DRd-C&E Access-6						
DRd-C&E Access -7	Iron Worker-Rigger	50	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -7	Laborer G2 General	200	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -7	Operator G4a Boom truck<15 ton	50	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -7	Operator G3 BH-Loader>3/4cy	50	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -7	OPERATING ENGINEER FOREMAN	50	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -7	Teamster G3 Boom Truck	50	10		Sacramento to/from Dierssen Road	17
TOTAL DRd-C&E Access-7						
DRd-C&E Access -8	Laborer G2 General	83.54	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -8	Operator G5 Asphalt Roller	41.77	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -8	Operator G3 BH-Loader>3/4cy	20.88	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -8	OPERATING ENGINEER FOREMAN	20.88	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -8	Operator G4 Grade Check	20.88	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -8	Operator G5 Paver	20.88	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -8	Teamster G2 Hwy ED 6-8cy, Water<7	10.44	10		Sacramento to/from Dierssen Road	17
TOTAL DRd-C&E Access-8						
DRd-C&E Access -9	Laborer G2 General	83.54	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -9	Operator G5 Asphalt Roller	41.77	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -9	Operator G3 BH-Loader>3/4cy	20.88	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -9	OPERATING ENGINEER FOREMAN	20.88	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -9	Operator G4 Grade Check	20.88	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -9	Operator G5 Paver	20.88	10		Sacramento to/from Dierssen Road	17
DRd-C&E Access -9	Teamster G2 Hwy ED 6-8cy, Water<7	10.44	10		Sacramento to/from Dierssen Road	17
TOTAL DRd-C&E Access-9						

Marine Inventory for Dierssen Rd - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Dierssen Rd - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

Helicopter Inventory for Dierssen Rd - Central & Eastern

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Dierssen Rd - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

[illegible]

Demolition Assumptions for Dierssen Rd - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Franklin Blvd RR - Central & Eastern Access Road
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Sub-Ballast	FB RR-C&E Access -1	6/10/2026	6/25/2026	12	5	10
Ballast	FB RR-C&E Access -2	6/26/2026	7/14/2026	15	5	10
Track	FB RR-C&E Access -3	7/15/2026	8/27/2026	32	5	10

Offroad Equipment (Fossil Fuel) Inventory for Franklin Blvd RR - Central & Eastern Access Road
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
FB RR-C&E Access -1	CAT 14 M	Grader	134.52	12	11	Diesel	274	0.41		
FB RR-C&E Access -1	CAT 962 H Wheel Loader	Rubber Tired Loader	134.52	12	11	Diesel or Hybrid Diesel	230	0.36		
FB RR-C&E Access -1	Water Pump, 4" Diesel	Pumps	26.9	12	2	Diesel	10	0.74		
FB RR-C&E Access -1	CAT C5-64, Roller, 15.7 tn, 156HP	Roller	134.52	12	11	Diesel	156	0.38		
FB RR-C&E Access -2	CAT 14 M	Grader	151.46	15	10	Diesel	274	0.41		
FB RR-C&E Access -2	CAT 962 H Wheel Loader	Rubber Tired Loader	151.46	15	10	Diesel or Hybrid Diesel	230	0.36		
FB RR-C&E Access -2	Water Pump, 4" Diesel	Pumps	30.29	15	2	Diesel	10	0.74		
FB RR-C&E Access -2	CAT C5-64, Roller, 15.7 tn, 156HP	Roller	151.46	15	10	Diesel	156	0.38		
FB RR-C&E Access -3	Grove RT Crane 55T, 247 hp	Crane	1117.56	32	35	Diesel	247	0.29		
FB RR-C&E Access -3	CAT D6LGP Dozer w winch	Crawler Tractor	279.39	32	9	Diesel Tier 4 or Hybrid Dies	179	0.43		
FB RR-C&E Access -3	CAT LOADER/HOE 416 E	Rubber Tired Loader	1117.56	32	35	Diesel	78	0.36		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for for Franklin Blvd RR - Central & Eastern Access Road
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
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NOT NEEDED

Vehicle Inventory for Franklin Blvd RR - Central & Eastern Access Road
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Vehicle	Primary Trip Purpose/Location (within construction Subsites vs. offsite)	# day	Vehicle Hours	Hours/trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/mile)	Fuel (gal/day) (if known)
Vehicle Use on Paved Roads ---and Not on Construction Site													
FB RR-C&E Access -1	Pickup, 1/2T, 2wd	Materials from Sacramento	12	135	0.6	237	20	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
FB RR-C&E Access -1	Pickup, 3/4T, 4wd	Materials from Sacramento	12	135	0.6	237	20	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
FB RR-C&E Access -1	Truck & Bottom Dump, 25cy, 30T	Materials from Sacramento	12	538	0.6	950	79	Franklin Boulevard to/from Sacramento	17	34	Diesel Tier 4		
FB RR-C&E Access -1	Truck, Water, 4 mgal, Hwy	Water from Sacramento	12	0	0.1	1	0.1	Franklin Boulevard to/from Sacramento	4	8	Diesel		
FB RR-C&E Access -1	Truck, Flatbed, 30T, Hwy	Grader, Roller, and Loader from Sacramento	1	2	0.6	3	3	Franklin Boulevard to/from Sacramento	17	34	Diesel		
FB RR-C&E Access -1	Truck & Bottom Dump, 25cy, 30T	Gravel from Sacramento	12	2602	0.6	4591	383	Franklin Boulevard to/from Sacramento	17	34	Diesel Tier 4		
FB RR-C&E Access -1	Truck & Bottom Dump, 25cy, 30T	Sub-ballast from Sacramento	12	635	0.6	1121	93	Franklin Boulevard to/from Sacramento	17	34	Diesel Tier 4		
FB RR-C&E Access -2	Pickup, 1/2T, 2wd	Materials from Sacramento	15	151	0.6	267	18	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
FB RR-C&E Access -2	Pickup, 3/4T, 4wd	Materials from Sacramento	15	151	0.6	267	18	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
FB RR-C&E Access -2	Truck & Bottom Dump, 25cy, 30T	Materials from Sacramento	15	606	0.6	1069	71	Franklin Boulevard to/from Sacramento	17	34	Diesel Tier 4		
FB RR-C&E Access -2	Truck, Water, 4 mgal, Hwy	Water from Sacramento	15	0	0.1	1	0.1	Franklin Boulevard to/from Sacramento	4	8	Diesel		
FB RR-C&E Access -2	Truck, Flatbed, 30T, Hwy	Grader, Roller, and Loader to Sacramento	1	2	0.6	3	3	Franklin Boulevard to/from Sacramento	17	34	Diesel		
FB RR-C&E Access -2	Truck & Bottom Dump, 25cy, 30T	Ballast from Sacramento	15	3095	0.6	1932	129	Franklin Boulevard to/from Sacramento	17	34	Diesel Tier 4		
FB RR-C&E Access -3	Pickup, 1/2T, 2wd	Materials from Sacramento	32	559	0.6	986	31	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
FB RR-C&E Access -3	Truck, Flatbed, 30T, Hwy	Grader, Roller, and Loader from Sacramento	2	3	0.6	6	3	Franklin Boulevard to/from Sacramento	17	34	Diesel		

Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site

**Employees Required for Franklin Blvd RR - Central & Eastern Access Road
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B**

[illegible]

Marine Inventory for Franklin Blvd RR - Central & Eastern Access Road
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Franklin Blvd RR - Central & Eastern Access Road
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

Helicopter Inventory for Franklin Blvd RR - Central & Eastern Access Road
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Franklin Blvd RR - Central & Eastern Access Road
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
FB RR-C&E Access-3	62	32	1.9								

Demolition Assumptions for Franklin Blvd RR - Central & Eastern Access Road
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Franklin Blvd - Central & Eastern Access Road
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	FB-C&E Access -1	11/24/2026	11/30/2026	5	5	10
Embankment	FB-C&E Access -2	12/1/2026	12/16/2026	12	5	10
Culvert Pipe	FB-C&E Access -3	12/17/2026	12/17/2026	1	1	10
Subdrain System	FB-C&E Access -4	12/18/2026	12/28/2026	9	5	10
Road Base	FB-C&E Access -5	12/29/2026	1/15/2027	14	5	10
Asphalt Paving	FB-C&E Access -6	1/18/2027	1/21/2027	4	4	10
KRail and Signs	FB-C&E Access -7	1/22/2027	1/22/2027	1	1	10
Intermediate Overlay	FB-C&E Access -8	5/27/2030	5/29/2030	3	3	10
Final Overlay	FB-C&E Access -9	7/24/2037	7/29/2037	4	4	10

Acres **5**

**Offroad Equipment (Fossil Fuel) Inventory for Franklin Blvd - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B**

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
FB-C&E Access -1	CAT D6LGPDozer w winch	Crawler Tractor	150.99	5	30	Diesel Tier 4 or Hybrid Dies	179	0.43		
FB-C&E Access -1	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	75.5	5	15	Diesel	384	0.38		
FB-C&E Access -2	CAT D6LGPDozer w winch	Crawler Tractor	98.47	12	8	Diesel Tier 4 or Hybrid Dies	179	0.43		
FB-C&E Access -2	Disk, Towed	Off-Highway Tractor	98.47	12	8	Diesel	140	0.44		
FB-C&E Access -2	CAT 14 M	Grader	49.24	12	4	Diesel	274	0.41		
FB-C&E Access -2	Water Pump, 4" Diesel	Pumps	11.82	12	1	Diesel	10	0.74		
FB-C&E Access -2	CAT 815, Roller	Roller	98.47	12	8	Diesel	170	0.38		
FB-C&E Access -3	Air Compressor 375 cfm	Air Compressor	8.61	1	9	Diesel Tier 4	122	0.48		
FB-C&E Access -3	CAT LOADER/HOE 416 E	Rubber Tired Loader	17.22	1	17	Diesel	78	0.36		
FB-C&E Access -3	Compactor, Plate, 22" w x 35"	Plate Compactor	8.61	1	9	Diesel	8.5	0.43		
FB-C&E Access -4	CAT LOADER/HOE 416 E	Rubber Tired Loader	19.91	9	2	Diesel	78	0.36		
FB-C&E Access -4	Compactor, Trench Roller, Vib 32"w	Roller	39.83	9	4	Diesel	20	0.38		
FB-C&E Access -5	CAT 14 M	Grader	87.11	14	6	Diesel	274	0.41		
FB-C&E Access -5	Water Pump, 4" Diesel	Pumps	87.11	14	6	Diesel	10	0.74		
FB-C&E Access -5	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	87.11	14	6	Diesel	156	0.38		
FB-C&E Access -6	CAT LOADER/HOE 416 E	Rubber Tired Loader	61.34	4	15	Diesel	78	0.36		
FB-C&E Access -6	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	61.34	4	15	Diesel or Hybrid	224	0.42		
FB-C&E Access -6	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	61.34	4	15	Diesel or Hybrid	137	0.38		
FB-C&E Access -6	Asphalt Rolller, 17.6 Tn Pneumatic,133hp	Roller	61.34	4	15	Diesel or Hybrid	133	0.38		
FB-C&E Access -7	Boom Truck, 12.5 Tn Boom	Crane	10	1	10	Diesel or Hybrid	100	0.29		
FB-C&E Access -7	CAT LOADER/HOE 416 E	Rubber Tired Loader	10	1	10	Diesel	78	0.36		
FB-C&E Access -8	CAT LOADER/HOE 416 E	Rubber Tired Loader	25.83	3	9	Diesel	78	0.36		
FB-C&E Access -8	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	25.83	3	9	Diesel or Hybrid	224	0.42		
FB-C&E Access -8	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	25.83	3	9	Diesel or Hybrid	137	0.38		
FB-C&E Access -8	Asphalt Rolller, 17.6 Tn Pneumatic,133hp	Roller	25.83	3	9	Diesel or Hybrid	133	0.38		
FB-C&E Access -9	CAT LOADER/HOE 416 E	Rubber Tired Loader	25.83	4	6	Diesel	78	0.36		
FB-C&E Access -9	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	25.83	4	6	Diesel or Hybrid	224	0.42		
FB-C&E Access -9	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	25.83	4	6	Diesel or Hybrid	137	0.38		
FB-C&E Access -9	Asphalt Rolller, 17.6 Tn Pneumatic,133hp	Roller	25.83	4	6	Diesel or Hybrid	133	0.38		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Franklin Blvd - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
FB-C&E Access -2	Light Plant, 4 lite, 1000w, Tower/Mast	394 hours	12		

Vehicle Inventory for Franklin Blvd - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (mpg) (if known)	Fuel (gal/day) (if known)
Vehicle Use on Paved Roads — and Not on Construction Site													
FB-C&E Access -1	Pickup, 1/2T, 2nd	Materials from Sacramento	5	38	0.6	66	13	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
FB-C&E Access -1	Truck, Water, 4 mgal, 1hey	Water from Sacramento	5	2	0.1	14	3	Franklin Boulevard to/from Sacramento	4	8	Diesel		
FB-C&E Access -1	Truck, Flatbed, 10T, 1hey	Dozer from Sacramento	1	1	0.6	1	1.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
FB-C&E Access -1	Truck, Flatbed, 10T, 1hey	Excavator to and from Sacramento	2	1	0.6	2	1.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
FB-C&E Access -2	Pickup, 1/2T, 2nd	Materials from Sacramento	12	98	0.6	174	34	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
FB-C&E Access -2	Cat 10mgal w/Cat 770, 513HP	Materials from Sacramento	12	49	0.6	87	7	Franklin Boulevard to/from Sacramento	17	34	Diesel		
FB-C&E Access -2	Truck, Flatbed, 10T, 1hey	Dozer to Sacramento	1	1	0.6	1	1.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
FB-C&E Access -2	Truck, Flatbed, 10T, 1hey	Grader to and from Sacramento	2	1	0.6	2	1.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
FB-C&E Access -2	Truck, Flatbed, 10T, 1hey	Roller to and from Sacramento	2	1	0.6	2	1.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
FB-C&E Access -2	Truck* End Dump* 16-20cy* 1hey	Gravel from Sacramento	12	535	0.6	944	79	Franklin Boulevard to/from Sacramento	17	34	Diesel		
FB-C&E Access -3	Truck, Flatbed, 10T, 1hey	Materials from Sacramento	1	9	0.6	15	15	Franklin Boulevard to/from Sacramento	17	34	Diesel		
FB-C&E Access -3	Truck, Flatbed, 10T, 1hey	Loader from Sacramento	1	1	0.6	1	1.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
FB-C&E Access -3	Truck, Flatbed, 10T, 1hey	Plate Compactor to and from Sacramento	2	1	0.6	2	1.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
FB-C&E Access -3	Truck* End Dump* 16-20cy* 1hey	Gravel from Sacramento	1	1	0.6	2	2	Franklin Boulevard to/from Sacramento	17	34	Diesel		
FB-C&E Access -4	Truck, End Dump, 10-12cy, 1hey	Materials from Sacramento	9	40	0.6	70	8	Franklin Boulevard to/from Sacramento	17	34	Diesel		
FB-C&E Access -4	Truck, Flatbed, 10T, 1hey	Roller to and from Sacramento	2	1	0.6	2	1.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
FB-C&E Access -4	Truck* End Dump* 16-20cy* 1hey	Gravel from Sacramento	9	3	0.6	6	1	Franklin Boulevard to/from Sacramento	17	34	Diesel		
FB-C&E Access -5	Truck, Flatbed, 10T, 1hey	Roller to and from Sacramento	2	1	0.6	2	1.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
FB-C&E Access -5	Pickup, 3/4T, 4wd	Materials from Sacramento	14	87	0.6	154	11	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
FB-C&E Access -5	Truck* End Dump* 16-20cy* 1hey	Base Rock from Sacramento	14	583	0.6	1029	74	Franklin Boulevard to/from Sacramento	17	34	Diesel		
FB-C&E Access -5	Truck* End Dump* 16-20cy* 1hey	Pitrun Gravel from Sacramento	14	39	0.6	69	5	Franklin Boulevard to/from Sacramento	17	34	Diesel		
FB-C&E Access -6	Truck, Flatbed, 10T, 1hey	Paver and two Rollers to and from Sacramento	2	3	0.6	6	3.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
FB-C&E Access -6	Truck & Bottom Dump* 21cy* 30T	Asphalt from Sacramento	4	477	1.2	409	102	Franklin Boulevard to/from Sacramento	35	70	Diesel Tier 4		
FB-C&E Access -6	Truck, Water, 4 mgal, 1hey	Water from Sacramento	4	2	0.1	17	4	Franklin Boulevard to/from Sacramento	4	8	Diesel		
FB-C&E Access -7	Truck, Flatbed, 10T, 1hey	Loader to Sacramento	1	1	0.6	1	1.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
FB-C&E Access -7	Truck, Flatbed, 10T, 1hey	Crane to and from Sacramento	2	1	0.6	2	1.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
FB-C&E Access -8	Truck, Flatbed, 10T, 1hey	Paver and two Rollers to and from Sacramento	2	3	0.6	6	3.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
FB-C&E Access -8	Truck & Bottom Dump* 21cy* 30T	Asphalt from Sacramento	3	160	1.2	137	46	Franklin Boulevard to/from Sacramento	35	70	Diesel Tier 4		
FB-C&E Access -9	Truck, Flatbed, 10T, 1hey	Paver and two Rollers to and from Sacramento	2	3	0.6	6	3	Franklin Boulevard to/from Sacramento	17	34	Diesel		
FB-C&E Access -9	Truck & Bottom Dump* 21cy* 30T	Asphalt from Sacramento	4	160	1.2	137	34	Franklin Boulevard to/from Sacramento	35	70	Diesel Tier 4		
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) — on the Construction Site													
FB-C&E Access -1	CAT 730 30T, Articulated End Dump	Dumpers	5	377.48	not applicable	not applicable	not applicable	on site: assume 5 miles/hour		1887	Diesel Tier 4 or Hybrid Diesel		

Employees Required to Franklin Blvd - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip
FB-C&E Access -1	Operator G4 Dozer & Push Cat	150.99	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -1	Operator G2 Excavator 3.5 to 7.0	75.5	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -1	OPERATING ENGINEER FOREMAN	37.75	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -1	Teamster G3 ED 8-24cy, Water>7	377.48	10		Sacramento to/from Franklin Boulevard	17
TOTAL FB-C&E Access-1						
FB-C&E Access -2	Laborer G2 General	11.82	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -2	Operator G5 Compactor w-blade	98.47	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -2	Operator G4 Dozer & Push Cat	98.47	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -2	OPERATING ENGINEER FOREMAN	98.47	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -2	Operator G2 Finish Blade	49.24	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -2	Teamster G2 Hwy ED 6-8cy, Water<7	49.24	10		Sacramento to/from Franklin Boulevard	17
TOTAL FB-C&E Access-2						
FB-C&E Access -3	Laborer G1 Pipe layers	34.44	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -3	Laborer Foreman	8.61	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -3	Operator G3 BH-Loader>3/4cy	17.22	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -3	Teamster G1 Hwy ED<6cy, Flatbed	12.92	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -3	Teamster G2 Hwy ED 6-8cy, Water<7	4.31	10		Sacramento to/from Franklin Boulevard	17
TOTAL FB-C&E Access-3						
FB-C&E Access -4	Laborer G1 Pipe layers	79.65	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -4	Laborer G1 Power Tamper	39.83	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -4	Operator G4 Loader <4.1cy	19.91	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -4	Teamster G2 Hwy ED 6-8cy, Water<7	39.83	10		Sacramento to/from Franklin Boulevard	17
TOTAL FB-C&E Access-4						
FB-C&E Access -5	Laborer G3 Flagman	174.22	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -5	Operator G7 Roller, Compactor	87.11	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -5	OPERATING ENGINEER FOREMAN	87.11	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -5	Operator G4 Grade Check	87.11	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -5	Operator G2 Finish Blade	87.11	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -5	Operator G8 Generator	17.42	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -5	Teamster G2 Hwy ED 6-8cy, Water<7	87.11	10		Sacramento to/from Franklin Boulevard	17
TOTAL FB-C&E Access-5						
FB-C&E Access -6	Laborer G2 General	245.37	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -6	Operator G5 Asphalt Roller	122.68	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -6	Operator G3 BH-Loader>3/4cy	61.34	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -6	OPERATING ENGINEER FOREMAN	61.34	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -6	Operator G4 Grade Check	61.34	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -6	Operator G5 Paver	61.34	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -6	Teamster G2 Hwy ED 6-8cy, Water<7	30.67	10		Sacramento to/from Franklin Boulevard	17
TOTAL FB-C&E Access-6						
FB-C&E Access -7	Iron Worker-Rigger	10	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -7	Laborer G2 General	40	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -7	Operator G4a Boom truck<15 ton	10	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -7	Operator G3 BH-Loader>3/4cy	10	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -7	OPERATING ENGINEER FOREMAN	10	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -7	Teamster G3 Boom Truck	10	10		Sacramento to/from Franklin Boulevard	17
TOTAL FB-C&E Access-7						
FB-C&E Access -8	Laborer G2 General	103.33	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -8	Operator G5 Asphalt Roller	51.66	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -8	Operator G3 BH-Loader>3/4cy	25.83	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -8	OPERATING ENGINEER FOREMAN	25.83	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -8	Operator G4 Grade Check	25.83	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -8	Operator G5 Paver	25.83	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -8	Teamster G2 Hwy ED 6-8cy, Water<7	12.92	10		Sacramento to/from Franklin Boulevard	17
TOTAL FB-C&E Access-8						
FB-C&E Access -9	Laborer G2 General	103.33	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -9	Operator G5 Asphalt Roller	51.66	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -9	Operator G3 BH-Loader>3/4cy	25.83	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -9	OPERATING ENGINEER FOREMAN	25.83	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -9	Operator G4 Grade Check	25.83	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -9	Operator G5 Paver	25.83	10		Sacramento to/from Franklin Boulevard	17
FB-C&E Access -9	Teamster G2 Hwy ED 6-8cy, Water<7	12.92	10		Sacramento to/from Franklin Boulevard	17
TOTAL FB-C&E Access-9						

Marine Inventory for Franklin Blvd - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Franklin Blvd - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

Helicopter Inventory for Franklin Blvd - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Franklin Blvd - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

[illegible]

Demolition Assumptions for Franklin Blvd - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Twin Cities Ring Levee - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Construct Ring Levee	TCC RL-C&E -1	2/28/2028	6/19/2028	96	5	10

Acres44.8

Offroad Equipment (Fossil Fuel) Inventory for Twin Cities Ring Levee - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
TCC RL-C&E -1	CAT 825H Compactor	Roller	279.39	96	3	Diesel	315	0.38		
TCC RL-C&E -1	CAT Grader 16H	Grader	1117.56	96	12	Diesel	285	0.41		
TCC RL-C&E -1	CAT D8 Dozer	Crawler Tractor	1117.56	96	12	Diesel	328	0.43		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Twin Cities Ring Levee - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
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NOT NEEDED

Vehicle Inventory for Twin Cities Ring Levee - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/Trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/mile) (if known)	Fuel (gal/day) (if known)
Vehicle Use on Paved Roads — and Not on Construction Site													
TCC RL-C&E -1	Truck, Water, 4 mgal, Hwy	Water from Sacramento	96	13	0.1	96	1	Franklin Boulevard to/from Sacramento	4	8	Diesel		
TCC RL-C&E -1	Truck, Flatbed, 30T, Hwy	Tractor, Roller, and Grader from and to Sacramento	2	3	0.6	6	3.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		

Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) — on the Construction Site

**Employees Required to Twin Cities Ring Levee - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B**

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip
TCC RL-C&E -1	Grade Setter / Checker	284.57	10		Sacramento to/from Franklin Boulevard	17
TCC RL-C&E -1	Compactor	284.57	10		Sacramento to/from Franklin Boulevard	17
TCC RL-C&E -1	Water Tanker Off road	284.57	10		Sacramento to/from Franklin Boulevard	17
TCC RL-C&E -1	Compactor Operator	284.57	10		Sacramento to/from Franklin Boulevard	17
TCC RL-C&E -1	Dozer Operator	569.14	10		Sacramento to/from Franklin Boulevard	17
TCC RL-C&E -1	Grader Operator	284.57	10		Sacramento to/from Franklin Boulevard	17
TCC RL-C&E -1	Scraper Operator	1138.28	10		Sacramento to/from Franklin Boulevard	17
TOTAL TCC RL-C&E -1						

Marine Inventory for Twin Cities Ring Levee - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Twin Cities Ring Levee - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Twin Cities Ring Levee - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Twin Cities Ring Levee - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
TCC RL-C&E -1	44.8	96	0.5			213428	2223				

**Demolition Assumptions for Twin Cities Ring Levee - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Twin Cities Rd - Central & Eastern Access Road
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	TC Rd-C&E Access -1	1/5/2026	1/7/2026	3	3	10
Culvert Pipe & Subdrain System	TC Rd-C&E Access -2	1/8/2026	1/19/2026	10	5	10
Road Base	TC Rd-C&E Access -3	1/20/2026	2/9/2026	15	5	10
Asphalt Paving & KRail and Signs	TC Rd-C&E Access -4	2/10/2026	2/16/2026	5	5	10
Intermediate Overlay	TC Rd-C&E Access -5	6/10/2030	6/12/2030	3	3	10
Final Overlay	TC Rd-C&E Access -6	9/30/2037	10/5/2037	5	5	10
Acres		3.9				

Offroad Equipment (Fossil Fuel) Inventory for Twin Cities Rd - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
TC Rd-C&E Access -1	CAT D6LGPDozer w winch	Crawler Tractor	29.67	3	10	Diesel Tier 4 or Hybrid Dies	179	0.43		
TC Rd-C&E Access -1	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	29.67	3	10	Diesel	384	0.38		
TC Rd-C&E Access -2	Air Compressor 375 cfm	Air Compressor	2.28	10	0	Diesel Tier 4	122	0.48		
TC Rd-C&E Access -2	CAT LOADER/HOE 416 E	Rubber Tired Loader	19.75	10	2	Diesel	78	0.36		
TC Rd-C&E Access -2	Compactor, Plate, 22"w x 35"	Plate Compactor	32.65	10	3	Diesel	8.5	0.43		
TC Rd-C&E Access -3	CAT 14 M	Grader	44.5	15	3	Diesel	274	0.41		
TC Rd-C&E Access -3	Water Pump, 4" Diesel	Pumps	44.5	15	3	Diesel	10	0.74		
TC Rd-C&E Access -3	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	44.5	15	3	Diesel	156	0.38		
TC Rd-C&E Access -4	CAT LOADER/HOE 416 E	Rubber Tired Loader	77.76	5	16	Diesel	78	0.36		
TC Rd-C&E Access -4	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	24.36	5	5	Diesel or Hybrid	224	0.42		
TC Rd-C&E Access -4	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	24.36	5	5	Diesel or Hybrid	137	0.38		
TC Rd-C&E Access -4	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	24.36	5	5	Diesel or Hybrid	133	0.38		
TC Rd-C&E Access -4	Boom Truck, 12.5 Tn Boom	Crane	53.4	5	11	Diesel or Hybrid	100	0.29		
TC Rd-C&E Access -5	CAT LOADER/HOE 416 E	Rubber Tired Loader	21.65	3	7	Diesel	78	0.36		
TC Rd-C&E Access -5	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	21.65	3	7	Diesel or Hybrid	224	0.42		
TC Rd-C&E Access -5	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	21.65	3	7	Diesel or Hybrid	137	0.38		
TC Rd-C&E Access -5	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	21.65	3	7	Diesel or Hybrid	133	0.38		
TC Rd-C&E Access -6	CAT LOADER/HOE 416 E	Rubber Tired Loader	21.65	5	4	Diesel	78	0.36		
TC Rd-C&E Access -6	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	21.65	5	4	Diesel or Hybrid	224	0.42		
TC Rd-C&E Access -6	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	21.65	5	4	Diesel or Hybrid	137	0.38		
TC Rd-C&E Access -6	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	21.65	5	4	Diesel or Hybrid	133	0.38		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Twin Cities Rd - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
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NOT NEEDED

Vehicle Inventory for Twin Cities Rd - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/Trip	# of Vehicles/Trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/mi) (if known)	Fuel (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site													
TC Rd-C&E Access -1	Pickup, 1/2T, 2wd	Materials from Sacramento	3	15	0.6	26	9	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
TC Rd-C&E Access -1	Truck, Water, 4 mgal, Hwy	Water from Sacramento	3	2	0.1	14	5	Franklin Boulevard to/from Sacramento	4	8	Diesel		
TC Rd-C&E Access -1	Truck, End Dump, 10-13cy, Hwy	Materials from Sacramento	3	89	0.6	157	52	Franklin Boulevard to/from Sacramento	17	34	Diesel		
TC Rd-C&E Access -1	Truck, Flatbed, 10T, Hwy	Tractor and Excavator to and from Sacramento	2	2	0.6	4	2.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
TC Rd-C&E Access -1	Truck/ End Dump/ 16-20cy/ Hwy	Gravel from Sacramento	3	1	0.6	1	0.3	Franklin Boulevard to/from Sacramento	17	34	Diesel		
TC Rd-C&E Access -2	Truck, End Dump, 10-13cy, Hwy	Materials from Sacramento	10	30	0.6	34	5	Franklin Boulevard to/from Sacramento	17	34	Diesel		
TC Rd-C&E Access -2	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	10	2	0.6	4	0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
TC Rd-C&E Access -2	Truck, Flatbed, 10T, Hwy	Loader to Sacramento	1	1	0.6	1	1.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
TC Rd-C&E Access -2	Truck, Flatbed, 10T, Hwy	Compactor to and from Sacramento	2	1	0.6	2	1.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
TC Rd-C&E Access -2	Truck, Water, 4 mgal, Hwy	Water from Sacramento	10	7	0.1	50	5	Franklin Boulevard to/from Sacramento	4	8	Diesel		
TC Rd-C&E Access -2	Truck/ End Dump/ 16-20cy/ Hwy	Gravel from Sacramento	10	3	0.6	5	0.5	Franklin Boulevard to/from Sacramento	17	34	Diesel		
TC Rd-C&E Access -3	Pickup, 3/4T, 4wd	Materials from Sacramento	15	45	0.6	79	5	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
TC Rd-C&E Access -3	Truck, Flatbed, 10T, Hwy	Grader and Roller to and from Sacramento	2	2	0.6	4	2.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
TC Rd-C&E Access -3	Truck, Water, 4 mgal, Hwy	Water from Sacramento	15	10	0.1	75	5	Franklin Boulevard to/from Sacramento	4	8	Diesel		
TC Rd-C&E Access -3	Truck/ End Dump/ 16-20cy/ Hwy	Gravel from Sacramento	15	230	0.6	405	27.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
TC Rd-C&E Access -4	Truck, Flatbed, 10T, Hwy	Loader to Sacramento	1	1	0.6	1	1.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
TC Rd-C&E Access -4	Truck, Flatbed, 10T, Hwy	Paver, 2 Rollers, and Crane to and from Sacramento	2	5	0.6	8	4.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
TC Rd-C&E Access -4	Truck, Water, 4 mgal, Hwy	Water from Sacramento	5	1	0.1	5	1	Franklin Boulevard to/from Sacramento	4	8	Diesel		
TC Rd-C&E Access -4	Truck & Bottom Dump/ 22cy/ 30T	Asphalt from Sacramento	5	73	0.6	129	26	Franklin Boulevard to/from Sacramento	17	34	Diesel Tier 4		
TC Rd-C&E Access -5	Truck, Flatbed, 10T, Hwy	Paver and two Rollers to and from Sacramento	2	3	0.6	6	3.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
TC Rd-C&E Access -5	Truck & Bottom Dump/ 22cy/ 30T	Asphalt from Sacramento	3	65	0.6	115	38	Franklin Boulevard to/from Sacramento	17	34	Diesel Tier 4		
TC Rd-C&E Access -6	Truck, Flatbed, 10T, Hwy	Paver and two Rollers to and from Sacramento	2	3	0.6	6	1.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
TC Rd-C&E Access -6	Truck & Bottom Dump/ 22cy/ 30T	Asphalt from Sacramento	5	65	0.6	115	23	Franklin Boulevard to/from Sacramento	17	34	Diesel Tier 4		
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site													
TC Rd-C&E Access -1	CAT 730 30T, Articulated End Dump	Dumpers	3	59.34	not applicable	not applicable	not applicable	on site: assume 5 miles/hour	297		Diesel Tier 4 or Hybrid Diesel		

Employees Required to Twin Cities Rd - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Employee Type	Hours	# Work Hours/Day	Trip Location (to/from)	Commute Miles/ One-way Trip
TC Rd-C&E Access -1	Operator G4 Dozer & Push Cat	29.67	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -1	Operator G2 Excavator 3.5 to 7.0 cy	29.67	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -1	OPERATING ENGINEER FOREMAN	14.84	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -1	Teamster G2 Hwy ED 6-8cy, Water<7mgal	89.01	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -1	Teamster G3 ED 8-24cy, Water>7mgal	59.34	10	Sacramento to/from Twin Cities Road	17
TOTAL TC Rd-C&E Access-1					
TC Rd-C&E Access -3	Laborer G1 Pipe layers	69.85	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -2	Laborer Foreman	2.28	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -2	Operator G3 BH-Loader>3/4cy	4.56	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -2	Teamster G1 Hwy ED<6cy, Flatbed	3.42	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -2	Teamster G2 Hwy ED 6-8cy, Water<7mgal	1.14	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -2	Laborer G1 Power Tamper	30.37	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -2	Operator G4 Loader <4.1cy	15.19	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -2	Teamster G2 Hwy ED 6-8cy, Water<7mgal	30.37	10	Sacramento to/from Twin Cities Road	17
TOTAL TC Rd-C&E Access-2					
TC Rd-C&E Access -3	Laborer G3 Flagman	89	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -3	Operator G7 Roller, Compactor	44.5	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -3	OPERATING ENGINEER FOREMAN	44.5	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -3	Operator G4 Grade Check	44.5	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -3	Operator G2 Finish Blade	44.5	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -3	Operator G8 Generator	8.9	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -3	Teamster G2 Hwy ED 6-8cy, Water<7mgal	44.5	10	Sacramento to/from Twin Cities Road	17
TOTAL TC Rd-C&E Access-3					
TC Rd-C&E Access -4	Laborer G2 General	150.83	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -4	Operator G5 Asphalt Roller	48.72	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -4	Operator G3 BH-Loader>3/4cy	24.36	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -4	OPERATING ENGINEER FOREMAN	24.36	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -4	Operator G4 Grade Check	24.36	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -4	Operator G5 Paver	24.36	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -4	Teamster G2 Hwy ED 6-8cy, Water<7mgal	12.18	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -4	Iron Worker-Rigger	53.4	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -4	Operator G4a Boom truck<15 ton	53.4	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -4	Operator G3 BH-Loader>3/4cy	53.4	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -4	OPERATING ENGINEER FOREMAN	53.4	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -4	Teamster G3 Boom Truck	53.4	10	Sacramento to/from Twin Cities Road	17
TOTAL TC Rd-C&E Access-4					
TC Rd-C&E Access -5	Laborer G2 General	86.61	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -5	Operator G5 Asphalt Roller	43.31	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -5	Operator G3 BH-Loader>3/4cy	21.65	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -5	OPERATING ENGINEER FOREMAN	21.65	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -5	Operator G4 Grade Check	21.65	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -5	Operator G5 Paver	21.65	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -5	Teamster G2 Hwy ED 6-8cy, Water<7mgal	10.83	10	Sacramento to/from Twin Cities Road	17
TOTAL TC Rd-C&E Access-5					
TC Rd-C&E Access -6	Laborer G2 General	86.61	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -6	Operator G5 Asphalt Roller	43.31	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -6	Operator G3 BH-Loader>3/4cy	21.65	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -6	OPERATING ENGINEER FOREMAN	21.65	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -6	Operator G4 Grade Check	21.65	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -6	Operator G5 Paver	21.65	10	Sacramento to/from Twin Cities Road	17
TC Rd-C&E Access -6	Teamster G2 Hwy ED 6-8cy, Water<7mgal	10.83	10	Sacramento to/from Twin Cities Road	17
TOTAL TC Rd-C&E Access-6					

Marine Inventory for Twin Cities Rd - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Twin Cities Rd - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

Helicopter Inventory for Twin Cities Rd - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Twin Cities Rd - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

[illegible]

Demolition Assumptions for Twin Cities Rd - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

**Construction Schedule for Twin Cities Complex - Central
Options 1A, 1B**

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Mobilize, Excavate, & Mobilize	TCC-Central - 1	2/2/2026	6/5/2026	90	5	10
Embankment	TCC-Central - 2	3/12/2026	4/21/2026	29	5	10
Subdrain	TCC-Central - 3	4/22/2026	6/9/2026	34	5	10
Management, Engineering, & Field Labor - Reach 2	TCC-Central - 4	3/17/2027	4/9/2037	1551	4	10
Clear and Grub	TCC-Central - 5	5/12/2027	7/12/2027	44	5	10
Excavation, Grading, & Compaction - Reach 2	TCC-Central - 6	7/13/2027	4/24/2028	204	5	10
Raise Shaft Pad for Reach 2	TCC-Central - 7	9/7/2027	4/3/2028	149	5	10
Set Strips, & Concrete for Reach 2	TCC-Central - 8	8/16/2027	11/12/2027	65	5	10
Place Guide Walls Concrete for Reach 2	TCC-Central - 9	4/3/2028	6/20/2028	57	5	10
Slurry Wall, Place Concrete & Rebar, Slurry Wall, Remove Guide Wall, & add Top Beam for Reach 2	TCC-Central - 10	4/27/2028	8/17/2028	81	5	10
Place Guide Walls Concrete for Reach 1	TCC-Central - 11	8/8/2028	8/30/2028	17	5	10
Slurry Wall, Place Concrete & Rebar, Slurry Wall, Remove Guide Wall, & add Top Beam for Reach 1	TCC-Central - 12	8/29/2028	1/3/2029	92	5	10
Excavate Shaft for Reach 2	TCC-Central - 13	1/4/2029	4/4/2029	65	5	10
Management, Engineering, & Field Labor - Reach 1	TCC-Central - 14	3/21/2029	3/14/2035	1916	6	10
Shaft Setup for Reach 1	TCC-Central - 15	3/21/2029	4/18/2029	19	5	10
Excavate Shaft for Reach 1	TCC-Central - 16	4/4/2029	7/3/2029	65	5	10
Place Tremie Seal Rebar, Cooling Pipes, & Seal for Reaches 1 & 2	TCC-Central - 17	6/19/2029	7/31/2029	43	7	24
Dewater Shaft for Reaches 1 & 2	TCC-Central - 18	7/17/2029	8/7/2029	21	7	24
Place TBM Cradle Rebar and Cradle Pour for Reaches 1 & 2	TCC-Central - 19	7/24/2029	8/20/2029	20	5	10
Breakout Slurry Wall for TBM for Reaches 1 & 2	TCC-Central - 20	8/6/2029	9/17/2029	41	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner Reaches 1 & 2	TCC-Central - 21	9/3/2029	1/9/2030	93	5	10
Erect Gantry Crane for Reaches 1 & 2	TCC-Central - 22	11/16/2029	12/11/2029	19	5	10
TBM Assembly including Shaft Utilities for Reach 2	TCC-Central - 23	12/10/2029	6/6/2030	105	5	10
Tunneling Operations including Equipment Delivery for Reach 2	TCC-Central - 24	6/6/2030	12/4/2036	2064	6	20
TBM Assembly including Shaft Utilities for Reach 1	TCC-Central - 25	7/17/2030	12/31/2030	120	5	10
Tunneling Operations including Equipment Delivery for Reach 1	TCC-Central - 26	11/6/2030	12/28/2034	1297	6	20
Remove TBM and Tunnel Equipment for Reach 1	TCC-Central - 27	12/29/2034	2/22/2035	40	5	10
Remove TBM and Tunnel Equipment for Reach 2	TCC-Central - 28	2/4/2037	4/9/2037	46	5	10
Site Restoration	TCC-Central - 29	3/26/2037	9/30/2037	135	5	10

Total Site Acres

507

**Offroad Equipment (Fossil Fuel) Inventory for Twin Cities Complex - Central
Options 1A, 1B**

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
TCC-Central - 1	Air Compressor 185 CFM	Air Compressor	298.66	90	3.3	Diesel Tier 4	49	0.48		
TCC-Central - 1	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	149.34	90	1.7	Diesel or Hybrid	75	0.31		
TCC-Central - 1	Boom Truck, 12.5 Tn Boom	Crane	149.34	90	1.7	Diesel or Hybrid	100	0.29		
TCC-Central - 1	CAT D6LGPDozer w winch	Crawler Tractor	364.43	90	4.0	Diesel or Hybrid	179	0.43		
TCC-Central - 1	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	182.21	90	2.0	Diesel	384	0.38		
TCC-Central - 1	Hydraulic 9 Ton Crane	Crane	400	90	4.4	Diesel	85	0.29		
TCC-Central - 1	Hydraulic 40 Ton Crane	Crane	400	90	4.4	Diesel	300	0.29		
TCC-Central - 1	CAT Forklift 5,500 LB	Aerial Lift	400	90	4.4	Diesel	63	0.31		
TCC-Central - 2	CAT D6LGPDozer w winch	Crawler Tractor	232.83	29	8.0	Diesel or Hybrid	179	0.43		
TCC-Central - 2	Disk, Towed	Off-Highway Tractor	232.83	29	8.0	Diesel	140	0.44		
TCC-Central - 2	CAT 14 M	Grader	116.41	29	4.0	Diesel	274	0.41		
TCC-Central - 2	Water Pump 4" Electric	Pumps	27.94	29	1.0	Diesel	10	0.74		
TCC-Central - 2	CAT 825, Roller	Rollers	232.83	29	8.0	Diesel	315	0.38		
TCC-Central - 3	CAT LOADER/HOE 416 E	Rubber Tired Loader	87.31	34	2.6	Diesel	78	0.36		
TCC-Central - 3	Compactor, Trench Roller, Vib 32"w	Roller	174.63	34	5.1	Diesel	20	0.38		
TCC-Central - 5	CAT D8 Dozer	Crawler Tractor	990.0	44	22.5	Diesel Tier 4 or Hybrid Diesel	179	0.43		
TCC-Central - 5	Grader 16H - 16' Blade	Grader	990.0	44	22.5	Diesel	285	0.41		
TCC-Central - 5	623G Scraper Elevate 21 CY	Scaper	1980.0	44	45.0	Diesel	359	0.48		
TCC-Central - 6	CAT 825H Compactor	Rollers	2400	204	10.2	Diesel	145	0.38		
TCC-Central - 6	CAT CB-634D Vibratory 84"	Rollers	2400	204	10.2	Diesel	315	0.38		
TCC-Central - 6	CAT Grader 16H	Grader	2167.8	204	10.6	Diesel	285	0.41		
TCC-Central - 6	CAT 980 Loader 7.5 CY	Grader	2400	204	10.2	Diesel	285	0.41		
TCC-Central - 6	CAT D8 Dozer	Crawler Tractor	4325.45	204	21.2	Diesel Tier 4 or Hybrid Diesel	179	0.43		
TCC-Central - 6	623G Scraper Elevate 21 CY	Scaper	8170.9	204	40.1	Diesel	359	0.48		
TCC-Central - 7	CAT CB-634D Vibratory 84"	Rollers	1643.18	149	11.0	Diesel	315	0.38		
TCC-Central - 7	CAT Grader 16H	Grader	1643.18	149	11.0	Diesel	285	0.41		
TCC-Central - 7	CAT D8 Dozer	Crawler Tractor	1643.18	149	11.0	Diesel Tier 4 or Hybrid Diesel	179	0.43		
TCC-Central - 8	CAT CB-634D Vibratory 84"	Rollers	3852.63	65	59.3	Diesel	145	0.38		
TCC-Central - 8	CAT Grader 16H	Graders	3852.63	65	59.3	Diesel	285	0.41		
TCC-Central - 8	CAT D8 Dozer	Crawler Tractor	3852.63	65	59.3	Diesel	328	0.43		
TCC-Central - 8	Hydraulic 9 Ton Crane	Crane	453.22	65	7.0	Diesel	85	0.29		
TCC-Central - 9	CAT Hyd Excavator 1CY	Excavator	9.6	57	0.2	Diesel	138	0.38		
TCC-Central - 9	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	9.6	57	0.2	Diesel or Hybrid	130	0.36		
TCC-Central - 10	Manitowoc 777 200 Ton Crane	Crane	1016	81	12.5	Diesel	760	0.29		
TCC-Central - 10	1600 CFM Compressor Diesel	Air Compressor	508	81	6.3	Diesel Tier 4	540	0.48		
TCC-Central - 10	Hydraulic 55 Ton Crane	Crane	1016	81	12.5	Diesel	350	0.29		
TCC-Central - 10	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	508	81	6.3	Diesel or Hybrid	130	0.36		
TCC-Central - 10	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	508	81	6.3	Diesel	8	0.56		
TCC-Central - 10	Slurry Wall Techniwell	Pumps	508	81	6.3	Diesel	500	0.74		
TCC-Central - 10	CAT Hyd Excavator 1CY	Excavator	380	81	4.7	Diesel	138	0.38		
TCC-Central - 10	Hydraulic Excavator to 3.5 tons = Kobelco SK485LC' 2.75cy' 345 hp Excavator	Excavator	380	81	4.7	Diesel	345	0.38		
TCC-Central - 10	250 CFM Compressor Diesel	Air Compressor	14	81	0.2	Diesel Tier 3	75	0.48		
TCC-Central - 12	CAT Hyd Excavator 1CY	Excavator	389.6	92	4.2	Diesel	138	0.38		
TCC-Central - 12	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	897.6	92	9.8	Diesel or Hybrid	130	0.36		
TCC-Central - 12	250 CFM Compressor Diesel	Air Compressor	14	92	0.2	Diesel Tier 3	75	0.48		
TCC-Central - 12	Hydraulic Excavator to 3.5 tons = Kobelco SK485LC' 2.75cy' 345 hp Excavator	Excavator	380	92	4.1	Diesel	345	0.38		
TCC-Central - 12	1600 CFM Compressor Diesel	Air Compressor	508	92	5.5	Diesel Tier 4	540	0.48		
TCC-Central - 12	Hydraulic 55 Ton Crane	Crane	1016	92	11.0	Diesel	350	0.29		
TCC-Central - 12	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	508	92	5.5	Diesel	8	0.56		
TCC-Central - 12	Slurry Wall Techniwell	Pumps	508	92	5.5	Diesel	500	0.74		
TCC-Central - 12	Manitowoc 777 200 Ton Crane	Crane	1016	92	11.0	Diesel	760	0.29		
TCC-Central - 13	Manitowoc 777 200 Ton Crane	Crane	688	65	10.6	Diesel	760	0.29		
TCC-Central - 15	Hydraulic 40 Ton Crane	Crane	400	19	21.1	Diesel	300	0.29		
TCC-Central - 15	Hydraulic 25 Ton Crane	Crane	160	19	8.4	Diesel	100	0.29		
TCC-Central - 15	Hydraulic 9 Ton Crane	Crane	400	19	21.1	Diesel	85	0.29		
TCC-Central - 15	CAT Forklift 5,500 LB	Aerial Lift	400	19	21.1	Diesel	63	0.31		
TCC-Central - 15	Heavy Duty Mechanic Welder	Welder	160	19	8.4	Diesel	400	0.45		
TCC-Central - 15	1600 CFM Compressor Diesel	Air Compressor	160	19	8.4	Diesel Tier 4	540	0.48		
TCC-Central - 15	Truck Crane Lattice Boom 90T	Crane	160	19	8.4	Diesel Tier 4	300	0.29		
TCC-Central - 15	Telescope RT Forklift 5500	Forklift	160	19	8.4	Diesel	63	0.2		
TCC-Central - 16	Manitowoc 777 200 Ton Crane	Crane	688	65	10.6	Diesel	760	0.29		
TCC-Central - 17	Manitowoc 777 200 Ton Crane	Crane	466	43	10.8	Diesel	760	0.29		
TCC-Central - 17	Hydraulic 40 Ton Crane	Crane	160	43	3.7	Diesel	300	0.29		
TCC-Central - 17	Hydraulic 25 Ton Crane	Crane	397.3	43	9.2	Diesel	100	0.29		
TCC-Central - 18	Hydraulic 15 Ton Crane	Crane	200	21	9.5	Diesel	85	0.29		
TCC-Central - 18	Dewater Pump 6"	Pump	800	21	38.1	Diesel	50	0.74		
TCC-Central - 18	150 KW Diesel Generator	Generator	200	21	9.5	Diesel Tier 4	183	0.74		
TCC-Central - 19	Manitowoc 777 200 Ton Crane	Crane	184.6	20	9.2	Diesel	760	0.29		
TCC-Central - 19	Trailer Conc Pump 100 CY HR	Pump	21.3	20	1.1	Diesel	200	0.74		
TCC-Central - 19	250 CFM Compressor Diesel	Air Compressor	42.6	20	2.1	Diesel Tier 3	75	0.48		
TCC-Central - 20	250 CFM Compressor Diesel	Air Compressor	544.44	41	13.3	Diesel Tier 3	75	0.48		
TCC-Central - 20	Manitowoc 777 200 Ton Crane	Crane	544.44	41	13.3	Diesel	760	0.29		
TCC-Central - 21	250 CFM Compressor Diesel	Air Compressor	1109.96	93	11.9	Diesel Tier 3	75	0.48		
TCC-Central - 21	Manitowoc 777 200 Ton Crane	Crane	1306.32	93	14.0	Diesel	760	0.29		
TCC-Central - 21	Trailer Conc Pump 100 CY HR	Pump	394.98	93	4.2	Diesel	200	0.74		

TCC-Central - 22	1600 CFM Compressor Diesel	Air Compressor	160	19	8.4	Diesel Tier 4	540	0.48
TCC-Central - 22	Hydraulic 25 Ton Crane	Crane	160	19	8.4	Diesel	100	0.29
TCC-Central - 22	Truck Crane Lattice Boom 90T	Crane	160	19	8.4	Diesel Tier 4	300	0.29
TCC-Central - 22	Telescope RT Forklift 5500	Forklift	160	19	8.4	Diesel	63	0.2
TCC-Central - 22	Heavy Duty Mechanic Welder	Welder	160	19	8.4	Diesel	400	0.45
TCC-Central - 23	250 CFM Compressor Diesel	Air Compressor	2300	105	21.9	Diesel Tier 3	75	0.48
TCC-Central - 23	Hydraulic 40 Ton Crane	Crane	3174	105	30.2	Diesel	300	0.29
TCC-Central - 23	Hydraulic 9 Ton Crane	Crane	2274	105	21.7	Diesel	85	0.29
TCC-Central - 23	CAT Forklift 5,500 LB	Aerial Lift	2274	105	21.7	Diesel	63	0.31
TCC-Central - 24	250 CFM Compressor Diesel	Air Compressor	36298	2064	17.6	Diesel Tier 3	75	0.48
TCC-Central - 24	Hydraulic 40 Ton Crane	Crane	14888	2064	7.2	Diesel	300	0.29
TCC-Central - 24	Hydraulic 9 Ton Crane	Crane	14888	2064	7.2	Diesel	85	0.29
TCC-Central - 24	CAT Forklift 5,500 LB	Aerial Lift	14888	2064	7.2	Diesel	63	0.31
TCC-Central - 24	CAT D8 Dozer	Crawler Tractor	18410	2064	8.9	Diesel Tier 4 or Hybrid Diesel	179	0.43
TCC-Central - 24	CAT 980 Loader 7.5 CY	Grader	18410	2064	8.9	Diesel	285	0.41
TCC-Central - 25	250 CFM Compressor Diesel	Air Compressor	2300	120	19.2	Diesel Tier 3	75	0.48
TCC-Central - 25	Hydraulic 40 Ton Crane	Crane	900	120	7.5	Diesel	300	0.29
TCC-Central - 26	250 CFM Compressor Diesel	Air Compressor	19767.38	1297	15.2	Diesel Tier 3	75	0.48
TCC-Central - 26	Hydraulic 40 Ton Crane	Crane	10538.78	1297	8.1	Diesel	300	0.29
TCC-Central - 26	Hydraulic 9 Ton Crane	Crane	10538.78	1297	8.1	Diesel	85	0.29
TCC-Central - 26	CAT Forklift 5,500 LB	Aerial Lift	10538.78	1297	8.1	Diesel	63	0.31
TCC-Central - 26	CAT D8 Dozer	Crawler Tractor	10340	1297	8.0	Diesel Tier 4 or Hybrid Diesel	179	0.43
TCC-Central - 26	CAT 980 Loader 7.5 CY	Grader	10340	1297	8.0	Diesel	285	0.41
TCC-Central - 26	Grout Pump	Cement & Mortar Mix	974.76	1297	0.8	Diesel	500	0.56
TCC-Central - 26	Grout Mixer	Cement & Mortar Mix	974.76	1297	0.8	Diesel	70	0.56
TCC-Central - 27	Hydraulic 55 Ton Crane	Crane	715	40	17.9	Diesel	350	0.29
TCC-Central - 27	Manitowoc 777 200 Ton Crane	Crane	715	40	17.9	Diesel	760	0.29
TCC-Central - 27	Telescope RT Forklift 5500	Forklift	690	40	17.3	Diesel	63	0.2
TCC-Central - 27	1600 CFM Compressor Diesel	Air Compressor	100	40	2.5	Diesel Tier 4	540	0.48
TCC-Central - 27	Hydraulic 25 Ton Crane	Crane	100	40	2.5	Diesel	100	0.29
TCC-Central - 27	Truck Crane Lattice Boom 90T	Crane	100	40	2.5	Diesel Tier 4	300	0.29
TCC-Central - 27	Telescope RT Forklift 5500	Forklift	100	40	2.5	Diesel	63	0.2
TCC-Central - 27	Heavy Duty Mechanic Welder	Welder	100	40	2.5	Diesel	400	0.45
TCC-Central - 27	Hydraulic 40 Ton Crane	Crane	80	40	2.0	Diesel	300	0.29
TCC-Central - 27	Hydraulic 9 Ton Crane	Crane	80	40	2.0	Diesel	85	0.29
TCC-Central - 27	CAT Forklift 5,500 LB	Aerial Lift	80	40	2.0	Diesel	63	0.31
TCC-Central - 28	Hydraulic 55 Ton Crane	Crane	1235	46	26.8	Diesel	350	0.29
TCC-Central - 28	Manitowoc 777 200 Ton Crane	Crane	715	46	15.5	Diesel	760	0.29
TCC-Central - 28	Telescope RT Forklift 5500	Forklift	990	46	21.5	Diesel	63	0.2
TCC-Central - 28	1600 CFM Compressor Diesel	Air Compressor	100	46	2.2	Diesel Tier 4	540	0.48
TCC-Central - 28	Hydraulic 25 Ton Crane	Crane	100	46	2.2	Diesel	100	0.29
TCC-Central - 28	Truck Crane Lattice Boom 90T	Crane	100	46	2.2	Diesel Tier 4	300	0.29
TCC-Central - 28	Heavy Duty Mechanic Welder	Welder	100	46	2.2	Diesel	400	0.45
TCC-Central - 29	CAT D8Rii, Dozer w winch	Crawler Tractor	2150	135	15.9	Diesel	310	0.43
TCC-Central - 29	CAT 12 M	Grader	700	135	5.2	Diesel	173	0.41
TCC-Central - 29	CAT 815, Roller	Rollers	500	135	3.7	Diesel	170	0.38
TCC-Central - 29	CAT 621G Scraper, Conventional	Scraper	500	135	3.7	Diesel	330	0.48
TCC-Central - 29	Cat 6 mgal w/ CAT 725 Tractor, 320hp	Crawler Tractor	4510	135	33.4	Diesel	320	0.43
TCC-Central - 29	CAT Hyd Excavator 1CY	Excavator	207.9	135	1.5	Diesel	138	0.38
TCC-Central - 29	Manitowoc 777 200 Ton Crane	Crane	207.9	135	1.5	Diesel	760	0.29
TCC-Central - 29	CAT 966 Loader 5.5 CY	Rubber Tired Loader	207.9	135	1.5	Diesel	286	0.36
TCC-Central - 29	CAT 390 MASS EXC	Excavator	700	135	5.2	Diesel	534	0.38
TCC-Central - 29	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	2100	135	15.6	Diesel	345	0.38
TCC-Central - 29	Farm Tractor, All Wheel Drive, 285 HP	Off-Highway Tractor	810	135	6.0	Diesel	80	0.44
TCC-Central - 29	CAT 966 GII Wheel Loader	Rubber Tired Loader	100	135	0.7	Diesel	170	0.36
TCC-Central - 29	CAT D9R, Dozer w ripper	Crawler Tractor	1560	135	11.6	Diesel	410	0.43
TCC-Central - 29	CAT 631G Scraper, Conventional	Scraper	1650	135	12.2	Diesel	515	0.48
TCC-Central - 29	Disk, Towed	Off-Highway Tractor	280	135	2.1	Diesel	140	0.44
TCC-Central - 29	Hydro Mulcher, 18 HP	Pump	100	135	0.7	Diesel	25	0.29

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

**Offroad Equipment (Electric) Inventory for Twin Cities Complex - Central
Options 1A, 1B**

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
TCC-Central - 1	400A, Electric Welder	298.66	90	0.25	1
TCC-Central -2	400A, Electric Welder	931.3	2627	0.25	0
TCC-Central -2	Light Plant, 4 lite, 1000w, Tower/Mast	29			
TCC-Central - 23	Gantry Crane	1150	105	0.25	3
TCC-Central - 23	Axial Fan 114,000 CFM	5292	105	50	2,520
TCC-Central - 24	Gantry Crane	66509.5	2064	0.25	8
TCC-Central - 24	Axial Fan 114,000 CFM	357804	2064	50	8,668
TCC-Central - 25	Gantry Crane	2150	120	0.25	4
TCC-Central - 25	Axial Fan 114,000 CFM	650	120	50	271
TCC-Central - 26	Gantry Crane	56744	1297	0.25	11
TCC-Central - 26	Axial Fan 114,000 CFM	198284	1297	50	7,644
TCC-Central - 27	Gantry Crane	690	40	0.25	4
TCC-Central - 28	Gantry Crane	890	46	0.25	5

Electricity for TBM Operations included in the Summary Workbook

Vehicle Inventory for Twin Cities Complex - Central
Options 1A, 1B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. office)	# day	Vehicle Hours	Hours/trip	# of Vehicles Trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
TCC-Central - 1	Pickup, 1/2T, 2wd	Materials from Sacramento	90	389.8	0.6	688	7.6	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 1	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	90	400.0	0.6	706	7.8	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 1	Truck, Flatbed, 10T, Hwy	Crane, Tractor and Aerial Lift from Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 1	Truck, Flatbed, 10T, Hwy	Excavator, Two Cranes, Aerial Lift from and to Sacramento	2	2.3	0.6	4	2.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 2	Pickup, 1/2T, 2wd	Materials from Sacramento	29	232.8	0.6	411	14.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 2	Truck, Flatbed, 10T, Hwy	Roller from Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 2	Truck, Flatbed, 10T, Hwy	Tractor to Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 2	Truck, Flatbed, 10T, Hwy	Grader from and to Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 3	Truck, Flatbed, 10T, Hwy	Loader from and to Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 5	Truck, Flatbed, 10T, Hwy	Dozer, Scraper, and Grader from Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 6	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	204	133.2	0.6	235	1.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 6	Truck, Flatbed, 10T, Hwy	Roller from Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 6	Truck, Flatbed, 10T, Hwy	Roller, Grader, and Scraper to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 6	Truck, Flatbed, 10T, Hwy	Loader from and to Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 7	Highway Dump Truck 18 CY	Materials from Sacramento	149	96.3	0.6	170	1.1	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 7	Truck, Flatbed, 10T, Hwy	Grader from Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 7	Truck, Flatbed, 10T, Hwy	Two Cranes from and to Sacramento	2	2.3	0.6	4	2.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 8	Truck Flatbed 4 T Highway	Rebar from Sacramento	65	8.5	0.6	15	0.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 8	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	65	39.7	0.0	1190	18.3	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 8	Truck, Flatbed, 10T, Hwy	Dozer, Grader, and Roller to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 8	Truck, Flatbed, 10T, Hwy	Crane from and to Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 9	Truck, Flatbed, 10T, Hwy	Excavator and Loader from Sacramento	1	1.1	0.6	2	2.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 9	Truck Flatbed 4 T Highway	Rebar from Sacramento	57	33.4	0.6	59	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 9	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	57	45.8	0.0	1374	24.1	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 9	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	57	96.3	0.6	170	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 10	Truck, Flatbed, 10T, Hwy	Excavator and Two Cranes from Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 11	Truck Flatbed 4 T Highway	Rebar from Sacramento	17	0.6	0.6	1	0.1	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 11	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	17	1.8	0.0	54	3.2	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 12	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	92	38.3	0.0	1150	12.5	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 12	Truck Flatbed 4 T Highway	Rebar from Sacramento	92	34.0	0.6	60	0.7	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 12	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	92	96.3	0.6	170	1.8	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 12	Truck, Flatbed, 10T, Hwy	Two Excavators, Loader, and Crane from Sacramento	1	2.3	0.6	4	4.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 15	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	19	96.3	0.6	170	8.9	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 15	Truck, Flatbed, 10T, Hwy	Five Cranes and Aerial Lift from Sacramento	1	3.4	0.6	6	6.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 17	Truck Flatbed 4 T Highway	Rebar from Sacramento	43	17.0	0.6	30	0.7	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 17	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	43	83.7	0.0	2512	58.4	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 18	Truck, Flatbed, 10T, Hwy	Crane from and to Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 19	Truck Flatbed 4 T Highway	Rebar from Sacramento	20	2.3	0.6	4	0.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 19	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	20	6.0	0.0	180	9.0	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 20	Truck Flatbed 4 T Highway	Rebar from Sacramento	41	5.1	0.6	9	0.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 21	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	93	29.5	0.0	884	9.5	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 23	Truck, Flatbed, 10T, Hwy	Pre-Cast Segments from Sacramento	105	275.4	0.6	486	4.6	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 24	Truck Flatbed 4 T Highway	Materials from Sacramento	2064	147.3	0.6	260	0.1	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 24	Truck Flatbed 4 T Highway	Materials from Sacramento	2064	254.4	0.6	449	0.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 24	Truck, Flatbed, 10T, Hwy	Pre-Cast Segments from Sacramento	2064	11252.9	0.6	19858	9.6	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 25	Truck, Flatbed, 10T, Hwy	Pre-Cast Segments from Sacramento	120	69.1	0.6	122	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 26	Truck, Flatbed, 10T, Hwy	Dozer Tractor and Loader Grader to Sacramento	1	1.1	0.6	2	2.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 26	Truck, Flatbed, 10T, Hwy	Pre-Cast Segments from Sacramento	1297	6343.8	0.6	11195	8.6	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 27	Truck, Flatbed, 10T, Hwy	Three Cranes to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 28	Truck, Flatbed, 10T, Hwy	Remove TBM to Sacramento	46	180.0	0.6	318	6.9	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 28	Truck, Flatbed, 10T, Hwy	Two Aerial Lifts and Crane to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 29	Truck, Flatbed, 10T, Hwy	Scraper, Four Tractors, Grader, Roller, Scraper, Loader, and Excavator to/from Sacramento	2	5.7	0.6	10	5.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 29	Truck, Flatbed, 10T, Hwy	Crane, Two Excavators, to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	

TCC Central - 29	Truck Flatbed 4 T Highway	Materials from Sacramento	135	100.9	0.6	178	1.3	Twin Cities Complex to/from Sacramento	17	34	Diesel
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Vehicle Use on Unseaved/Dirt Surface (no access roads at eark and ride lots) --- on the Construction Site									Miles On-Site	
TCC Central - 1	Articulated Rear Dump 22 CY/CAT 730	Dumpeer to move fill on-site	90	1093.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	5466	Diesel or Hybrid
TCC Central - 2	Cat 30meal w/Cat 770 511HP	Dumpeers	29	116.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	582	Diesel
TCC Central - 3	Truck End Dump, 10-13cy, Hwy	Dumpeers	34	174.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	873	Diesel
TCC Central - 6	Water Tanker	Off-Highway Truck	204	240.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1200	Diesel
TCC Central - 7	Truck, End Dump, 10-13cy, Hwy	Dumpeers for Fill from Twin Cities Complex Borrow	149	4821.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	24105	Diesel
TCC Central - 8	Concrete Pump Truck	Off-Highway Truck	65	560.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2800	Diesel
TCC Central - 9	CAT 730 Rear Dump	Dumper	57	155	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	775	Diesel or Hybrid
TCC Central - 10	CAT 730 Rear Dump	Dumper	81	579	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2896	Diesel or Hybrid
TCC Central - 10	Articulated Rear Dump 22 CY/CAT 730	Dumpeer	81	508.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2540	Diesel or Hybrid
TCC Central - 10	Concrete Pump Truck	Off-Highway Truck	81	5083.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	25419	Diesel
TCC Central - 11	CAT 730 Rear Dump	Dumper	17	155	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	775	Diesel or Hybrid
TCC Central - 12	CAT 730 Rear Dump	Dumper	92	579	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2896	Diesel or Hybrid
TCC Central - 12	Articulated Rear Dump 22 CY/CAT 730	Dumpeer	92	508.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2540	Diesel or Hybrid
TCC Central - 13	CAT 730 Rear Dump	Dumper	65	3440	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	17199	Diesel or Hybrid
TCC Central - 16	CAT 730 Rear Dump	Dumper	65	3440	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	17199	Diesel or Hybrid
TCC Central - 17	Concrete Pump Truck	Off-Highway Truck	43	394.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1974	Diesel
TCC Central - 29	Truck, End Dump, 10-13cy, Hwy	Dumper	135	8780.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	43900	Diesel

Employees Required to Twin Cities Complex - Central
Options 1A, 1B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
TCC-Central - 1	Carpenter Apprentice	298.66	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Carpenter Foreman	298.66	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Carpenter Journeyman	597.34	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Electrical Foreman	149.34	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Electrician Journeyman	597.34	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Iron Worker Journeyman Rebar/Struct	597.34	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Laborer G2 General	597.34	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Operator G3a Cranes 45 t and under	298.66	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Teamster G3 Boom Truck	149.34	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Operator G4 Dozer & Push Cat	364.43	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Operator G2 Excavator 3.5 to 7.0 cy	182.21	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	OPERATING ENGINEER FOREMAN	91.11	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Teamster G3 ED 8-24cy, Water>7mgal	1093.28	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Bulldozer Foreman	400	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Bulldozer Laborer	800	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Mechanic / Welder	400	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Hyd Crane Operator	800	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Flat Truck Driver	400	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central -1						
TCC-Central - 2	Laborer G2 General	27.94	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 2	Operator G5 Compactor w-blade	232.83	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 2	Operator G4 Dozer & Push Cat	232.83	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 2	OPERATING ENGINEER FOREMAN	232.83	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 2	Operator G2 Finish Blade	116.41	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 2	Teamster G3 ED 8-24cy, Water>7mgal	116.41	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central -2						
TCC-Central - 3	Laborer G1 Pipe layers	349.25	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 3	Laborer G1 Power Tamper	174.63	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 3	Operator G3 BH-Loader>3/4cy	87.31	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 3	Teamster G2 Hwy ED 6-8cy, Water<7mgal	174.63	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central -3						
TCC-Central - 4	Project Manager	19200	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Safety Manager	19200	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	QC Manager	19200	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Environmental Manager	18515	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Project Engineer	19200	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Cost Engineer	19200	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Field Engineer	14400	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Safety Engineer	37027	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Schedule Engineer	9600	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Shift Engineers	37027	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	QC Technician	9600	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Survey Party Chief	19200	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Survey Rod Man	19200	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Tunnel Superintendent	18515	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Tunnel Walkers	18515	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Equipment Superintendent	18515	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Electrical Superintendent	18515	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	General Superintendent	19200	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Concrete Superintendent	19200	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Purchasing Agent	19200	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Runner	19200	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Payroll Clerk	19200	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Office Administrator	19200	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Accountant	19200	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central -4						
TCC-Central - 5	General Foreman	495	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 5	Dozer Operator	990	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 5	Grader Operator	990	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 5	Operator G4 Grade Check	495	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 5	Scraper Operator	1980	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central -5						
TCC-Central - 6	General Foreman	2282.73	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Dozer Operator	4325.45	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Grader Operator	4325.45	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Operator G4 Grade Check	2042.73	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Scraper Operator	8170.91	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Grade Setter / Checker	240	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Loader Operator	240	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	General Laborer	480	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Flagger	480	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Compactor Operator	480	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central -6						
TCC-Central - 7	Grade Setter / Checker	1643.81	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 7	Compactor Operator	1643.81	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 7	Dozer Operator	1643.81	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 7	Grader Operator	1643.81	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 7	Truck Driver	1643.81	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central -7						
TCC-Central - 8	Hyd Crane Operator	453.22	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 8	General Laborer	809.44	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 8	Carpenter	1424.88	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 8	Carpenter Foreman	216.22	10		Sacramento to/from Twin Cities Complex	17

TCC-Central - 8	Iron Worker Foreman	377	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 8	Iron Worker	3770	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 8	Truck Driver	560	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central -8					
TCC-Central - 9	Shifter	9.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	Lead Miner	9.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	Miner	9.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	Loader Operator	9.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	Excavator Operator	9.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	Truck Driver	152.93	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	Carpenter	684	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	Carpenter Foreman	171	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	General Laborer	16	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central -9					
TCC-Central - 10	General Laborer	6788.76	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	General Foreman	1396	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Mechanic Welder	1016	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Shaft Crane Operator	1016	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Crane Oiler	1016	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Truck Driver	579.12	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Hyd Crane Operator	1016	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Loader Operator	888	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Slurry Wall Consultant	508	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Shifter	1524	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Lead Miner	508	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Miner	4064	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Carpenter	84.92	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Carpenter Foreman	21.23	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Iron Worker Foreman	1034.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Iron Worker	5153.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Excavator Operator	380	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central -10					
TCC-Central - 11	Truck Driver	152.93	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 11	Loader Operator	9.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 11	Shifter	9.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 11	Lead Miner	9.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 11	Miner	9.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 11	Excavator Operator	9.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 11	Carpenter	652	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 11	Carpenter Foreman	163	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central -9					
TCC-Central - 12	Mechanic / Welder	1016	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Hyd Crane Operator	1016	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Loader Operator	888	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	General Laborer	6804.93	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	General Foreman	1396	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Carpenter	117.26	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Carpenter Foreman	29.32	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Truck Driver	579.12	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Shifter	1016	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Lead Miner	508	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Miner	4064	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Iron Worker Foreman	1034.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Iron Worker	5153.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Excavator Operator	380	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Shaft Crane Operator	1016	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Crane Oiler	1016	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central -12					
TCC-Central - 13	Shaft Crane Operator	688	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 13	Toplander	688	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 13	Crane Oiler	688	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 13	Diver Contractor	40	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central -13					
TCC-Central - 14	Project Manager	12640	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Office Manager	12640	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Safety Manager	12640	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	QC Manager	12640	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Geotechnical Manager	12188.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Environmental Manager	12188.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Project Engineer	12640	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Cost Engineer	12640	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Field Engineer	9480	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Safety Engineer	24377.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Schedule Engineer	6320	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Shift Engineers	24377.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	QC Technician	6320	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Survey Party Chief	12640	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Survey Rod Man	12640	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Tunnel Superintendent	12188.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Tunnel Walkers	24377.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Equipment Superintendent	12188.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Electrical Superintendent	12188.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	General Superintendent	12640	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Concrete Superintendent	12640	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Purchasing Agent	12640	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Runner	12640	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Payroll Clerk	12640	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Office Administrator	12640	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Accountant	12640	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central -14					
TCC-Central - 15	Bullgang Foreman	560	10	Sacramento to/from Twin Cities Complex	17

TCC-Central - 15	Bulgang Laborer	1760	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Mechanic / Welder	560	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Hyd Crane Operator	960	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Flat Truck Driver	400	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Master Mechanic	480	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Shaft Crane Operator	160	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Crane Oiler	160	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Diver Contractor	40	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Electrician	160	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central -15					
TCC-Central - 16	Shaft Crane Operator	688	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 16	Toplander	688	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 16	Crane Oiler	688	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central -16					
TCC-Central - 17	Shifter	725.32	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Lead Miner	99.32	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Miner	2046.6	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Shaft Crane Operator	466	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Toplander	1106	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Bottomlander	466	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Iron Worker Foreman	626	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Iron Worker	4448	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Hyd Crane Operator	557.3	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Diver Contractor	18.28	24	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central -17					
TCC-Central - 18	Shifter	200	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 18	Lead Miner	200	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 18	Miner	1600	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 18	Hyd Crane Operator	200	24	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central -18					
TCC-Central - 19	Shifter	184.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Lead Miner	42.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Miner	553.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Mechanic / Welder	42.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Shaft Crane Operator	184.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Toplander	184.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Crane Oiler	184.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Electrician	42.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Iron Worker	1136	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Iron Worker Foreman	142	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central -19					
TCC-Central - 20	Shaft Crane Operator	544.44	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 20	Toplander	544.44	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 20	Bottomlander	544.44	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 20	Crane Oiler	544.44	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 20	Iron Worker	4355.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 20	Iron Worker Foreman	544.44	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central -20					
TCC-Central - 21	Shifter	1306.32	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Lead Miner	1306.32	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Miner	7301.52	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Master Mechanic	120	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Mechanic / Welder	1225.16	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Shaft Crane Operator	1426.32	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Toplander	1426.32	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Bottomlander	936.72	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Crane Oiler	1322.32	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Electrician	436.36	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Hyd Crane Operator	160	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Truck Driver	19095	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Concrete Pump Operator	441.16	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central -21					
TCC-Central - 22	Bulgang Foreman	160	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 22	Bulgang Laborer	960	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 22	Mechanic / Welder	160	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 22	Master Mechanic	480	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 22	Shaft Crane Operator	160	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 22	Crane Oiler	160	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 22	Electrician	160	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 22	Hyd Crane Operator	160	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central -22					
TCC-Central - 23	Shifter	2550	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Lead Miner	2550	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Miner	46236	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Segment Carrier Operator	2400	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Mechanic / Welder	5924	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Shaft Crane Operator	1150	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Toplander	1150	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Bottomlander	1150	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Crane Oiler	1150	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Electrician	3650	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Hyd Crane Operator	5448	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Flat Truck Driver	2274	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	TBM Operator	2800	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Bulgang Foreman	2274	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Bulgang Laborer	4548	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Conveyor Belt Man	1000	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central -23					
TCC-Central - 24	Shifter	42864	20	Sacramento to/from Twin Cities Complex	17

TCC-Central - 24	Lead Miner	42864	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Miner	294390.99	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Segment Carrier Operator	290568	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Mechanic / Welder	113562.48	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Shaft Crane Operator	66509.49	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Toplander	66509.49	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Bottomlander	66509.49	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Crane Oiler	66509.49	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Electrician	80070.99	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Hyd Crane Operator	29776	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Conveyor Belt Man or Sub	79684	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Dozer Operator	36820	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Flat Truck Driver	14888	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Master Mechanic	18603.9	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Loader Operator	36820	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Operating Engineer	36820	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Operator G2 Plant Operator	36820	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Utility Truck Operator	38100	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	TBM Operator	85728	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Bulgang Foreman	52988	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Bulgang Laborer	182176	20	Sacramento to/from Twin Cities Complex	17

TOTAL TCC-Central -24

TCC-Central - 25	Shifter	2550	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Lead Miner	2550	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Miner	17100	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Segment Carrier Operator	4800	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Mechanic / Welder	3650	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Shaft Crane Operator	1150	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Toplander	1150	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Bottomlander	1150	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Crane Oiler	1150	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Electrician	3650	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Hyd Crane Operator	900	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Conveyor Belt Man or Sub	1000	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Truck Driver	10620	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	TBM Operator	2800	10	Sacramento to/from Twin Cities Complex	17

TOTAL TCC-Central -25

TCC-Central - 26	Shifter	21412	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Lead Miner	21412	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Miner	165776	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Segment Carrier Operator	161152	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Mechanic / Welder	63570.78	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Shaft Crane Operator	37464	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Toplander	37464	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Bottomlander	37464	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Crane Oiler	37464	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Electrician	42492	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Hyd Crane Operator	21077.56	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Conveyor Belt Man or Sub	42092	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Dozer Operator	20680	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Flat Truck Driver	10538.78	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Master Mechanic	10540	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Man Transport Truck Operator	21495.38	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Operating Engineer	20680	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Operator G2 Plant Operator	20680	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Utility Truck Operator	21495.38	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	TBM Operator	42824	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Bulgang Foreman	32034.16	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Bulgang Laborer	107059.08	20	Sacramento to/from Twin Cities Complex	17

TOTAL TCC-Central -26

TCC-Central - 27	Shifter	1405	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Lead Miner	1405	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Miner	6700	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Forklift Operator	690	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Mechanic / Welder	2300	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Shaft Crane Operator	1505	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Toplander	1405	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Bottomlander	1405	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Crane Oiler	815	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Electrician	2220	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Hyd Crane Operator	975	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Flat Truck Driver	80	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Master Mechanic	300	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Utility Truck Operator	540	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Bulgang Foreman	180	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Bulgang Laborer	760	10	Sacramento to/from Twin Cities Complex	17

TOTAL TCC-Central -27

TCC-Central - 28	Shifter	1605	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Lead Miner	1605	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Miner	7900	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Forklift Operator	890	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Mechanic / Welder	2420	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Shaft Crane Operator	1705	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Toplander	1605	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Bottomlander	1605	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Crane Oiler	815	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Electrician	2420	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Hyd Crane Operator	815	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Master Mechanic	300	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Utility Truck Operator	740	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Bulgang Foreman	100	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Bulgang Laborer	600	10	Sacramento to/from Twin Cities Complex	17

TOTAL TCC-Central -28

TCC-Central - 29	Excavator Operator	207.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Laborer G2 Concrete Laborer	1050	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Laborer G2 General	270	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Laborer G3 Dumpman	300	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Laborer G3 Flagman	760	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Shaft Crane Operator	207.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Toplander	207.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Bottomlander	207.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Crane Oiler	207.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G2 Excavator 3.5 to 7.0 cy	2450	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G2 Finish Blade	700	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G3 Loader >4cy	800	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G4 Dozer & Push Cat	3710	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G4 Scraper	2150	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G5 Compactor w-blade	500	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G6 Tractor	810	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operating Engineer Foreman	1035	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Teamster G2 Hwy ED 6-8cy, Water<7mgal	9525	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Teamster G4 ED 25-65 Cy	700	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central -29					

Marine Inventory for Twin Cities Complex - Central
Options 1A, 1B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Twin Cities Complex - Central
Options 1A, 1B

Code	# day	Locomotive Type	From Depot Site	Delivery Depot	Rail Cars	Rail Cars/Day	Main Railroad	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
TCC-Central - 23	105	Pre Cast Segment 36' ID x 6' Wide	Sacramento	Twin Cities Complex Sidetrack	230	2.19	UPRR						
TCC-Central - 24	2064	Pre Cast Segment 36' ID x 6' Wide	Sacramento	Twin Cities Complex Sidetrack	8501	4.12	UPRR						
TCC-Central - 25	120	Pre Cast Segment 36' ID x 6' Wide	Sacramento	Twin Cities Complex Sidetrack	58	0.48	UPRR						
TCC-Central - 26	1297	Pre Cast Segment 36' ID x 6' Wide	Sacramento	Twin Cities Complex Sidetrack	4800	3.70	UPRR						

Rail Activity for RTM to Southern Complex presented in Southern Complex workbooks

**Helicopter Inventory for Twin Cities Complex - Central
Options 1A, 1B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Twin Cities Complex - Central
Options 1A, 1B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
TCC-Central - 1	507	90	5.6	41909	466						
TCC-Central - 2		29				55878	1927				
TCC-Central - 5		44		249472	5670						
TCC-Central - 6		204		1029535	5047						
TCC-Central - 7		149				72310	485				
TCC-Central - 8		65									
TCC-Central - 9		57		635	11						
TCC-Central - 10		81		12708	157						
TCC-Central - 11		17		635	37						
TCC-Central - 12		92		12708	138						
TCC-Central - 13		65		75675	1164						
TCC-Central - 16		65		75675	1164						
TCC-Central - 17		43									
TCC-Central - 19		20									
TCC-Central - 21		93									
TCC-Central - 24 - RTM		2064		3554725	1722						
TCC-Central - 25		120									
TCC-Central - 26 - RTM		1297		1977624	1525						
TCC-Central - 26		1297									
TCC-Central - 29	395	135	2.9								

**Demolition Assumptions for Twin Cities Complex - Central
Options 1A, 1B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for New Hope Central Access Road
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Road Base on Access Road	NH_Central Access-1	2/22/2027	2/25/2027	4	4	10
12 Month Maintenance: First Overlay Walnut Grove Blvd from Blossom to Lauffer	NH_Central Access-2	4/10/2028	4/13/2028	4	4	10
12 Month Maintenance: Second Overlay Walnut Grove Blvd from Blossom to Lauffer	NH_Central Access-3	4/10/2029	4/13/2029	4	4	10
Acres - Overlay		5.23				
Acres - New Gravel Road		1.1				

Offroad Equipment (Fossil Fuel) Inventory for New Hope Central Access Road
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
NH_Central Access-1	CAT 14 M	Grader	7.6	4	2	Diesel	274	0.41		
NH_Central Access-1	Water Pump, 4" Diesel	Pumps	7.6	4	2	Diesel	10	0.74		
NH_Central Access-1	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	7.6	4	2	Diesel	156	0.38		
NH_Central Access-2	CAT 14 M	Grader	72.94	4	18	Diesel	274	0.41		
NH_Central Access-2	Water Pump, 4" Diesel	Pumps	72.94	4	18	Diesel	10	0.74		
NH_Central Access-3	CAT 14 M	Grader	72.94	4	18	Diesel	274	0.41		
NH_Central Access-3	Water Pump, 4" Diesel	Pumps	72.94	4	18	Diesel	10	0.74		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for New Hope Central Access Road
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
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NOT NEEDED

Vehicle Inventory for New Hope Central Access Road
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. ...)	# day	Vehicle Hours	Hours/Trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day)
Vehicle Use on Paved Roads --- and Not on Construction Site												
NH_Central Access-1	Pickup, 3/4T, 4wd	Materials from Sacramento	4	7.6	0.6	12	3	New Hope Shaft to/from Sacramento	19	38	Hybrid Gasoline	
NH_Central Access-1	Truck, Water, 4 mgal, Hwy	Water from Lodi	4	2	0.6	3	1	New Hope Shaft to/from Lodi	17	34	Diesel	
NH_Central Access-1	Truck/ End Dump/ 16-20cy Hwy	Base Rock from Sacramento	4	35	0.6	56	14	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH_Central Access-1	Pickup, 3/4T, 4wd	Materials from Sacramento	4	1	0.6	1	0	New Hope Shaft to/from Sacramento	19	38	Hybrid Gasoline	
NH_Central Access-1	Truck, Flatbed, 10T, Hwy	Grader from Sacramento	1	1	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH_Central Access-1	Truck, Flatbed, 10T, Hwy	Roller to and from Sacramento	2	1	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH_Central Access-2	Pickup, 3/4T, 4wd	Materials from Sacramento	4	7.295	0.6	12	3	New Hope Shaft to/from Sacramento	19	38	Hybrid Gasoline	
NH_Central Access-2	Truck, Water, 4 mgal, Hwy	Water from Lodi	4	1	0.6	1	0.3	New Hope Shaft to/from Lodi	17	34	Diesel	
NH_Central Access-2	Truck/ End Dump/ 16-20cy Hwy	Base Rock from Sacramento	4	210	0.6	332	83	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH_Central Access-2	Pickup, 3/4T, 4wd	Materials from Sacramento	4	1	0.6	1	0	New Hope Shaft to/from Sacramento	19	38	Hybrid Gasoline	
NH_Central Access-3	Pickup, 3/4T, 4wd	Materials from Sacramento	4	7.295	0.6	12	3	New Hope Shaft to/from Sacramento	19	38	Hybrid Gasoline	
NH_Central Access-3	Truck, Water, 4 mgal, Hwy	Water from Lodi	4	1	0.6	1	0.3	New Hope Shaft to/from Lodi	17	34	Diesel	
NH_Central Access-3	Truck/ End Dump/ 16-20cy Hwy	Base Rock from Sacramento	4	210	0.6	332	83	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH_Central Access-3	Truck, Flatbed, 10T, Hwy	Grader to Sacramento	1	1	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH_Central Access-3	Pickup, 3/4T, 4wd	Materials from Sacramento	4	1	0.6	1	0	New Hope Shaft to/from Sacramento	19	38	Hybrid Gasoline	

Vehicle Use on Unpaved/DIRT Surface (no access roads at bank and ride lots) --- on the Construction Site
None

Employees Required to New Hope Central Access Road
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	Employee Type	Hours	# Work Hours/Day	# of Employees-Days	# of One-Way Employee Trips/Day	Trip Location (to/from)	Commute Miles/One-way Trip	One-Way Commute Miles/Day	Commute Miles/ Total Trip/Day	Total Commute Miles/Day
NH_Central Access-1	Laborer G3 Flagman	15.2	10	2		Sacramento to/from New Hope Shaft	19		38	
NH_Central Access-1	Operator G7 Roller, Compactor	7.6	10	1		Sacramento to/from New Hope Shaft	19		38	
NH_Central Access-1	OPERATING ENGINEER FOREMAN	7.6	10	1		Sacramento to/from New Hope Shaft	19		38	
NH_Central Access-1	Operator G4 Grade Check	7.6	10	1		Sacramento to/from New Hope Shaft	19		38	
NH_Central Access-1	Operator G2 Finish Blade	7.6	10	1		Sacramento to/from New Hope Shaft	19		38	
NH_Central Access-1	Operator G8 Generator	1.52	10	1		Sacramento to/from New Hope Shaft	19		38	
NH_Central Access-1	Teamster G2 Hwy ED 6-8cy, Water	7.6	10	1		Sacramento to/from New Hope Shaft	19		38	
TOTAL NH_Central Access-1				8	15			286		572
NH_Central Access-2	OPERATING ENGINEER FOREMAN	7.295	10	1		Sacramento to/from New Hope Shaft	19		38	
NH_Central Access-2	Operator G2 Finish Blade	72.94	10	7		Sacramento to/from New Hope Shaft	19		38	
NH_Central Access-2	Operator G8 Generator	14.59	10	1		Sacramento to/from New Hope Shaft	19		38	
NH_Central Access-2	Teamster G2 Hwy ED 6-8cy, Water<7	72.94	10	7		Sacramento to/from New Hope Shaft	19		38	
TOTAL NH_Central Access-2				17	34			648		1296
NH_Central Access-3	OPERATING ENGINEER FOREMAN	7.295	10	1		Sacramento to/from New Hope Shaft	19			
NH_Central Access-3	Operator G2 Finish Blade	72.94	10	7		Sacramento to/from New Hope Shaft	19		38	
NH_Central Access-3	Operator G8 Generator	14.59	10	1		Sacramento to/from New Hope Shaft	19		38	
NH_Central Access-3	Teamster G2 Hwy ED 6-8cy, Water<7	72.94	10	7		Sacramento to/from New Hope Shaft	19		38	
TOTAL NH_Central Access-3				17	34			648		1296

**Marine Inventory for New Hope Central Access Road
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B**

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
NOT NEEDED									

**Locomotive Inventory for New Hope Central Access Road
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B**

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
NOT NEEDED								

Helicopter Inventory for New Hope Central Access Road
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
NOT NEEDED					

Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

[illegible]

Demolition Assumptions for New Hope Central Access Road
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

**Construction Schedule for New Hope - Central Tunnel Shaft
Options 1A, 1B**

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Clear and Grub	NH-Central - 1	4/6/2028	4/26/2028	15	5	10
Ground Improvement	NH-Central - 2	4/27/2028	6/14/2028	35	5	10
Raise Shaft Pad	NH-Central - 3	6/15/2028	10/18/2028	90	5	10
Excavate, Set Strips, & Place Guide Wall	NH-Central - 4	10/19/2028	11/3/2028	12	5	10
Place Guide Walls Concrete	NH-Central - 5	11/7/2028	11/7/2028	1	1	10
Excavate Slurry Wall & Place Concrete & Rebar	NH-Central - 6	11/8/2028	12/15/2028	38	7	24
Slurry Wall including Strip Forms and Place Rebar & Top Beam	NH-Central - 7	12/18/2028	1/23/2029	37	7	24
Excavate Shaft	NH-Central - 8	1/30/2029	3/13/2029	43	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	NH-Central - 9	3/14/2029	3/27/2029	13	7	24
Dewater Shaft	NH-Central - 10	3/28/2029	4/3/2029	7	7	24
Place TBM Cradle Rebar and Cradle Pour	NH-Central - 11	4/4/2029	4/11/2029	6	5	10
Breakout Slurry Wall for TBM	NH-Central - 12	4/12/2029	5/8/2029	19	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	NH-Central - 13	4/12/2029	8/1/2029	80	5	10
Place Shaft Cover	NH-Central - 14	8/1/2029	8/7/2029	5	5	10
Total Site Acres		11.1				

Offroad Equipment (Fossil Fuel) Inventory for New Hope - Central Tunnel Shaft
Options 1A, 1B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
NH-Central - 1	CAT D8 Dozer	Crawler Tractor	14.24	15	1	Diesel Tier 4 or Hybrid Diesel	179	0.43		
NH-Central - 1	CAT Grader 16H - 16' Blade	Grader	14.24	15	1	Diesel	285	0.41		
NH-Central - 1	623G Scraper Elevate 21 CY	Scaper	28.48	15	2	Diesel	359	0.48		
NH-Central - 2	Air Compressor 375 CFM	Air Compressor	280	35	8	Diesel Tier 4	122	0.48		
NH-Central - 2	Grove RT Crane 30T	Crane	280	35	8	Diesel	160	0.29		
NH-Central - 2	DMM Deep Soil Mixer	Bore Drill Rigs	280	35	8	Diesel	808	0.5		
NH-Central - 2	DMM Grout Mix Plant	Other Industrial Equipmen	280	35	8	Diesel	500	0.34		
NH-Central - 2	Case 590 SupN Loader	Rubber Tired Loaders	280	35	8	Diesel	110	0.36		
NH-Central - 3	CAT CB-634D Vibratory 84"	Rollers	1026.74	90	11	Diesel	145	0.38		
NH-Central - 3	CAT Grader 16H	Graders	1026.74	90	11	Diesel	285	0.41		
NH-Central - 3	CAT D8 Dozer	Crawler Tractor	1026.74	90	11	Diesel	328	0.43		
NH-Central - 4	CAT Hyd Excavator 1CY	Excavator	6	12	1	Diesel	138	0.38		
NH-Central - 4	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	6	12	1	Diesel or Hybrid	130	0.36		
NH-Central - 6	1600 CFM Compressor Diesel	Air Compressor	262	38	7	Diesel Tier 4	540	0.48		
NH-Central - 6	Hydraulic 55 Ton Crane	Crane	524	38	14	Diesel	350	0.29		
NH-Central - 6	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	262	38	7	Diesel or Hybrid	130	0.36		
NH-Central - 6	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	262	38	7	Diesel	8	0.56		
NH-Central - 6	Manitowoc 777 200 Ton Crane	Crane	262	38	7	Diesel	760	0.29		
NH-Central - 7	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	235.5	37	6	Diesel or Hybrid	130	0.36		
NH-Central - 7	250 CFM Compressor Diesel	Air Compressor	4	37	0.1	Diesel Tier 3	75	0.48		
NH-Central - 8	Manitowoc 777 200 Ton Crane	Crane	231	43	5	Diesel	760	0.29		
NH-Central - 9	Manitowoc 777 200 Ton Crane	Crane	111	13	9	Diesel	760	0.29		
NH-Central - 9	Hydraulic 40 Ton Crane	Crane	36	13	3	Diesel	300	0.29		
NH-Central - 9	Hydraulic 25 Ton Crane	Crane	76.47	13	6	Diesel	100	0.29		
NH-Central - 10	Hydraulic 15 Ton Crane	Crane	100	7	14	Diesel	100	0.29		
NH-Central - 11	Manitowoc 777 200 Ton Crane	Crane	35.2	6	6	Diesel	760	0.29		
NH-Central - 11	250 CFM Compressor Diesel	Air Compressor	8.2	6	1	Diesel Tier 3	75	0.48		
NH-Central - 12	250 CFM Compressor Diesel	Air Compressor	118.67	19	6	Diesel Tier 3	75	0.48		
NH-Central - 12	Manitowoc 777 200 Ton Crane	Crane	118.67	19	6	Diesel	760	0.29		
NH-Central - 13	Hydraulic 9 Ton Crane	Crane	264.8	80	3	Diesel	85	0.29		
NH-Central - 13	250 CFM Compressor Diesel	Air Compressor	699.99	80	9	Diesel Tier 3	75	0.48		
NH-Central - 13	Manitowoc 777 200 Ton Crane	Crane	102	80	1	Diesel	760	0.29		
NH-Central - 13	999-275 Ton Crane	Crane	128.33	80	2	Diesel	900	0.29		
NH-Central - 14	Hydraulic 9 Ton Crane	Crane	40	5	8	Diesel	85	0.29		
NH-Central - 14	Hydraulic 40 Ton Crane	Crane	40	5	8	Diesel	300	0.29		
NH-Central - 14	CAT Forklift 5,500 LB	Aerial Lift	40	5	8	Diesel	63	0.31		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

**Offroad Equipment (Electric) Inventory for New Hope - Central Tunnel Shaft
Options 1A, 1B**

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
NH-Central - 13	Axial Fan 114,000 CFM Electric Welder	60	80	50	38
NH-Central - 13	400 AMP	204.8	80	15	38
NH-Central - 2	Portable Gen 90kW	35	17		
NH-Central - 2	Water Pump 4"	17	17		
NH-Central - 6	Slurry Wall Techniwall Pump	262	38		
NH-Central 10	Dewater Pump 6"	400	7		
NH-Central 10	Generator 150kW	100	7		
NH-Central 11	Trailer Conc Pump 100 cy/hr	8.2	6		
NH-Central 13	Trailer Conc Pump 100 cy/hr	321.2	80		

Vehicle Inventory for New Hope - Central Tunnel Shaft
Options 1A, 1B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
NH-Central - 1	Truck Flatbed 4 T Highway	Materials from Sacramento	15	53.2	0.6	84	6	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 1	Truck, Flatbed, 10T, Hwy	Grader and Scraper to and from Sacramento	2	2.5	0.6	4	2.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 1	Truck, Flatbed, 10T, Hwy	Crawler Tractor from Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 2	Pickup 1/2T 2 WD	Materials from Sacramento	35	594.2	0.6	938	27	New Hope Shaft to/from Sacramento	19	38	Hybrid Gasoline	
NH-Central - 2	Truck Flatbed 4 T Highway	Materials from Sacramento	35	594.2	0.6	938	27	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 2	Mechanic Truck	Materials from Sacramento	35	594.2	0.6	938	27	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 2	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement from Sacramento	35	79.5	0.5	149	4	New Hope Shaft to/from Sacramento	16	32	Diesel	
NH-Central - 2	Truck, Flatbed, 10T, Hwy	Crane, Trencher, & Other Equipment to and from Sacramento	2	3.8	0.6	6	3.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 3	Highway Dump Truck 18 CY	Materials from Sacramento	90	1026.7	0.6	1621	18	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 3	Truck End Dump 16-20cy Hwy	Soil Material in Covered Trucks from Twin Cities Complex	90	1507.0	0.5	3014	33	New Hope Shaft to/from Twin Cities Complex	15	30	Diesel	
NH-Central - 3	Truck, Flatbed, 10T, Hwy	Grader and Roller to and from Sacramento	2	2.5	0.6	4	2.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 3	Truck, Flatbed, 10T, Hwy	Crawler Tractor to Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 4	Truck, Flatbed, 10T, Hwy	Excavator to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 4	Truck, Flatbed, 10T, Hwy	Loader from Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 5	Truck Flatbed 4 T Highway	Rebar from Sacramento	1	0.6	0.6	1	1	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 5	Concrete Transit Mix Truck 12cy	Concrete from Lambert CBP	35	11.5	0.5	23	1	New Hope Shaft to/from Lambert CBP	15	30	Diesel	
NH-Central - 6	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	38	123.5	0.6	195	5	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 6	Truck Flatbed 4 T Highway	Rebar from Sacramento	38	16.5	0.6	26	1	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 6	Concrete Transit Mix Truck 12cy	Concrete from Lambert CBP	38	303.0	0.5	606	16	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Central - 6	Truck, Flatbed, 10T, Hwy	Crane and Other Equipment to and from Sacramento	2	2.5	0.6	4	2.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 6	Truck, Flatbed, 10T, Hwy	Crane from Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 7	Truck Flatbed 4 T Highway	Rebar from Sacramento	37	0.6	0.6	1	0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 7	Concrete Transit Mix Truck 12cy	Concrete from Lambert CBP	37	5.5	0.5	11	0	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Central - 7	Truck, Flatbed, 10T, Hwy	Loader to Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 8	Concrete Transit Mix Truck 12cy	Concrete from Lambert CBP	13	80.0	0.5	160	12	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Central - 9	Truck Flatbed 4 T Highway	Rebar from Sacramento	13	4.4	0.6	7	1	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 9	Concrete Transit Mix Truck 12cy	Concrete from Lambert CBP	13	242.0	0.5	484	37	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Central - 9	Truck, Flatbed, 10T, Hwy	Cranes to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 10	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 11	Truck Flatbed 4 T Highway	Rebar from Sacramento	6	0.6	0.6	1	0.2	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 11	Concrete Transit Mix Truck 12cy	Concrete from Lambert CBP	6	17.5	0.5	35	6	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Central - 12	Truck Flatbed 4 T Highway	Rebar from Sacramento	19	1.3	0.6	2	0.1	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 12	Concrete Transit Mix Truck 12cy	Concrete from Lambert CBP	19	112.5	0.5	225	12	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Central - 13	Truck Flatbed 4 T Highway	Rebar from Sacramento	80	101.3	0.6	160	2.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 13	Concrete Transit Mix Truck 12cy	Concrete from Lambert CBP	80	70.0	0.5	140	2	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Central - 13	Truck, Flatbed, 10T, Hwy	Crane to Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 13	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 14	Highway Flatbed 10 Ton	Materials from Sacramento	5	40.0	0.6	63	13	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 14	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
Vehicle Use on Unpaved/Dirty Surface (no access roads at park and ride lots) --- on the Construction Site												
NH-Central - 4	CAT 730 Rear Dump	Dumper	12	18.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		92	Diesel or Hybrid	
NH-Central - 6	CAT 730 Rear Dump	Dumper	38	298.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1493	Diesel or Hybrid	
NH-Central - 6	Articulated Rear Dump 22 CY/CAT 730	Dumper	38	262.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1310	Diesel or Hybrid	
NH-Central - 6	Concrete Pump Truck	Off-Highway Truck	38	524.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2620	Diesel	
NH-Central - 8	Trucking Off Highway CAT 730	Dumpers	43	1155.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		5775	Diesel	
NH-Central - 9	Concrete Pump Truck	Off-Highway Truck	13	76.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		380	Diesel	

Employees Required to New Hope - Central Tunnel Shaft Options 1A, 1B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
NH-Central - 1	General Foreman	7.12	10		Sacramento to/from New Hope Shaft	19
NH-Central - 1	Dozer Operator	14.24	10		Sacramento to/from New Hope Shaft	19
NH-Central - 1	Grader Operator	14.24	10		Sacramento to/from New Hope Shaft	19
NH-Central - 1	Operator G4 Grade Check	7.12	10		Sacramento to/from New Hope Shaft	19
NH-Central - 1	Scraper Operator	28.48	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-1						
NH-Central - 2	Laborer G2 General	1782.66	10		Sacramento to/from New Hope Shaft	19
NH-Central - 2	Operator G3a Crane	594.22	10		Sacramento to/from New Hope Shaft	19
NH-Central - 2	Operator G3 BH Loader	594.22	10		Sacramento to/from New Hope Shaft	19
NH-Central - 2	Operating Engineer	594.22	10		Sacramento to/from New Hope Shaft	19
NH-Central - 2	Operator G4 Grade Check	594.22	10		Sacramento to/from New Hope Shaft	19
NH-Central - 2	Operator G4 Heavy Duty Mechanic	594.22	10		Sacramento to/from New Hope Shaft	19
NH-Central - 2	Operator G2 Plant Operator	1188.44	10		Sacramento to/from New Hope Shaft	19
NH-Central - 2	Teamster G1 Hwy	594.22	10		Sacramento to/from New Hope Shaft	19
NH-Central - 2	Teamster G2 Hwy	594.22	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-2						
NH-Central - 3	Grade Setter / Checker	1026.74	10		Sacramento to/from New Hope Shaft	19
NH-Central - 3	Water Truck Highway	1026.74	10		Sacramento to/from New Hope Shaft	19
NH-Central - 3	Compactor Operator	1026.74	10		Sacramento to/from New Hope Shaft	19
NH-Central - 3	Dozer Operator	1026.74	10		Sacramento to/from New Hope Shaft	19
NH-Central - 3	Grader Operator	1026.74	10		Sacramento to/from New Hope Shaft	19
NH-Central - 3	Truck Driver	1026.74	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-3						
NH-Central - 4	Shifter	6	10		Sacramento to/from New Hope Shaft	19
NH-Central - 4	Lead Miner	6	10		Sacramento to/from New Hope Shaft	19
NH-Central - 4	Miner	6	10		Sacramento to/from New Hope Shaft	19
NH-Central - 4	Loader Operator	6	10		Sacramento to/from New Hope Shaft	19
NH-Central - 4	Excavator Operator	6	10		Sacramento to/from New Hope Shaft	19
NH-Central - 4	Truck Driver	17.94	10		Sacramento to/from New Hope Shaft	19
NH-Central - 4	Carpenter	426.54	10		Sacramento to/from New Hope Shaft	19
NH-Central - 4	Carpenter Foreman	106.64	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-4						
NH-Central - 5	General Laborer	10.9	10		Sacramento to/from New Hope Shaft	19
NH-Central - 5	Carpenter	21.8	10		Sacramento to/from New Hope Shaft	19
NH-Central - 5	Carpenter Foreman	5.45	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-5						
NH-Central - 6	General Laborer	1310	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	General Foreman	262	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	Mechanic Welder	262	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	Shaft Crane Operator	524	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	Crane Oiler	524	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	Truck Driver	298.68	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	Shifter	524	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	Lead Miner	262	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	Miner	2096	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	Shifter	262	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	Hyd Crane Operator	262	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	Iron Worker Foreman	524	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	Iron Worker	2620	24		Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-6						
NH-Central - 7	Hydraulic Excavator to 3.5	235.5	24		Sacramento to/from New Hope Shaft	19
NH-Central - 7	Loader Operator	235.5	24		Sacramento to/from New Hope Shaft	19
NH-Central - 7	Excavator Operator	235.5	24		Sacramento to/from New Hope Shaft	19
NH-Central - 7	Hyd Track Drill	235.5	24		Sacramento to/from New Hope Shaft	19
NH-Central - 7	General Laborer	735.9	24		Sacramento to/from New Hope Shaft	19
NH-Central - 7	General Foreman	235.5	24		Sacramento to/from New Hope Shaft	19
NH-Central - 7	Carpenter	36.8	24		Sacramento to/from New Hope Shaft	19
NH-Central - 7	Carpenter Foreman	9.2	24		Sacramento to/from New Hope Shaft	19
NH-Central - 7	Iron Worker Foreman	11	24		Sacramento to/from New Hope Shaft	19
NH-Central - 7	Iron Worker	44	24		Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-7						
NH-Central - 8	Shaft Crane Operator	231	24		Sacramento to/from New Hope Shaft	19
NH-Central - 8	Toplander	231	24		Sacramento to/from New Hope Shaft	19
NH-Central - 8	Crane Oiler	231	24		Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-8						

NH-Central - 9	Diver Contractor	77.48	24	Sacramento to/from New Hope Shaft	19
NH-Central - 9	Shifter	74.24	24	Sacramento to/from New Hope Shaft	19
NH-Central - 9	Lead Miner	38.24	24	Sacramento to/from New Hope Shaft	19
NH-Central - 9	Miner	377.9	24	Sacramento to/from New Hope Shaft	19
NH-Central - 9	Hyd Crane Operator	188.94	24	Sacramento to/from New Hope Shaft	19
NH-Central - 9	Toplander	144	24	Sacramento to/from New Hope Shaft	19
NH-Central - 9	Iron Worker Foreman	36	24	Sacramento to/from New Hope Shaft	19
NH-Central - 9	Iron Worker	288	24	Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-9					
NH-Central - 10	Shifter	100	24	Sacramento to/from New Hope Shaft	19
NH-Central - 10	Lead Miner	100	24	Sacramento to/from New Hope Shaft	19
NH-Central - 10	Miner	800	24	Sacramento to/from New Hope Shaft	19
NH-Central - 10	Hyd Crane Operator	100	24	Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-10					
NH-Central - 11	Shifter	35.2	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Miner	119.6	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Shaft Crane Operator	35.2	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Toplander	35.2	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Crane Oiler	35.2	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Iron Worker	216	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Iron Worker Foreman	27	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Lead Miner	8.2	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Mechanic Welder	8.2	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Electrician	8.2	10	Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-11					
NH-Central - 12	Shaft Crane Operator	118.67	10	Sacramento to/from New Hope Shaft	19
NH-Central - 12	Toplander	118.67	10	Sacramento to/from New Hope Shaft	19
NH-Central - 12	Bottomlander	118.67	10	Sacramento to/from New Hope Shaft	19
NH-Central - 12	Crane Oiler	118.67	10	Sacramento to/from New Hope Shaft	19
NH-Central - 12	Iron Worker	949.36	10	Sacramento to/from New Hope Shaft	19
NH-Central - 12	Iron Worker Foreman	118.67	10	Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-12					
NH-Central - 13	Shifter	699.99	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Lead Miner	699.99	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Miner	4680.75	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Mechanic / Welder	840.49	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Electrician	264.86	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Hyd Crane Operator	264.8	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Shaft Crane Operator	230	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Toplander	230	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Bottomlander	102	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Crane Oiler	178	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Concrete Pump Operator	64.3	10	Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-13					
NH-Central - 14	Bullgang Foreman	40	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Bullgang Laborer	80	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Mechanic / Welder	40	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Hyd Crane Operator	80	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Flat Truck Driver	40	10	Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-14					

Marine Inventory for New Hope - Central Tunnel Shaft
Options 1A, 1B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for New Hope - Central Tunnel Shaft
Options 1A, 1B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for New Hope - Central Tunnel Shaft
Options 1A, 1B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for New Hope - Central Tunnel Shaft
Options 1A, 1B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
NH-Central - 1	11.1	15	1	3587	239						
NH-Central - 3		90				45199	502				
NH-Central - 4		12		392	33						
NH-Central - 5		1				218	218				
NH-Central - 6		38		5756	151	5756	151				
NH-Central - 7		37				104	3				
NH-Central - 8		43		25420	591						
NH-Central - 9		13				4592	353				
NH-Central - 11		6				328	55				
NH-Central - 13		80				2134	27				
NH-Central - 13		80				1286	16				

**Demolition Assumptions for New Hope - Central Tunnel Shaft
Options 1A, 1B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Staten Island Central Access Road
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Road Base on Access Road	SI_Central Access-1	2/19/2027	2/19/2027	1	1	10
12 Month Maintenance: First Overlay Access Road	SI_Central Access-2	4/14/2028	4/19/2028	4	4	10
12 Month Maintenance: Second Overlay Access Road	SI_Central Access-3	4/14/2029	4/19/2029	4	4	10
Initial Asphalt Overlay: Walnut Grove Blvd from Blossom Road to Staten Island Road	SI_Central Access-4	2/22/2027	3/1/2027	7	5	10
Intermediate Asphalt Overlay: Walnut Grove Blvd from Blossom Road to Staten Island Road	SI_Central Access-5	5/9/2030	5/16/2030	6	5	10
Final Asphalt Overlay: Walnut Grove Blvd from Blossom Road to Staten Island Road	SI_Central Access-6	6/12/2037	6/22/2037	9	5	10
Acres - New Road	1.2					

Offroad Equipment (Fossil Fuel) Inventory for Staten Island Central Access Road
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
SI_Central Access-1	CAT 14 M	Grader	11.81	1	12	Diesel	274	0.41		
SI_Central Access-1	Water Pump, 4" Diesel	Pumps	11.81	1	12	Diesel	10		0.74	
SI_Central Access-1	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	11.81	1	12	Diesel	156		0.38	
SI_Central Access-2	CAT 14 M	Grader	75.12	4	19	Diesel	274		0.41	
SI_Central Access-2	Water Pump, 4" Diesel	Pumps	75.12	4	19	Diesel	10		0.74	
SI_Central Access-3	CAT 14 M	Grader	75.12	4	19	Diesel	274		0.41	
SI_Central Access-3	Water Pump, 4" Diesel	Pumps	75.12	4	19	Diesel	10		0.74	
SI_Central Access-4	CAT LOADER/HOE 416 E	Rubber Tired Loader	59.25	7	8	Diesel	78		0.36	
SI_Central Access-4	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	59.25	7	8	Diesel or Hybrid	224		0.42	
SI_Central Access-4	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	59.25	7	8	Diesel or Hybrid	137		0.38	
SI_Central Access-4	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	59.25	7	8	Diesel or Hybrid	133		0.38	
SI_Central Access-5	CAT LOADER/HOE 416 E	Rubber Tired Loader	59.25	6	10	Diesel	78		0.36	
SI_Central Access-5	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	59.25	6	10	Diesel or Hybrid	224		0.42	
SI_Central Access-5	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	59.25	6	10	Diesel or Hybrid	137		0.38	
SI_Central Access-5	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	59.25	6	10	Diesel or Hybrid	133		0.38	
SI_Central Access-6	CAT LOADER/HOE 416 E	Rubber Tired Loader	59.25	9	7	Diesel	78		0.36	
SI_Central Access-6	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	59.25	9	7	Diesel or Hybrid	224		0.42	
SI_Central Access-6	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	59.25	9	7	Diesel or Hybrid	137		0.38	
SI_Central Access-6	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	59.25	9	7	Diesel or Hybrid	133		0.38	

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Staten Island Central Access Road
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
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NOT NEEDED

Vehicle Inventory for Staten Island Central Access Road
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

[illegible]

Employees Required to Staten Island Central Access Road Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip
SI_Central Access-1	Laborer G3 Flagman	23.62	10		Stockton to/from Staten Island Shaft	26
SI_Central Access-1	Operator G7 Roller, Compactor	11.81	10		Stockton to/from Staten Island Shaft	26
SI_Central Access-1	OPERATING ENGINEER FOREMAN	11.81	10		Stockton to/from Staten Island Shaft	26
SI_Central Access-1	Operator G4 Grade Check	11.81	10		Stockton to/from Staten Island Shaft	26
SI_Central Access-1	Operator G2 Finish Blade	11.81	10		Stockton to/from Staten Island Shaft	26
SI_Central Access-1	Operator G8 Generator	2.36	10		Stockton to/from Staten Island Shaft	26
SI_Central Access-1	Teamster G2 Hwy ED 6-8cy, Wate	11.81	10		Stockton to/from Staten Island Shaft	26
TOTAL SI_Central Access-1						
SI_Central Access-2	OPERATING ENGINEER FOREMAN	7.51	10		Stockton to/from Staten Island Shaft	26
SI_Central Access-2	Operator G2 Finish Blade	75.12	10		Stockton to/from Staten Island Shaft	26
SI_Central Access-2	Operator G8 Generator	15.025	10		Stockton to/from Staten Island Shaft	26
SI_Central Access-2	Teamster G2 Hwy ED 6-8cy, Water<7	75.12	10		Stockton to/from Staten Island Shaft	26
TOTAL SI_Central Access-2						
SI_Central Access-3	OPERATING ENGINEER FOREMAN	7.51	10		Stockton to/from Staten Island Shaft	26
SI_Central Access-3	Operator G2 Finish Blade	75.12	10		Stockton to/from Staten Island Shaft	26
SI_Central Access-3	Operator G8 Generator	15.025	10		Stockton to/from Staten Island Shaft	26
SI_Central Access-3	Teamster G2 Hwy ED 6-8cy, Water<7	75.12	10		Stockton to/from Staten Island Shaft	26
TOTAL SI_Central Access-3						
SI_Central Access-4	Laborer G2 General	237.01	10		Stockton to/from Staten Island Shaft	26
SI_Central Access-4	Operator G5 Asphalt Roller	118.51	10		Stockton to/from Staten Island Shaft	26
SI_Central Access-4	Operator G3 BH-Loader>3/4cy	59.25	10		Stockton to/from Staten Island Shaft	26
SI_Central Access-4	OPERATING ENGINEER FOREMAN	59.25	10		Stockton to/from Staten Island Shaft	26
SI_Central Access-4	Operator G4 Grade Check	59.25	10		Stockton to/from Staten Island Shaft	26
SI_Central Access-4	Operator G5 Paver	59.25	10		Stockton to/from Staten Island Shaft	26
SI_Central Access-4	Teamster G2 Hwy ED 6-8cy, Water<7	29.63	10		Stockton to/from Staten Island Shaft	26
TOTAL SI_Central Access-4						
SI_Central Access-5	Laborer G2 General	237.01	10		Stockton to/from Staten Island Shaft	26
SI_Central Access-5	Operator G5 Asphalt Roller	118.51	10		Stockton to/from Staten Island Shaft	26
SI_Central Access-5	Operator G3 BH-Loader>3/4cy	59.25	10		Stockton to/from Staten Island Shaft	26
SI_Central Access-5	OPERATING ENGINEER FOREMAN	59.25	10		Stockton to/from Staten Island Shaft	26
SI_Central Access-5	Operator G4 Grade Check	59.25	10		Stockton to/from Staten Island Shaft	26
SI_Central Access-5	Operator G5 Paver	59.25	10		Stockton to/from Staten Island Shaft	26
SI_Central Access-5	Teamster G2 Hwy ED 6-8cy, Water<7	29.63	10		Stockton to/from Staten Island Shaft	26
TOTAL SI_Central Access-5						
SI_Central Access-6	Laborer G2 General	237.01	10		Stockton to/from Staten Island Shaft	26
SI_Central Access-6	Operator G5 Asphalt Roller	118.51	10		Stockton to/from Staten Island Shaft	26
SI_Central Access-6	Operator G3 BH-Loader>3/4cy	59.25	10		Stockton to/from Staten Island Shaft	26
SI_Central Access-6	OPERATING ENGINEER FOREMAN	59.25	10		Stockton to/from Staten Island Shaft	26
SI_Central Access-6	Operator G4 Grade Check	59.25	10		Stockton to/from Staten Island Shaft	26
SI_Central Access-6	Operator G5 Paver	59.25	10		Stockton to/from Staten Island Shaft	26
SI_Central Access-6	Teamster G2 Hwy ED 6-8cy, Water<7	29.63	10		Stockton to/from Staten Island Shaft	26
TOTAL SI_Central Access-6						

Marine Inventory for Staten Island Central Access Road
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Staten Island Central Access Road
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

Helicopter Inventory for Staten Island Central Access Road
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

[illegible]

Demolition Assumptions for Staten Island Central Access Road
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	# of Structures Demolished	# day	Demolition per day (sf)
NOT NEEDED			

**Construction Schedule for Staten Island - Central Tunnel Shaft
Options 1A, 1B**

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Clear and Grub	SI-Central - 1	10/19/2028	10/20/2028	2	2	10
Ground Improvement	SI-Central - 2	10/23/20208	11/14/2028	17	5	10
Raise Shaft Pad	SI-Central - 3	1/1/2029	7/27/2029	148	5	10
Excavate, Set Strips, & Place Guide Wall	SI-Central - 4	7/30/2029	8/15/2029	13	5	10
Place Guide Walls Concrete	SI-Central - 5	8/16/2029	8/16/2029	1	1	10
Excavate Slurry Wall & Place Concrete & Rebar	SI-Central - 6	8/17/2029	9/25/2029	40	7	24
Slurry Wall including Strip Forms and Place Rebar & Top Beam	SI-Central - 7	9/26/2029	11/7/2029	43	7	24
Excavate Shaft	SI-Central - 8	11/8/2029	12/17/2029	40	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	SI-Central - 9	11/8/2029	12/31/2029	54	7	24
Dewater Shaft	SI-Central - 10	1/1/2030	1/7/2030	7	7	24
Place TBM Cradle Rebar and Cradle Pour	SI-Central - 11	1/8/2030	1/15/2030	6	5	10
Breakout Slurry Wall for TBM	SI-Central - 12	1/16/2030	2/11/2030	20	5	10
Ring Beam	SI-Central - 13	1/8/2030	1/15/2030	6	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	SI-Central - 14	1/16/2030	4/29/2030	75	5	10
Place Shaft Cover	SI-Central - 15	4/29/2030	5/7/2030	7	5	10

Total Site Acres

12

Offroad Equipment (Fossil Fuel) Inventory for Staten Island - Central Tunnel Shaft
Options 1A, 1B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
SI-Central - 1	CAT D8 Dozer	Crawler Tractor	26.66	2	13	Diesel Tier 4 or Hybrid Diesel	179	0.43		
SI-Central - 1	CAT Grader 16H - 16' Blade	Grader	26.66	2	13	Diesel	285	0.41		
SI-Central - 1	623G Scraper Elevate 21 CY	Scraper	53.32	2	27	Diesel	359	0.48		
SI-Central - 2	Air Compressor 375 CFM	Air Compressor	306	17	18	Diesel Tier 4	122	0.48		
SI-Central - 2	Grove RT Crane 30T	Crane	306	17	18	Diesel	160	0.29		
SI-Central - 2	DMM Deep Soil Mixer	Bore Drill Rig	306	17	18	Diesel	808	0.5		
SI-Central - 2	DMM Grout Mix Plant	Other Industrial Equipmen	306	17	18	Diesel	500	0.34		
SI-Central - 2	Portable 90 Kw Diesel	Generators	34	17	2	Diesel Tier 4	158	0.74		
SI-Central - 2	Case 590 SupN Loader	Rubber Tired Loaders	306	17	18	Diesel	110	0.36		
SI-Central - 2	Water Pump 4" Electric	Pumps	306	17	18	Diesel	10	0.74		
SI-Central - 3	CAT CB-634D Vibratory 84"	Rollers	1686.53	148	11	Diesel	145	0.38		
SI-Central - 3	CAT Grader 16H	Graders	1686.53	148	11	Diesel	285	0.41		
SI-Central - 3	CAT D8 Dozer	Crawler Tractor	1686.53	148	11	Diesel	328	0.43		
SI-Central - 4	CAT Hyd Excavator 1CY	Excavator	6	13	0	Diesel	138	0.38		
SI-Central - 4	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	6	13	0	Diesel or Hybrid	130	0.36		
SI-Central - 6	1600 CFM Compressor Diesel	Air Compressor	211	40	5	Diesel Tier 4	540	0.48		
SI-Central - 6	Hydraulic 55 Ton Crane	Crane	211	40	5	Diesel	350	0.29		
SI-Central - 6	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	211	40	5	Diesel or Hybrid	130	0.36		
SI-Central - 6	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	211	40	5	Diesel	8	0.56		
SI-Central - 6	Slurry Wall Techniwell	Pumps	211	40	5	Diesel	500	0.74		
SI-Central - 6	Manitowoc 777 200 Ton Crane	Crane	211	40	5	Diesel	760	0.29		
SI-Central - 7	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	235.5	43	5	Diesel or Hybrid	130	0.36		
SI-Central - 7	250 CFM Compressor Diesel	Air Compressor	4	43	0.1	Diesel Tier 3	75	0.48		
SI-Central - 8	Manitowoc 777 200 Ton Crane	Crane	231	40	6	Diesel	760	0.29		
SI-Central - 9	Manitowoc 777 200 Ton Crane	Crane	111	54	2	Diesel	760	0.29		
SI-Central - 9	Hydraulic 40 Ton Crane	Crane	36	54	1	Diesel	300	0.29		
SI-Central - 9	Hydraulic 25 Ton Crane	Crane	76.47	54	1	Diesel	100	0.29		
SI-Central - 10	Dewater Pump 6"	Pump	400	7	57	Diesel	50	0.74		
SI-Central - 10	150 KW Diesel Generator	Generator	100	7	14	Diesel Tier 4	183	0.74		
SI-Central - 10	Hydraulic 15 Ton Crane	Crane	100	7	14	Diesel	100	0.29		
SI-Central - 11	Manitowoc 777 200 Ton Crane	Crane	35.2	6	6	Diesel	760	0.29		
SI-Central - 11	250 CFM Compressor Diesel	Air Compressor	8.2	6	1	Diesel Tier 3	75	0.48		
SI-Central - 11	Trailer Conc Pump 100 CY HR	Pump	8.2	6	1	Diesel	200	0.74		
SI-Central - 12	250 CFM Compressor Diesel	Air Compressor	118.67	20	6	Diesel Tier 3	75	0.48		
SI-Central - 12	Manitowoc 777 200 Ton Crane	Crane	118.67	20	6	Diesel	760	0.29		
SI-Central - 13	250 CFM Compressor Diesel	Air Compressor	52	6	9	Diesel Tier 3	75	0.48		
SI-Central - 13	Manitowoc 777 200 Ton Crane	Crane	52	6	9	Diesel	760	0.29		
SI-Central - 13	Trailer Conc Pump 100 CY HR	Pump	52	6	9	Diesel	200	0.74		
SI-Central - 14	Hydraulic 9 Ton Crane	Crane	264.8	75	4	Diesel	85	0.29		
SI-Central - 14	250 CFM Compressor Diesel	Air Compressor	459.66	75	6	Diesel Tier 3	75	0.48		
SI-Central - 14	Trailer Conc Pump 100 CY HR	Pump	269.16	75	4	Diesel	200	0.74		
SI-Central - 14	Manitowoc 777 200 Ton Crane	Crane	50	75	1	Diesel	760	0.29		
SI-Central - 14	Manitowoc 999-275 Ton Crane	Crane	128.33	75	2	Diesel	900	0.29		
SI-Central - 15	Hydraulic 9 Ton Crane	Crane	50	7	7	Diesel	85	0.29		
SI-Central - 15	Hydraulic 40 Ton Crane	Crane	50	7	7	Diesel	300	0.29		
SI-Central - 15	CAT Forklift 5,500 LB	Aerial Lift	50	7	7	Diesel	63	0.31		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Staten Island - Central Tunnel Shaft
Options 1A, 1B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
SI-Central - 14	Axial Fan 114,000 CFM	60	75	50	40
SI-Central - 14	Electric Welder 400 AMP	204.8	75	15	41

Vehicle Inventory for Staten Island - Central Tunnel Shaft
Options 1A, 1B, 5A, 5 Options 1A, 1B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/Trip	# of Vehicles Trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
SI-Central - 1	Truck Flatbed 4 T Highway	Materials from Sacramento	2	119.0	1.2	102	51	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 1	Truck, Flatbed, 10T, Hwy	Grader and Scraper to and from Sacramento	2	4.7	1.2	4	2.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 1	Truck, Flatbed, 10T, Hwy	Crawler Tractor from Sacramento	1	1.2	1.2	1	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 2	Pickup 1/2T 2 WD	Materials from Sacramento	17	682.7	1.2	585	34	Staten Island Shaft to/from Sacramento	35	70	Hybrid Gasoline	
SI-Central - 2	Truck Flatbed 4 T Highway	Materials from Sacramento	17	682.7	1.2	585	34	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 2	Mechanic Truck	Materials from Sacramento	17	682.7	1.2	585	34	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 2	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement from Sacramento	17	199.5	1.2	171	10	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 2	Truck, Flatbed, 10T, Hwy	Crane, Trencher, & Other Equipment to and from Sacramento	2	7.0	1.2	6	3.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 3	Highway Dump Truck 18 CY	Materials from Sacramento	148	1686.5	1.2	1446	10	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 3	Truck End Dump 16-20cy Hwy	Soil Material in Covered Trucks from Twain Cities Complex	148	3299.3	0.7	4949	33	Staten Island Shaft to/from Twain Cities Complex	20	40	Diesel	
SI-Central - 3	Truck, Flatbed, 10T, Hwy	Grader and Roller to and from Sacramento	2	4.7	1.2	4	2.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 3	Truck, Flatbed, 10T, Hwy	Crawler Tractor to Sacramento	1	1.2	1.2	1	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 4	Truck, Flatbed, 10T, Hwy	Excavator to and from Sacramento	2	1.2	1.2	1	0.5	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 4	Truck, Flatbed, 10T, Hwy	Loader from Sacramento	1	1.2	1.2	1	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 4	Truck, Flatbed, 10T, Hwy	Rebar from Sacramento	1	1.2	1.2	1	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 5	Truck, Water, 4 kgal, Hwy	Recycled Water from Lodi	1	227.2	0.6	401	401.0	Staten Island Shaft to/from Lodi	17	34	Diesel	
SI-Central - 5	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road CBP	1	15.3	0.7	23	23	Staten Island Shaft to/from Lambert Road	20	40	Diesel	
SI-Central - 5	Truck Flatbed 4 T Highway	Rebar from Sacramento	1	14.0	1.2	12	12	Concrete Batch Plant Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 6	Truck Flatbed 4 T Highway	Rebar from Sacramento	40	14.0	1.2	12	0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 6	Truck, Flatbed, 10T, Hwy	Crane and Other Equipment to and from Sacramento	2	4.7	1.2	4	2.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 6	Truck, Flatbed, 10T, Hwy	Crane from Sacramento	1	1.2	1.2	1	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 6	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road CBP	40	370.0	0.7	555	14	Staten Island Shaft to/from Lambert Road Concrete Batch Plant	20	40	Diesel	
SI-Central - 7	Truck, Flatbed, 10T, Hwy	Rebar from Sacramento	1	29.2	1.2	25	25.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 7	Truck, Flatbed, 10T, Hwy	Loader to Sacramento	1	1.2	1.2	1	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 7	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	43	227.5	1.2	195	5	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 7	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road CBP	43	4.0	0.7	6	0	Staten Island Shaft to/from Lambert Road Concrete Batch Plant	20	40	Diesel	
SI-Central - 9	Truck Flatbed 4 T Highway	Rebar from Sacramento	54	8.2	1.2	7	0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 9	Truck, Flatbed, 10T, Hwy	Cranes to and from Sacramento	2	4.7	1.2	4	2.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 9	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road CBP	54	322.7	0.7	484	9	Staten Island Shaft to/from Lambert Road Concrete Batch Plant	20	40	Diesel	
SI-Central - 10	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	2.3	1.2	2	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 11	Truck Flatbed 4 T Highway	Rebar from Sacramento	6	1.2	1.2	1	0.2	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 11	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road CBP	6	23.3	0.7	35	6	Staten Island Shaft to/from Lambert Road Concrete Batch Plant	20	40	Diesel	
SI-Central - 12	Truck Flatbed 4 T Highway	Rebar from Sacramento	20	2.3	1.2	2	0.1	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 14	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road CBP	75	243.3	0.7	365	5	Staten Island Shaft to/from Lambert Road Concrete Batch Plant	20	40	Diesel	
SI-Central - 14	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	2.3	1.2	2	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 15	Highway Flatbed 10 Ton	Materials from Sacramento	7	50.0	1.2	43	6	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 15	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	2.3	1.2	2	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 15	Truck, Flatbed, 10T, Hwy	Crane to Sacramento	2	1.2	1.2	1	0.5	Staten Island Shaft to/from Sacramento	35	70	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site										Miles On-Site		
SI-Central - 4	CAT 730 Rear Dump	Dumper	13	18.0		not applicable	not applicable	on-site: assume 5 miles/hour		90	Diesel or Hybrid	
SI-Central - 6	CAT 730 Rear Dump	Dumper	40	238.4		not applicable	not applicable	on-site: assume 5 miles/hour		1182	Diesel or Hybrid	
SI-Central - 6	Articulated Rear Dump 22 CY/CAT 730	Dumper	40	211.0		not applicable	not applicable	on-site: assume 5 miles/hour		1055	Diesel or Hybrid	
SI-Central - 6	Concrete Pump Truck	Off-Highway Truck	40	422.0		not applicable	not applicable	on-site: assume 5 miles/hour		2110	Diesel	
SI-Central - 8	Trucking Off-Highway CAT 730	Dumpers	40	1155.0		not applicable	not applicable	on-site: assume 5 miles/hour		5775	Diesel	
SI-Central - 9	Concrete Pump Truck	Off-Highway Truck	54	76.0		not applicable	not applicable	on-site: assume 5 miles/hour		380	Diesel	

Employees Required to Staten Island - Central Tunnel Shaft
Options 1A, 1B

Code	Employee Type	Hours	# Work Hours/Day	# of Employees/Day	# of One-Way Employee Trips/Day	Trip Location (to/from)	Commute Miles/One-way Trip/Day	One-Way Commute Miles/Day	Commute Miles/ Total Trip/Day	Total Commute Miles/Day
SI-Central - 1	General Foreman	13.33	10	1		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 1	Dozer Operator	26.66	10	3		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 1	Grader Operator	26.66	10	3		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 1	Operator G4 Grade Check	13.33	10	1		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 1	Scrapper Operator	53.32	10	5		Stockton to/from Staten Island Shaft	26		52	
TOTAL SI-Central-1				13	27			693		1386
SI-Central - 2	Laborer G2 General	2048.01	10	205		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 2	Operator G3a Crane	682.67	10	68		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 2	Operator G3 BH Loader	682.67	10	68		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 2	Operating Engineer	682.67	10	68		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 2	Operator G4 Grade Check	682.67	10	68		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 2	Operator G4 Heavy Duty Mechanic	682.67	10	68		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 2	Operator G2 Plant Operator	1365.34	10	137		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 2	Teamster G1 Hwy	682.67	10	68		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 2	Teamster G2 Hwy	682.67	10	68		Stockton to/from Staten Island Shaft	26		52	
TOTAL SI-Central-2				819	1638			42599		85197
SI-Central - 3	Grade Setter / Checker	1686.53	10	169		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 3	Water Truck Highway	1686.53	10	169		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 3	Compactor Operator	1686.53	10	169		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 3	Dozer Operator	1686.53	10	169		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 3	Grader Operator	1686.53	10	169		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 3	Truck Driver	1686.53	10	169		Stockton to/from Staten Island Shaft	26		52	
TOTAL SI-Central-3				1012	2024			52620		105239
SI-Central - 4	Shifter	6	10	1		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 4	Lead Miner	6	10	1		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 4	Miner	6	10	1		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 4	Loader Operator	6	10	1		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 4	Excavator Operator	6	10	1		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 4	Truck Driver	18	10	2		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 4	Carpenter	426.54	10	43		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 4	Carpenter Foreman	106.64	10	11		Stockton to/from Staten Island Shaft	26		52	
TOTAL SI-Central-4				60	120			3126		6252
SI-Central - 5	General Laborer	10.9	10	1		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 5	Carpenter	21.8	10	2		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 5	Carpenter Foreman	5.45	10	1		Stockton to/from Staten Island Shaft	26		52	
TOTAL SI-Central-5				4	9			222		444
SI-Central - 6	General Laborer	1055	24	132		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 6	General Foreman	211	24	26		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 6	Mechanic Welder	422	24	53		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 6	Shaft Crane Operator	211	24	26		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 6	Crane Oiler	211	24	26		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 6	Truck Driver	240.54	24	30		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 6	Loader Operator	211	24	26		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 6	General Laborer	1266	24	158		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 6	General Foreman	211	24	26		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 6	Slurry Wall Consultant	211	24	26		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 6	Shifter	633	24	79		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 6	Lead Miner	211	24	26		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 6	Miner	1688	24	211		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 6	Hyd Crane Operator	422	24	53		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 6	Iron Worker Foreman	422	24	53		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 6	Iron Worker	2110	24	264		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 6	Shaft Crane Operator	211	24	26		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 6	Crane Oiler	211	24	26		Stockton to/from Staten Island Shaft	26		52	
TOTAL SI-Central-6				1270	2539			66024		132048
SI-Central - 7	Hydraulic Excavator to 3.5	235.5	24	29		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 7	Loader Operator	235.5	24	29		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 7	Excavator Operator	235.5	24	29		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 7	Hyd Track Drill	235.5	24	29		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 7	General Laborer	725.44	24	91		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 7	General Foreman	235.5	24	29		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 7	Carpenter	26.95	24	3		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 7	Carpenter Foreman	6.74	24	3		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 7	Iron Worker Foreman	5.47	24	3		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 7	Iron Worker	21.89	24	3		Stockton to/from Staten Island Shaft	26		52	
TOTAL SI-Central-7				250	500			13012		26025
SI-Central - 8	Shaft Crane Operator	231	24	29		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 8	Toplander	231	24	29		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 8	Crane Oiler	231	24	29		Stockton to/from Staten Island Shaft	26		52	
TOTAL SI-Central-8				87	173			4505		9009
SI-Central - 9	Diver Contractor	138.74	24	17		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 9	Shifter	166.12	24	21		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 9	Lead Miner	152.95	24	19		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 9	Miner	446.95	24	56		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 9	Shaft Crane Operator	111	24	14		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 9	Bottomlander	111	24	14		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 9	Hyd Crane Operator	112.47	24	14		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 9	Toplander	255	24	32		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 9	Iron Worker Foreman	147	24	18		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 9	Iron Worker	1176	24	147		Stockton to/from Staten Island Shaft	26		52	
TOTAL SI-Central-9				352	704			18312		36624
SI-Central - 10	Shifter	100	24	13		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 10	Lead Miner	100	24	13		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 10	Miner	800	24	100		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 10	Hyd Crane Operator	100	24	13		Stockton to/from Staten Island Shaft	26		52	
TOTAL SI-Central-10				138	275			7150		14300
SI-Central - 11	Shifter	35.2	10	4		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 11	Miner	119.6	10	12		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 11	Shaft Crane Operator	35.2	10	4		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 11	Toplander	35.2	10	4		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 11	Crane Oiler	35.2	10	4		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 11	Iron Worker	216	10	22		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 11	Iron Worker Foreman	27	10	3		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 11	Lead Miner	8.2	10	1		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 11	Mechanic Welder	8.2	10	1		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 11	Electrician	8.2	10	1		Stockton to/from Staten Island Shaft	26		52	
TOTAL SI-Central-11				53	107			2774		5547
SI-Central - 12	Shaft Crane Operator	118.67	10	12		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 12	Toplander	118.67	10	12		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 12	Bottomlander	118.67	10	12		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 12	Crane Oiler	118.67	10	12		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 12	Iron Worker	949.36	10	95		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 12	Iron Worker Foreman	118.67	10	12		Stockton to/from Staten Island Shaft	26		52	
TOTAL SI-Central-12				154	309			8022		16044
SI-Central - 13	Shifter	52	10	5		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 13	Lead Miner	52	10	5		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 13	Miner	416	10	42		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 13	Mechanic / Welder	52	10	5		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 13	Shaft Crane Operator	52	10	5		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 13	Toplander	52	10	5		Stockton to/from Staten Island Shaft	26		52	
SI-Central - 13	Bottomlander	52	10	5		Stockton to/from Staten Island Shaft	26		52	

TOTAL SI-Central-13				73	146		3786		7571
SI-Central - 14	Shifter	647.99	10	65	Stockton to/from Staten Island Shaft	26	52		
SI-Central - 14	Lead Miner	647.99	10	65	Stockton to/from Staten Island Shaft	26	52		
SI-Central - 14	Miner	4264.75	10	426	Stockton to/from Staten Island Shaft	26	52		
SI-Central - 14	Mechanic / Welder	788.49	10	79	Stockton to/from Staten Island Shaft	26	52		
SI-Central - 14	Electrician	264.86	10	26	Stockton to/from Staten Island Shaft	26	52		
SI-Central - 14	Hyd Crane Operator	264.8	10	26	Stockton to/from Staten Island Shaft	26	52		
SI-Central - 14	Shaft Crane Operator	178	10	18	Stockton to/from Staten Island Shaft	26	52		
SI-Central - 14	Toplander	178	10	18	Stockton to/from Staten Island Shaft	26	52		
SI-Central - 14	Bottomlander	50	10	5	Stockton to/from Staten Island Shaft	26	52		
SI-Central - 14	Crane Oiler	178	10	18	Stockton to/from Staten Island Shaft	26	52		
SI-Central - 14	Concrete Pump Operator	64.3	10	6	Stockton to/from Staten Island Shaft	26	52		
TOTAL SI-Central-14				753	1506		39146		78293
SI-Central - 15	Bullgang Foreman	50	10	5	Stockton to/from Staten Island Shaft	26	52		
SI-Central - 15	Bullgang Laborer	100	10	10	Stockton to/from Staten Island Shaft	26	52		
SI-Central - 15	Mechanic / Welder	50	10	5	Stockton to/from Staten Island Shaft	26	52		
SI-Central - 15	Hyd Crane Operator	100	10	10	Stockton to/from Staten Island Shaft	26	52		
SI-Central - 15	Flat Truck Driver	50	10	5	Stockton to/from Staten Island Shaft	26	52		
TOTAL SI-Central-15				35	70		1820		3640

Marine Inventory for Staten Island - Central Tunnel Shaft
Options 1A, 1B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Staten Island - Central Tunnel Shaft
Options 1A, 1B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Staten Island - Central Tunnel Shaft
Options 1A, 1B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Staten Island - Central Tunnel Shaft
Options 1A, 1B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
SI-Central - 1	12	2	6	6716	3358						
SI-Central - 3		148				74226	502				
SI-Central - 4		13		392	30						
SI-Central - 5		1				218	218				
SI-Central - 6		40		5268	132	5268	132				
SI-Central - 7		43				52	1				
SI-Central - 8		40		25420	636						
SI-Central - 9		54				4592	85				
SI-Central - 11		6				328	55				
SI-Central - 14		75				2134	28				
SI-Central - 14		75				1286	17				

**Demolition Assumptions for Staten Island - Central Tunnel Shaft
Options 1A, 1B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Charter Way Park and Ride**Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B**

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Excavation	CWPR-1	11/1/2026	11/12/2026	10	5	10
Culvert Pipe	CWPR-2	11/13/2026	11/13/2026	1	1	10
Subdrain System	CWPR-3	11/16/2026	11/16/2026	1	1	10
Road Base	CWPR-4	11/17/2026	11/19/2026	3	3	10
Asphalt Paving	CWPR-5	11/20/2026	11/24/2026	5	5	10
Electrical, Striping, and K-Rail Installation	CWPR-6	11/25/2026	11/25/2026	1	1	10

Acres**2.4**

Offroad Equipment (Fossil Fuel) Inventory for Charter Way Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day) (if known)	Fuel (gal/day) (if known)
CWPR-1	CAT D6LGPDozer w winch	Crawler Tractor	29	10	3	Diesel Tier 4 or Hybrid Dies	179		0.43	
CWPR-1	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	29	10	3	Diesel	384		0.38	
CWPR-2	Air Compressor 375 cfm	Air Compressor	3	1	3	Diesel Tier 4	122		0.48	
CWPR-2	CAT LOADER/HOE 416 E	Rubber Tired Loader	7	1	7	Diesel	78		0.36	
CWPR-2	Compactor, Plate, 22" w x 35"	Plate Compactor	3	1	3	Diesel	8.5		0.43	
CWPR-3	CAT LOADER/HOE 416 E	Rubber Tired Loader	1	1	1	Diesel	78		0.36	
CWPR-3	Compactor, Trench Roller, Vib 32"w	Roller	2	1	2	Diesel	20		0.38	
CWPR-4	CAT 14 M	Grader	24	3	8	Diesel	274		0.41	
CWPR-4	Water Pump, 4" Diesel	Pumps	24	3	8	Diesel	10		0.74	
CWPR-4	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	24	3	8	Diesel	156		0.38	
CWPR-5	CAT LOADER/HOE 416 E	Rubber Tired Loader	27.62	5	6	Diesel	78		0.36	
CWPR-5	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	28	5	6	Diesel or Hybrid	224		0.42	
CWPR-5	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	28	5	6	Diesel or Hybrid	137		0.38	
CWPR-5	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	28	5	6	Diesel or Hybrid	133		0.38	
CWPR-6	CAT LOADER/HOE 416 E	Rubber Tired Loader	2.27	1	2	Diesel	78		0.36	

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Charter Way Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
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NOT NEEDED

Vehicle Inventory for Charter Way Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint)	# day	Vehicle Hours	Hours/trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day)
Vehicle Use on Paved Roads --- and Not on Construction Site												
CWPR-1	Pickup, 1/2T, 2wd	Materials from Stockton	10	15	0.2	87	9	Charter Way PR to/from Stockton	5	10	Hybrid Gasoline	
CWPR-1	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	10	87	0.2	522	52	Charter Way PR to/from Stockton	5	10	Diesel	
CWPR-1	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	10	2	0.2	14	1	Charter Way PR to/from Stockton	5	10	Diesel	
CWPR-1	Truck, Flatbed, 10T, Hwy	Crawler Tractor & Excavator to and from Stockton	2	1	0.2	4	2.0	Charter Way PR to/from Stockton	5	10	Diesel	
CWPR-2	Truck, Flatbed, 10T, Hwy	Materials from Stockton	1	3	0.2	20	20	Charter Way PR to/from Stockton	5	10	Diesel	
CWPR-2	Truck, Water, 4 mpa, Hwy	Water from Lodi	1	2	0.5	3	3	Charter Way PR to/from Lodi	16	32	Diesel	
CWPR-2	Truck, End Dump, 10-13cy, Hwy	Gravel from Vernalis	1	1	0.9	1	21	Charter Way PR to/from Vernalis	26	52	Diesel	
CWPR-2	Truck, Flatbed, 10T, Hwy	HOE 416 E Loader from Stockton	1	0.2	0.2	1	1.0	Charter Way PR to/from Stockton	5	10	Diesel	
CWPR-2	Truck, Flatbed, 10T, Hwy	Plate Compactor to and from Stockton	2	0.3	0.2	2	1.0	Charter Way PR to/from Stockton	5	10	Diesel	
CWPR-3	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	1	2	0.2	9	9	Charter Way PR to/from Stockton	5	10	Diesel	
CWPR-3	Truck, End Dump, 10-13cy, Hwy	Gravel from Vernalis	1	1	0.9	1	21	Charter Way PR to/from Vernalis	26	52	Diesel	
CWPR-3	Truck, Flatbed, 10T, Hwy	Roller to and from Stockton	2	0.3	0.2	2	1.0	Charter Way PR to/from Stockton	5	10	Diesel	
CWPR-4	Pickup, 3/4T, 4wd	Materials from Stockton	3	24	0.2	147	49	Charter Way PR to/from Stockton	5	10	Hybrid Gasoline	
CWPR-4	Truck, End Dump, 10-13cy, Hwy	Base Rock from Vernalis	3	250	0.9	289	96	Charter Way PR to/from Vernalis	26	52	Diesel	
CWPR-4	Truck, Water, 4 mpa, Hwy	Water from Lodi	3	9	0.5	17	6	Charter Way PR to/from Lodi	16	32	Diesel	
CWPR-4	Truck, Flatbed, 10T, Hwy	Graber and Roller to and from Stockton	2	1	0.2	4	2.0	Charter Way PR to/from Stockton	5	10	Diesel	
CWPR-5	Truck & Bottom Dump, 21cy, 30T	Materials from Vernalis	5	166	0.9	191	38	Charter Way PR to/from Vernalis	26	52	Diesel Tier 4	
CWPR-5	Truck, Water, 4 mpa, Hwy	Water from Lodi	5	1	0.5	1	1	Charter Way PR to/from Lodi	16	32	Diesel	
CWPR-5	Truck & Bottom Dump, 21cy, 30T	Asphalt, Hot Mix Materials from Vernalis	5	146.5	0.9	169	34	Charter Way PR to/from Vernalis	26	52	Diesel Tier 4	
CWPR-5	Ready-Mix Concrete Truck	Concrete for Bus Parking Lot from Tracy	5	5.2	0.9	6	1	Charter Way PR to/from Vernalis	26	52	Diesel Tier 4	
CWPR-5	Truck, Flatbed, 10T, Hwy	Power and two Rollers to and from Stockton	2	1.0	0.2	6	3.0	Charter Way PR to/from Stockton	5	10	Diesel	
CWPR-6	Boom Truck, 12.5 Tn Boom	Materials from Stockton	1	2	0.2	14	14	Charter Way PR to/from Stockton	5	10	Diesel or Hybrid	
CWPR-6	Truck, Flatbed, 10T, Hwy	HOE 416 E Loader to Stockton	1	0.2	0.2	1	1.0	Charter Way PR to/from Stockton	5	10	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site												
CWPR-1	CAT 730 30T, Articulated End Dump	Dumpers	10	87	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		435	Diesel Tier 4 or Hybrid Diesel	

Employees Required to Charter Way Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Employee Type	Hours	# Work Hours/Day	# of Employee-Days	# of One-Way Employee Trips/Day	Trip Location (to/from)	Commute Miles/One-way Trip	One-Way Commute Miles/Day	Commute Miles/Total Trip/Day	Total Commute Miles/Day
CWPR-1	Operator G4 Dozer & Push Cat	29.03	10	3		Stockton to Charter Way PR	10		20	
CWPR-1	Operator G2 Excavator 3.5 to 7.0	29.03	10	3		Stockton to Charter Way PR	10		20	
CWPR-1	OPERATING ENGINEER FOREMAN	14.51	10	1		Stockton to Charter Way PR	10		20	
CWPR-1	Teamster G2 Hwy ED 6-8cy, Wate	87.08	10	9		Stockton to Charter Way PR	10		20	
CWPR-1	Teamster G3 ED 8-24cy, Water>7	87.08	10	9		Stockton to Charter Way PR	10		20	
TOTAL CWPR-1				25	49			493		987
CWPR-2	Laborer G1 Pipe layers	13.33	10	1		Stockton to Charter Way PR	10		20	
CWPR-2	Laborer Foreman	3.33	10	1		Stockton to Charter Way PR	10		20	
CWPR-2	Operator G3 BH-Loader>3/4cy	6.67	10	1		Stockton to Charter Way PR	10		20	
CWPR-2	Teamster G1 Hwy ED<6cy, Flatbed	5	10	1		Stockton to Charter Way PR	10		20	
CWPR-2	Teamster G2 Hwy ED 6-8cy, Water<7	1.67	10	1		Stockton to Charter Way PR	10		20	
TOTAL CWPR-2				5	11			107		213
CWPR-3	Laborer G1 Pipe layers	3	10	1		Stockton to Charter Way PR	10		20	
CWPR-3	Laborer G1 Power Tamper	1.5	10	1		Stockton to Charter Way PR	10		20	
CWPR-3	Operator G4 Loader <4.1cy	0.75	10	1		Stockton to Charter Way PR	10		20	
CWPR-3	Teamster G2 Hwy ED 6-8cy, Water<7	1.5	10	1		Stockton to Charter Way PR	10		20	
TOTAL CWPR-3				4	8			80		160
CWPR-4	Laborer G3 Flagman	48.86	10	5		Stockton to Charter Way PR	10		20	
CWPR-4	Operator G7 Roller, Compactor	24.43	10	2		Stockton to Charter Way PR	10		20	
CWPR-4	OPERATING ENGINEER FOREMAN	24.43	10	2		Stockton to Charter Way PR	10		20	
CWPR-4	Operator G4 Grade Check	24.43	10	2		Stockton to Charter Way PR	10		20	
CWPR-4	Operator G2 Finish Blade	24.43	10	2		Stockton to Charter Way PR	10		20	
CWPR-4	Operator G8 Generator	4.89	10	1		Stockton to Charter Way PR	10		20	
CWPR-4	Teamster G2 Hwy ED 6-8cy, Water<7	24.43	10	2		Stockton to Charter Way PR	10		20	
TOTAL CWPR-4				18	36			362		724
CWPR-5	Laborer G2 General	110.47	10	11		Stockton to Charter Way PR	10		20	
CWPR-5	Operator G5 Asphalt Roller	55.24	10	6		Stockton to Charter Way PR	10		20	
CWPR-5	Operator G3 BH-Loader>3/4cy	27.62	10	3		Stockton to Charter Way PR	10		20	
CWPR-5	OPERATING ENGINEER FOREMAN	27.62	10	3		Stockton to Charter Way PR	10		20	
CWPR-5	Operator G4 Grade Check	27.62	10	3		Stockton to Charter Way PR	10		20	
CWPR-5	Operator G5 Paver	27.62	10	3		Stockton to Charter Way PR	10		20	
CWPR-5	Teamster G2 Hwy ED 6-8cy, Water<7	13.81	10	1		Stockton to Charter Way PR	10		20	
TOTAL CWPR-5				29	58			580		1160
CWPR-6	Iron Worker-Rigger	2.27	10	1		Stockton to Charter Way PR	10		20	
CWPR-6	Laborer G2 General	9.09	10	1		Stockton to Charter Way PR	10		20	
CWPR-6	Operator G4a Boom truck<15 ton	2.27	10	1		Stockton to Charter Way PR	10		20	
CWPR-6	Operator G3 BH-Loader>3/4cy	2.27	10	1		Stockton to Charter Way PR	10		20	
CWPR-6	OPERATING ENGINEER FOREMAN	2.27	10	1		Stockton to Charter Way PR	10		20	
CWPR-6	Teamster G3 Boom Truck	2.27	10	1		Stockton to Charter Way PR	10		20	
TOTAL CWPR-6				6	12			120		240

Marine Inventory for Charter Way Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Charter Way Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

Helicopter Inventory for Charter Way Park and Ride

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Charter Way Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
CWPR-1	2.4	10	0.2	3193	319						
CWPR-4		3									
CWPR-5		5				3176	1059			136710	27342

Demolition Assumptions for Charter Way Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Rio Vista Park and Ride**Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B**

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	RVPR -1	11/20/2026	11/30/2026	9	5	10
Embankment	RVPR -2	12/1/2026	12/1/2026	1	1	10
Culvert Pipe	RVPR -3	12/2/2026	12/2/2026	1	1	10
Subdrain System	RVPR -4	12/3/2026	12/3/2026	1	1	10
Road Base	RVPR -5	12/4/2026	12/8/2026	5	5	10
Asphalt Paving	RVPR -6	12/9/2026	12/14/2026	5	5	10
Electrical, Striping, and K-Rail Installation	RVPR -7	12/15/2026	12/15/2026	1	1	10

Acres**3.1**

Offroad Equipment (Fossil Fuel) Inventory for Rio Vista Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
RVPR -1	CAT D6LGPDozer w winch	Crawler Tractor	63.95	9	7	Diesel Tier 4 or Hybrid Dies	179		0.43	
RVPR -1	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	63.95	9	7	Diesel	384		0.38	
RVPR -2	CAT D6LGPDozer w winch	Crawler Tractor	7.65	1	8	Diesel Tier 4 or Hybrid Dies	179		0.43	
RVPR -2	Disk, Towed	Off-Highway Tractor	7.65	1	8	Diesel	140		0.44	
RVPR -2	CAT 14 M	Grader	3.82	1	4	Diesel	274		0.41	
RVPR -2	Water Pump, 4" Diesel	Pumps	0.92	1	1	Diesel	10		0.74	
RVPR -2	CAT 815, Roller	Roller	7.65	1	8	Diesel	170		0.38	
RVPR -3	Air Compressor 375 cfm	Air Compressor	3.72	1	4	Diesel Tier 4	122		0.48	
RVPR -3	CAT LOADER/HOE 416 E	Rubber Tired Loader	7.44	1	7	Diesel	78		0.36	
RVPR -3	Compactor, Plate, 22" w x 35"	Plate Compactor	3.72	1	4	Diesel	8.5		0.43	
RVPR -4	CAT LOADER/HOE 416 E	Rubber Tired Loader	0.84	1	1	Diesel	78		0.36	
RVPR -4	Compactor, Trench Roller, Vib 32"w	Roller	1.68	1	2	Diesel	20		0.38	
RVPR -5	CAT 14 M	Grader	27.05	5	5	Diesel	274		0.41	
RVPR -5	Water Pump, 4" Diesel	Pumps	27.05	5	5	Diesel	10		0.74	
RVPR -5	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	27.05	5	5	Diesel	156		0.38	
RVPR -6	CAT LOADER/HOE 416 E	Rubber Tired Loader	31.18	5	6	Diesel	78		0.36	
RVPR -6	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	31.18	5	6	Diesel or Hybrid	224		0.42	
RVPR -6	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	31.18	5	6	Diesel or Hybrid	137		0.38	
RVPR -6	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	31.18	5	6	Diesel or Hybrid	133		0.38	
RVPR -7	CAT LOADER/HOE 416 E	Rubber Tired Loader	2.52	1	3	Diesel	78		0.36	

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Rio Vista Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
RVPR -2	Light Plant, 4 lite, 1000w, Tower/Mast	30.6 hours	1		

Vehicle Inventory for Rio Vista Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint w/o offsite)	# day	Vehicle Hours	Hours/Trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/100mi) (if known)	Fuel (gal/Day) (if known)
Vehicle Use on Paved Roads — and Not on Construction Site													
RVR-1	Truck, End Dump, 10-13ky, Hwy	Materials from Lodi	9	192	0.8	230	26	Rio Vista PR to/from Lodi	25	50	Diesel		
RVR-1	Pickup, 1/2T, 2wd	Materials from Lodi	9	32	0.8	38	4	Rio Vista PR to/from Lodi	25	50	Hybrid Gasoline		
RVR-1	Truck, End Dump, 10-13ky, Hwy	Materials from Lodi	9	18	0.8	15	2	Rio Vista PR to/from Lodi	25	50	Diesel		
RVR-1	Truck, Water, 4 mgal, Hwy	Water from Lodi	9	3	0.8	4	0	Rio Vista PR to/from Lodi	25	50	Diesel		
RVR-1	Truck, Flatbed, 10T, Hwy	Crawler Tractor from Lodi	1	1	0.8	1	1.0	Rio Vista PR to/from Lodi	25	50	Diesel		
RVR-1	Truck, Flatbed, 10T, Hwy	Excavator to and from Lodi	2	2	0.8	2	1.0	Rio Vista PR to/from Lodi	25	50	Diesel		
RVR-2	Pickup, 1/2T, 2wd	Materials from Lodi	1	8	0.8	9	9	Rio Vista PR to/from Lodi	25	50	Hybrid Gasoline		
RVR-2	Truck, End Dump, 16-20ky, Hwy	Pitrun Gravel from Lodi	1	116	0.8	139	139	Rio Vista PR to/from Lodi	25	50	Diesel		
RVR-2	Truck, Water, 4 mgal, Hwy	Water from Lodi	1	8	0.8	10	10	Rio Vista PR to/from Lodi	25	50	Diesel		
RVR-2	Truck, Flatbed, 10T, Hwy	Crawler Tractor to Lodi	1	1	0.8	1	1.0	Rio Vista PR to/from Lodi	25	50	Diesel		
RVR-2	Truck, Flatbed, 10T, Hwy	Grader from Lodi	1	1	0.8	1	1.0	Rio Vista PR to/from Lodi	25	50	Diesel		
RVR-2	Truck, Flatbed, 10T, Hwy	Tractor & Roller to and from Lodi	2	3	0.8	4	2.0	Rio Vista PR to/from Lodi	25	50	Diesel		
RVR-3	Truck, Flatbed, 10T, Hwy	Materials from Lodi	1	4	0.8	4	4	Rio Vista PR to/from Lodi	25	50	Diesel		
RVR-3	Truck, End Dump, 16-20ky, Hwy	Pitrun Gravel from Lodi	1	1	0.8	1	1	Rio Vista PR to/from Lodi	25	50	Diesel		
RVR-3	Truck, Flatbed, 10T, Hwy	HOE 436 E Loader from Lodi	1	1	0.8	1	1.0	Rio Vista PR to/from Lodi	25	50	Diesel		
RVR-3	Truck, Flatbed, 10T, Hwy	Plate Compactor to and from Lodi	2	2	0.8	2	1.0	Rio Vista PR to/from Lodi	25	50	Diesel		
RVR-4	Truck, End Dump, 10-13ky, Hwy	Materials from Lodi	1	2	0.8	2	2	Rio Vista PR to/from Lodi	25	50	Diesel		
RVR-4	Truck, End Dump, 16-20ky, Hwy	Pitrun Gravel from Lodi	1	1	0.8	1	1	Rio Vista PR to/from Lodi	25	50	Diesel		
RVR-4	Truck, Flatbed, 10T, Hwy	Roller to and from Lodi	2	2	0.8	2	1.0	Rio Vista PR to/from Lodi	25	50	Diesel		
RVR-5	Pickup, 1/4T, 4wd	Materials from Lodi	5	27	0.8	32	6	Rio Vista PR to/from Lodi	25	50	Hybrid Gasoline		
RVR-5	Truck, Water, 4 mgal, Hwy	Water from Lodi	5	17	0.8	20	4	Rio Vista PR to/from Lodi	25	50	Diesel		
RVR-5	Truck, End Dump, 16-20ky, Hwy	Base Rock from Lodi	5	267	0.8	320	64	Rio Vista PR to/from Lodi	25	50	Diesel		
RVR-5	Truck & Bottom Dump, 22cy, 30T	Asphalt, Hot Mix Materials from Lodi	5	159.2	0.8	191	38	Rio Vista PR to/from Lodi	25	50	Diesel Tier 4		
RVR-5	Truck, Flatbed, 10T, Hwy	Grader to Lodi	1	1	0.8	1	1.0	Rio Vista PR to/from Lodi	25	50	Diesel		
RVR-5	Truck, Flatbed, 10T, Hwy	Roller to and from Lodi	2	2	0.8	2	1.0	Rio Vista PR to/from Lodi	25	50	Diesel		
RVR-6	Truck, Water, 4 mgal, Hwy	Water from Lodi	5	1	0.8	1	1	Rio Vista PR to/from Lodi	25	50	Diesel		
RVR-6	Truck & Bottom Dump, 22cy, 30T	Asphalt, Hot Mix Materials from Lodi	5	159	0.8	191		Rio Vista PR to/from Lodi	25	50	Diesel Tier 4		
RVR-6	Truck, Flatbed, 10T, Hwy	Power and two Rollers to and from Lodi	2	5	0.8	6	3.0	Rio Vista PR to/from Lodi	25	50	Diesel		
RVR-7	Boom Truck, 12.5 Tn Boom	Materials from Lodi	1	3	0.8	3	3	Rio Vista PR to/from Lodi	25	50	Diesel or Hybrid		
RVR-7	Truck, Flatbed, 10T, Hwy	HOE 436 E Loader to Lodi	1	1	0.8	1	1.0	Rio Vista PR to/from Lodi	25	50	Diesel		
Vehicle Use on Unpaved/DIRT Surface (no access roads at park and ride lots) — on the Construction Site													
RVR-1	CAT 730 30T, Articulated End Dump	Dumpers	9	191.86	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		959	Diesel Tier 4 or Hybrid Diesel		
RVR-2	Cat 50mgal w/Cat 770, 512HP	Dumpers	1	3.82	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		19	Diesel		

Employees Required to Rio Vista Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip
RVPR -1	Operator G4 Dozer & Push Cat	63.95	10		Lodi to/from Rio Vista PR	25
RVPR -1	Operator G2 Excavator 3.5 to 7.0	63.95	10		Lodi to/from Rio Vista PR	25
RVPR -1	OPERATING ENGINEER FOREMAN	31.98	10		Lodi to/from Rio Vista PR	25
RVPR -1	Teamster G2 Hwy ED 6-8cy, Wate	191.86	10		Lodi to/from Rio Vista PR	25
RVPR -1	Teamster G3 ED 8-24cy, Water>7	191.86	10		Lodi to/from Rio Vista PR	25
TOTAL RVPR-1						
RVPR -2	Laborer G2 General	0.92	10		Lodi to/from Rio Vista PR	25
RVPR -2	Operator G5 Compactor w-blade	7.65	10		Lodi to/from Rio Vista PR	25
RVPR -2	Operator G4 Dozer & Push Cat	7.65	10		Lodi to/from Rio Vista PR	25
RVPR -2	OPERATING ENGINEER FOREMAN	7.65	10		Lodi to/from Rio Vista PR	25
RVPR -2	Operator G2 Finish Blade	3.82	10		Lodi to/from Rio Vista PR	25
RVPR -2	Teamster G2 Hwy ED 6-8cy, Water<7	3.82	10		Lodi to/from Rio Vista PR	25
RVPR -2	Teamster G3 ED 8-24cy, Water>7mga	3.82	10		Lodi to/from Rio Vista PR	25
TOTAL RVPR-2						
RVPR -3	Laborer G1 Pipe layers	14.89	10		Lodi to/from Rio Vista PR	25
RVPR -3	Laborer Foreman	3.72	10		Lodi to/from Rio Vista PR	25
RVPR -3	Operator G3 BH-Loader>3/4cy	7.44	10		Lodi to/from Rio Vista PR	25
RVPR -3	Teamster G1 Hwy ED<6cy, Flatbed	5.58	10		Lodi to/from Rio Vista PR	25
RVPR -3	Teamster G2 Hwy ED 6-8cy, Water<7	1.86	10		Lodi to/from Rio Vista PR	25
TOTAL RVPR-3						
RVPR -4	Laborer G1 Pipe layers	3.35	10		Lodi to/from Rio Vista PR	25
RVPR -4	Laborer G1 Power Tamper	1.68	10		Lodi to/from Rio Vista PR	25
RVPR -4	Operator G4 Loader <4.1cy	0.84	10		Lodi to/from Rio Vista PR	25
RVPR -4	Teamster G2 Hwy ED 6-8cy, Water<7	1.68	10		Lodi to/from Rio Vista PR	25
TOTAL RVPR-4						
RVPR -5	Laborer G3 Flagman	54.11	10		Lodi to/from Rio Vista PR	25
RVPR -5	Operator G7 Roller, Compactor	27.05	10		Lodi to/from Rio Vista PR	25
RVPR -5	OPERATING ENGINEER FOREMAN	27.05	10		Lodi to/from Rio Vista PR	25
RVPR -5	Operator G4 Grade Check	27.05	10		Lodi to/from Rio Vista PR	25
RVPR -5	Operator G2 Finish Blade	27.05	10		Lodi to/from Rio Vista PR	25
RVPR -5	Operator G8 Generator	5.41	10		Lodi to/from Rio Vista PR	25
RVPR -5	Teamster G2 Hwy ED 6-8cy, Water<7	27.05	10		Lodi to/from Rio Vista PR	25
TOTAL RVPR-5						
RVPR -6	Laborer G2 General	124.73	10		Lodi to/from Rio Vista PR	25
RVPR -6	Operator G5 Asphalt Roller	62.36	10		Lodi to/from Rio Vista PR	25
RVPR -6	Operator G3 BH-Loader>3/4cy	31.18	10		Lodi to/from Rio Vista PR	25
RVPR -6	OPERATING ENGINEER FOREMAN	31.18	10		Lodi to/from Rio Vista PR	25
RVPR -6	Operator G4 Grade Check	31.18	10		Lodi to/from Rio Vista PR	25
RVPR -6	Operator G5 Paver	31.18	10		Lodi to/from Rio Vista PR	25
RVPR -6	Teamster G2 Hwy ED 6-8cy, Water<7	15.59	10		Lodi to/from Rio Vista PR	25
TOTAL RVPR-6						
RVPR -7	Iron Worker-Rigger	2.52	10		Lodi to/from Rio Vista PR	25
RVPR -7	Laborer G2 General	10.1	10		Lodi to/from Rio Vista PR	25
RVPR -7	Operator G4a Boom truck<15 ton	2.52	10		Lodi to/from Rio Vista PR	25
RVPR -7	Operator G3 BH-Loader>3/4cy	2.52	10		Lodi to/from Rio Vista PR	25
RVPR -7	OPERATING ENGINEER FOREMAN	2.52	10		Lodi to/from Rio Vista PR	25
RVPR -7	Teamster G3 Boom Truck	2.52	10		Lodi to/from Rio Vista PR	25
TOTAL RVPR-7						

Marine Inventory for Rio Vista Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Rio Vista Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

Helicopter Inventory for Rio Vista Park and Ride

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Rio Vista Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

[illegible]

Demolition Assumptions for Rio Vista Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Bouldin I Levee - Central
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Construct Levee	Bouldin I Levee-C -1	2/28/2028	6/19/2028	96	5	10

Acres251

Offroad Equipment (Fossil Fuel) Inventory for Bouldin I Levee - Central
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
Bouldin I Levee-C -1	CAT 825H Compactor	Roller	352.49	96	4	Diesel	315	0.38		
Bouldin I Levee-C -1	CAT 980 Loader 7.5 CY	Rubber Tired Loader	704.98	96	7	Diesel	393	0.36		
Bouldin I Levee-C -1	CAT D8 Dozer	Crawler Tractor	704.98	96	7	Diesel	328	0.43		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Bouldin I Levee - Central
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
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NOT NEEDED

Vehicle Inventory for Bouldin I Levee - Central
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/Trip	# of Vehicles trip	One-Way Trip/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/kwh) (if known)	Fuel (gal/kwh) (if known)
Vehicle Use on Paved Roads — and Not on Construction Site													
Boulder / Laneve - C 1	Truck Flatbed 55T Hwy	Tractor / Loader - and Roller from and to Stockton	2	4	0.6	6	3.0	Stockton to/from Boulder Island	19	38	Diesel		
Boulder / Laneve - C 1	Truck End Dump 16-20cy Hwy	Soil Material in Covered Trucks from Twin Cities	96	13275	0.9	7625	184	Twin Cities Complex to/from Boulder	26	52	Diesel		

Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site

**Employees Required to Bouldin I Levee - Central
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B**

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip
Bouldin I Levee-C -1	Grade Setter / Checker	352.49	10		Lodi to/from Bouldin Island	14
Bouldin I Levee-C -1	Compactor	352.49	10		Lodi to/from Bouldin Island	14
Bouldin I Levee-C -1	Water Tanker Off road	352.49	10		Lodi to/from Bouldin Island	14
Bouldin I Levee-C -1	Loader Operator	704.98	10		Lodi to/from Bouldin Island	14
Bouldin I Levee-C -1	Compactor Operator	704.98	10		Lodi to/from Bouldin Island	14
Bouldin I Levee-C -1	Dozer Operator	704.98	10		Lodi to/from Bouldin Island	14
Bouldin I Levee-C -1	Scraper Operator	1409.96	10		Lodi to/from Bouldin Island	14
TOTAL Bouldin I Levee-C - 1						

Marine Inventory for Bouldin I Levee - Central
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Bouldin I Levee - Central
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Bouldin I Levee - Central
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Bouldin I Levee - Central
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
Bouldin I Levee-C -1	251	96	2.6			264370	2754				

**Demolition Assumptions for Bouldin I Levee - Central
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Bouldin I On-Site - Central Access Road
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	Bouldin OnSite-C Access -1	2/29/2028	3/10/2028	9	5	10
Embankment	Bouldin OnSite-C Access -2	3/13/2028	3/20/2028	5	5	10
Culvert Pipe	Bouldin OnSite-C Access -3	3/21/2028	3/22/2028	2	2	10
Bridge Over SR 12	Bouldin OnSite-C Access -4	4/16/2027	9/30/2027	120	5	10
Subdrain System	Bouldin OnSite-C Access -5	3/23/2028	4/7/2028	14	5	10
Road Base	Bouldin OnSite-C Access -6	4/10/2028	4/28/2028	14	5	10
Asphalt Paving	Bouldin OnSite-C Access -7	5/1/2028	5/5/2028	5	5	10
KRail and Signs	Bouldin OnSite-C Access -8	5/8/2028	5/8/2028	1	1	10
Intermediate Overlay	Bouldin OnSite-C Access -9	7/17/2030	7/22/2030	5	5	10
Final Overlay	Bouldin OnSite-C Access -10	8/20/2037	8/26/2037	5	5	10

Acres **17.4**

Offroad Equipment (Fossil Fuel) Inventory for Bouldin I On-Site - Central
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
Bouldin OnSite-C Access -1	CAT D6LGPDozer w winch	Crawler Tractor	167.6	9	19	Diesel Tier 4 or Hybrid Dies	179		0.43	
Bouldin OnSite-C Access -1	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	83.8	9	9	Diesel	384		0.38	
Bouldin OnSite-C Access -2	CAT D6LGPDozer w winch	Crawler Tractor	65.58	5	13	Diesel Tier 4 or Hybrid Dies	179		0.43	
Bouldin OnSite-C Access -2	Disk, Towed	Off-Highway Tractor	65.58	5	13	Diesel	140		0.44	
Bouldin OnSite-C Access -2	CAT 14 M	Grader	32.79	5	7	Diesel	274		0.41	
Bouldin OnSite-C Access -2	Water Pump, 4" Diesel	Pumps	7.87	5	2	Diesel	10		0.74	
Bouldin OnSite-C Access -2	CAT 815, Roller	Roller	65.58	5	13	Diesel	170		0.38	
Bouldin OnSite-C Access -3	Air Compressor 375 cfm	Air Compressor	11.44	2	6	Diesel Tier 4	122		0.48	
Bouldin OnSite-C Access -3	CAT LOADER/HOE 416 E	Rubber Tired Loader	22.89	2	11	Diesel	78		0.36	
Bouldin OnSite-C Access -3	Compactor, Plate, 22" w x 35"	Plate Compactor	11.44	2	6	Diesel	8.5		0.43	
Bouldin OnSite-C Access -4	Grove RT Crane 55T, 247 hp	Crane	171.43	120	1	Diesel	247		0.29	
Bouldin OnSite-C Access -4	Manitowoc 555 150T, 250' Boom	Crane	171.43	120	1	Diesel	340		0.29	
Bouldin OnSite-C Access -5	CAT LOADER/HOE 416 E	Rubber Tired Loader	26.53	14	2	Diesel	78		0.36	
Bouldin OnSite-C Access -5	Compactor, Trench Roller, Vib 32" w	Roller	53.05	14	4	Diesel	20		0.38	
Bouldin OnSite-C Access -6	CAT 14 M	Grader	116.03	14	8	Diesel	274		0.41	
Bouldin OnSite-C Access -6	Water Pump, 4" Diesel	Pumps	116.03	14	8	Diesel	10		0.74	
Bouldin OnSite-C Access -6	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	116.03	14	8	Diesel	156		0.38	
Bouldin OnSite-C Access -7	CAT LOADER/HOE 416 E	Rubber Tired Loader	89.14	5	18	Diesel	78		0.36	
Bouldin OnSite-C Access -7	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	89.14	5	18	Diesel or Hybrid	224		0.42	
Bouldin OnSite-C Access -7	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	89.14	5	18	Diesel or Hybrid	137		0.38	
Bouldin OnSite-C Access -7	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	89.14	5	18	Diesel or Hybrid	133		0.38	
Bouldin OnSite-C Access -8	Boom Truck, 12.5 Tn Boom	Crane	2.07	1	2	Diesel or Hybrid	100		0.29	
Bouldin OnSite-C Access -8	CAT LOADER/HOE 416 E	Rubber Tired Loader	2.07	1	2	Diesel	78		0.36	
Bouldin OnSite-C Access -9	CAT LOADER/HOE 416 E	Rubber Tired Loader	34.4	5	7	Diesel	78		0.36	
Bouldin OnSite-C Access -9	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	34.4	5	7	Diesel or Hybrid	224		0.42	
Bouldin OnSite-C Access -9	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	34.4	5	7	Diesel or Hybrid	137		0.38	
Bouldin OnSite-C Access -9	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	34.4	5	7	Diesel or Hybrid	133		0.38	
Bouldin OnSite-C Access -10	CAT LOADER/HOE 416 E	Rubber Tired Loader	34.4	5	7	Diesel	78		0.36	
Bouldin OnSite-C Access -10	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	34.4	5	7	Diesel or Hybrid	224		0.42	
Bouldin OnSite-C Access -10	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	34.4	5	7	Diesel or Hybrid	137		0.38	
Bouldin OnSite-C Access -10	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	34.4	5	7	Diesel or Hybrid	133		0.38	

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Bouldin I On-Site - Central
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
Bouldin OnSite-C Access -2	Light Plant, 4 lite, 1000w, Tower/Mast	262.3 hours	5		

Vehicle Inventory for Bouldin I On-Site - Central
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/Trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)	Fuel (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site													
Bouldin OnSite-C Access-1	Pickup, 1/2T, 2wd	Materials from Stockton	9	42	0.6	66	7	Stockton to/from Bouldin Island	19	38	Hybrid Gasoline		
Bouldin OnSite-C Access-1	Truck, Flatbed, 10T, Hwy	Doser from Stockton	1	1	0.6	1	1.0	Stockton to/from Bouldin Island	19	38	Diesel		
Bouldin OnSite-C Access-1	Truck, Flatbed, 10T, Hwy	Excavator to and from Stockton	2	1	0.6	2	1.0	Stockton to/from Bouldin Island	19	38	Diesel		
Bouldin OnSite-C Access-1	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	9	1558	0.6	2460	273	Stockton to/from Bouldin Island	19	38	Diesel		
Bouldin OnSite-C Access-2	Pickup, 1/2T, 2wd	Materials from Stockton	5	66	0.6	104	21	Stockton to/from Bouldin Island	19	38	Hybrid Gasoline		
Bouldin OnSite-C Access-2	Cat 10mgpl w/Cat 770, 511HP	Materials from Stockton	5	33	0.6	52	10	Stockton to/from Bouldin Island	19	38	Diesel		
Bouldin OnSite-C Access-2	Truck, Flatbed, 10T, Hwy	Doser to Stockton	1	1	0.6	1	1.0	Stockton to/from Bouldin Island	19	38	Diesel		
Bouldin OnSite-C Access-2	Truck, Flatbed, 10T, Hwy	Grader to and from Stockton	2	1	0.6	2	1.0	Stockton to/from Bouldin Island	19	38	Diesel		
Bouldin OnSite-C Access-2	Truck, Flatbed, 10T, Hwy	Roller to and from Stockton	2	1	0.6	2	1.0	Stockton to/from Bouldin Island	19	38	Diesel		
Bouldin OnSite-C Access-2	Truck, End Dump, 16-20cy, Hwy	Gravel from Lodi	5	587	0.5	1257	251	Lodi to/from Bouldin Island	14	28	Diesel		
Bouldin OnSite-C Access-3	Truck, Flatbed, 10T, Hwy	Materials from Stockton	2	11	0.6	18	9	Stockton to/from Bouldin Island	19	38	Diesel		
Bouldin OnSite-C Access-3	Truck, Flatbed, 10T, Hwy	Loader from Stockton	1	1	0.6	1	1.0	Stockton to/from Bouldin Island	19	38	Diesel		
Bouldin OnSite-C Access-3	Truck, Flatbed, 10T, Hwy	Plate Compactor to and from Stockton	2	1	0.6	2	1.0	Stockton to/from Bouldin Island	19	38	Diesel		
Bouldin OnSite-C Access-3	Truck, End Dump, 16-20cy, Hwy	Gravel from Lodi	2	1	0.5	2	1	Stockton to/from Bouldin Island	14	28	Diesel		
Bouldin OnSite-C Access-4	Pickup, 1/2T, 2wd	Materials from Stockton	120	171	0.6	271	2.3	Stockton to/from Bouldin Island	19	38	Hybrid Gasoline		
Bouldin OnSite-C Access-4	Truck, Flatbed, 4T, Hwy	Materials from Stockton	120	171	0.6	271	2.3	Stockton to/from Bouldin Island	19	38	Diesel		
Bouldin OnSite-C Access-4	Truck, Flatbed, 10T, Hwy	Two Caves from and to Stockton	2	3	0.6	4	2.0	Stockton to/from Bouldin Island	19	38	Diesel		
Bouldin OnSite-C Access-4	Truck, Flatbed, 4T, Hwy	Materials from Stockton	120	299	0.6	473	3.9	Stockton to/from Bouldin Island	19	38	Diesel		
Bouldin OnSite-C Access-5	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	14	53	0.6	84	6	Stockton to/from Bouldin Island	19	38	Diesel		
Bouldin OnSite-C Access-5	Truck, Flatbed, 10T, Hwy	Roller to and from Stockton	2	1	0.6	2	1.0	Stockton to/from Bouldin Island	19	38	Diesel		
Bouldin OnSite-C Access-5	Truck, Flatbed, 10T, Hwy	Roller to and from Stockton	2	1	0.6	2	1.0	Stockton to/from Bouldin Island	19	38	Diesel		
Bouldin OnSite-C Access-5	Truck, End Dump, 16-20cy, Hwy	Gravel from Lodi	14	4	0.5	8	1	Lodi to/from Bouldin Island	14	28	Diesel		
Bouldin OnSite-C Access-6	Pickup, 3/4T, 4wd	Materials from Stockton	14	116	0.6	183	13	Stockton to/from Bouldin Island	19	38	Hybrid Gasoline		
Bouldin OnSite-C Access-6	Truck, End Dump, 16-20cy, Hwy	Base Rock from Lodi	14	640	0.5	1371	98	Lodi to/from Bouldin Island	14	28	Diesel		
Bouldin OnSite-C Access-7	Truck, Flatbed, 10T, Hwy	Paver and two Rollers to and from Stockton	2	4	0.6	6	3.0	Stockton to/from Bouldin Island	19	38	Diesel		
Bouldin OnSite-C Access-7	Truck & Bottom Dump, 21cy, 30T	Asphalt from Lodi	5	254	0.5	545	109	Stockton to/from Bouldin Island	14	28	Diesel Tier 4		
Bouldin OnSite-C Access-8	Truck, Flatbed, 10T, Hwy	Loader to Stockton	1	1	0.6	1	1.0	Stockton to/from Bouldin Island	19	38	Diesel		
Bouldin OnSite-C Access-8	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	1	0.6	2	1.0	Stockton to/from Bouldin Island	19	38	Diesel		
Bouldin OnSite-C Access-9	Truck, Flatbed, 10T, Hwy	Paver and two Rollers to and from Stockton	2	4	0.6	6	3.0	Stockton to/from Bouldin Island	19	38	Diesel		
Bouldin OnSite-C Access-9	Truck & Bottom Dump, 21cy, 30T	Asphalt from Lodi	5	85	0.5	182	36	Stockton to/from Bouldin Island	14	28	Diesel Tier 4		
Bouldin OnSite-C Access-10	Truck, Flatbed, 10T, Hwy	Paver and two Rollers to and from Stockton	2	4	0.6	6	3	Stockton to/from Bouldin Island	19	38	Diesel		
Bouldin OnSite-C Access-10	Truck & Bottom Dump, 21cy, 30T	Asphalt from Lodi	5	85	0.5	182	36	Stockton to/from Bouldin Island	14	28	Diesel Tier 4		
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site													
Bouldin OnSite-C Access-1	CAT 730 30T, Articulated End Dump	Dumpers	9	419	not applicable	not applicable	not applicable	on site: assume 5 miles/hour		2095	Diesel Tier 4 or Hybrid Diesel		

Employees Required to Bouldin I On-Site - Central
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

CHANGES TO ONROAD IN GREEN HIGHLIGHT

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip
Bouldin OnSite-C Access -1	Operator G4 Dozer & Push Cat	167.6	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -1	Operator G2 Excavator 3.5 to 7.0	83.8	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -1	OPERATING ENGINEER FOREMAN	41.9	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -1	Teamster G3 ED 8-24cy, Water>7	419	10		Stockton to/from Bouldin Island	19
TOTAL Bouldin OnSite-C Access-1						
Bouldin OnSite-C Access -2	Laborer G2 General	7.87	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -2	Operator G5 Compactor w-blade	65.58	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -2	Operator G4 Dozer & Push Cat	65.58	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -2	OPERATING ENGINEER FOREMAN	65.58	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -2	Operator G2 Finish Blade	32.79	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -2	Teamster G2 Hwy ED 6-8cy, Water<7	32.79	10		Stockton to/from Bouldin Island	19
TOTAL Bouldin OnSite-C Access-2						
Bouldin OnSite-C Access -3	Laborer G1 Pipe layers	45.78	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -3	Laborer Foreman	11.44	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -3	Operator G3 BH-Loader>3/4cy	22.89	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -3	Teamster G1 Hwy ED<6cy, Flatbed	17.17	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -3	Teamster G2 Hwy ED 6-8cy, Water<7	5.72	10		Stockton to/from Bouldin Island	19
TOTAL Bouldin OnSite-C Access-3						
Bouldin OnSite-C Access -4	Iron Worker Journeyman Rebar/Stru	685.71	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -4	Laborer G3 Bridge labor	685.71	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -4	Operator G1a Cranes>100 t	171.43	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -4	Operator G2a Cranes 45 to 100 t	171.43	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -4	OPERATING ENGINEER FOREMAN	171.43	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -4	Pile Driver Wharf and Dock	685.71	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -4	Teamster G1 Hwy ED<6cy, Flatbed	171.43	10		Stockton to/from Bouldin Island	19
TOTAL Bouldin OnSite-C Access-4						
Bouldin OnSite-C Access -5	Laborer G1 Pipe layers	106.1	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -5	Laborer G1 Power Tamper	53.05	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -5	Operator G4 Loader <4.1cy	26.53	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -5	Teamster G2 Hwy ED 6-8cy, Water<7	53.05	10		Stockton to/from Bouldin Island	19
TOTAL Bouldin OnSite-C Access-5						
Bouldin OnSite-C Access -6	Laborer G3 Flagman	232.06	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -6	Operator G7 Roller, Compactor	116.03	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -6	OPERATING ENGINEER FOREMAN	116.03	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -6	Operator G4 Grade Check	116.03	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -6	Operator G2 Finish Blade	116.03	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -6	Operator G8 Generator	23.21	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -6	Teamster G2 Hwy ED 6-8cy, Water<7	116.03	10		Stockton to/from Bouldin Island	19
TOTAL Bouldin OnSite-C Access-6						
Bouldin OnSite-C Access -7	Laborer G2 General	356.55	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -7	Operator G5 Asphalt Roller	178.27	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -7	Operator G3 BH-Loader>3/4cy	89.14	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -7	OPERATING ENGINEER FOREMAN	89.14	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -7	Operator G4 Grade Check	89.14	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -7	Operator G5 Paver	89.14	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -7	Teamster G2 Hwy ED 6-8cy, Water<7	44.57	10		Stockton to/from Bouldin Island	19
TOTAL Bouldin OnSite-C Access-7						
Bouldin OnSite-C Access -8	Iron Worker-Rigger	2.07	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -8	Laborer G2 General	8.27	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -8	Operator G4a Boom truck<15 ton	2.07	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -8	Operator G3 BH-Loader>3/4cy	2.07	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -8	OPERATING ENGINEER FOREMAN	2.07	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -8	Teamster G3 Boom Truck	2.07	10		Stockton to/from Bouldin Island	19
TOTAL Bouldin OnSite-C Access-8						
Bouldin OnSite-C Access -9	Laborer G2 General	137.6	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -9	Operator G5 Asphalt Roller	68.8	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -9	Operator G3 BH-Loader>3/4cy	34.4	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -9	OPERATING ENGINEER FOREMAN	34.4	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -9	Operator G4 Grade Check	34.4	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -9	Operator G5 Paver	34.4	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -9	Teamster G2 Hwy ED 6-8cy, Water<7	17.2	10		Stockton to/from Bouldin Island	19
TOTAL Bouldin OnSite-C Access-9						
Bouldin OnSite-C Access -10	Laborer G2 General	137.6	10		Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -10	Operator G5 Asphalt Roller	68.8	10		Stockton to/from Bouldin Island	19

Bouldin OnSite-C Access -10	Operator G3 BH-Loader>3/4cy	34.4	10	Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -10	OPERATING ENGINEER FOREMAN	34.4	10	Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -10	Operator G4 Grade Check	34.4	10	Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -10	Operator G5 Paver	34.4	10	Stockton to/from Bouldin Island	19
Bouldin OnSite-C Access -10	Teamster G2 Hwy ED 6-8cy, Water<7	17.2	10	Stockton to/from Bouldin Island	19
TOTAL Bouldin OnSite-C Access-10					

Marine Inventory for Bouldin I On-Site - Central
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Bouldin I On-Site - Central
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

Helicopter Inventory for Bouldin I On-Site - Central
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

[illegible]

**Demolition Assumptions for Bouldin I On-Site - Central
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Bouldin I SR12 - Central Access Road
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	BouldinSR12-C Access -1	1/25/2027	2/18/2027	19	5	10
Embankment	BouldinSR12-C Access -2	2/19/2027	3/15/2027	19	5	10
Culvert Pipe	BouldinSR12-C Access -3	4/16/2027	4/21/2027	5	5	10
SR 12 Bridge Widening	BouldinSR12-C Access -4	4/16/2027	12/23/2027	181	5	10
Subdrain System	BouldinSR12-C Access -5	4/22/2027	6/16/2027	40	5	10
Road Base	BouldinSR12-C Access -6	6/17/2027	9/8/2027	60	5	10
Asphalt Paving	BouldinSR12-C Access -7	11/16/2027	12/23/2027	27	5	10
KRail and Signs	BouldinSR12-C Access -8	12/24/2027	2/28/2028	5	5	10
Intermediate Overlay	BouldinSR12-C Access -9	5/17/2030	7/16/2030	25	5	10
Final Overlay	BouldinSR12-C Access -10	6/22/2037	8/20/2037	43	5	10
Acres		70.8				

Offroad Equipment (Fossil Fuel) Inventory for Bouldin I SR12 - Central
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
BouldinSR12-C Access -1	CAT D6LGPDozer w winch	Crawler Tractor	1038.48	19	55	Diesel Tier 4 or Hybrid Dies	179	0.43		
BouldinSR12-C Access -1	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	519.24	19	27	Diesel	384	0.38		
BouldinSR12-C Access -2	CAT D6LGPDozer w winch	Crawler Tractor	1078.47	19	57	Diesel Tier 4 or Hybrid Dies	179	0.43		
BouldinSR12-C Access -2	Disk, Towed	Off-Highway Tractor	1078.47	19	57	Diesel	140	0.44		
BouldinSR12-C Access -2	CAT 14 M	Grader	539.24	19	28	Diesel	274	0.41		
BouldinSR12-C Access -2	Water Pump, 4" Diesel	Pumps	129.42	19	7	Diesel	10	0.74		
BouldinSR12-C Access -2	CAT 815, Roller	Roller	1078.47	19	57	Diesel	170	0.38		
BouldinSR12-C Access -3	Air Compressor 375 cfm	Air Compressor	70.94	5	14	Diesel Tier 4	122	0.48		
BouldinSR12-C Access -3	CAT LOADER/HOE 416 E	Rubber Tired Loader	141.89	5	28	Diesel	78	0.36		
BouldinSR12-C Access -3	Compactor, Plate, 22"w x 35"	Plate Compactor	70.94	5	14	Diesel	8.5	0.43		
BouldinSR12-C Access -5	CAT LOADER/HOE 416 E	Rubber Tired Loader	159.13	40	4	Diesel	78	0.36		
BouldinSR12-C Access -5	Compactor, Trench Roller, Vib 32"w	Roller	318.25	40	8	Diesel	20	0.38		
BouldinSR12-C Access -6	CAT 14 M	Grader	1336.13	60	22	Diesel	274	0.41		
BouldinSR12-C Access -6	Water Pump, 4" Diesel	Pumps	1336.13	60	22	Diesel	10	0.74		
BouldinSR12-C Access -6	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	1336.13	60	22	Diesel	156	0.38		
BouldinSR12-C Access -7	CAT LOADER/HOE 416 E	Rubber Tired Loader	647.18	27	24	Diesel	78	0.36		
BouldinSR12-C Access -7	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	647.18	27	24	Diesel or Hybrid	224	0.42		
BouldinSR12-C Access -7	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	647.18	27	24	Diesel or Hybrid	137	0.38		
BouldinSR12-C Access -7	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	647.18	27	24	Diesel or Hybrid	133	0.38		
BouldinSR12-C Access -8	Boom Truck, 12.5 Tn Boom	Crane	547.11	5	109	Diesel or Hybrid	100	0.29		
BouldinSR12-C Access -8	CAT LOADER/HOE 416 E	Rubber Tired Loader	547.11	5	109	Diesel	78	0.36		
BouldinSR12-C Access -9	CAT LOADER/HOE 416 E	Rubber Tired Loader	425.16	25	17	Diesel	78	0.36		
BouldinSR12-C Access -9	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	425.16	25	17	Diesel or Hybrid	224	0.42		
BouldinSR12-C Access -9	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	425.16	25	17	Diesel or Hybrid	137	0.38		
BouldinSR12-C Access -9	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	425.16	25	17	Diesel or Hybrid	133	0.38		
BouldinSR12-C Access -10	CAT LOADER/HOE 416 E	Rubber Tired Loader	425.16	43	10	Diesel	78	0.36		
BouldinSR12-C Access -10	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	425.16	43	10	Diesel or Hybrid	224	0.42		
BouldinSR12-C Access -10	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	425.16	43	10	Diesel or Hybrid	137	0.38		
BouldinSR12-C Access -10	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	425.16	43	10	Diesel or Hybrid	133	0.38		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Bouldin I SR12 - Central
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
BouldinSR12-C Access -	Light Plant, 4 lite, 1000w, Tower/Mast	4313.9	9		

Vehicle Inventory for Bouldin ISR12 - Central
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	Vehicle	Primary Trip Purpose/Location (within construction budgeted vs. others)	# day	Vehicle Hours	Hours/Trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)	Fuel (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site													
BouldinSR12 C Access-1	Pickup, 1/2T, 2wd	Materials from Stockton	19	260	0.6	410	22	Stockton to/from Bouldin Island	19	38	Hybrid Gasoline		
BouldinSR12 C Access-1	Truck, Flatbed, 10T, Hwy	Doser from Stockton	1	1	0.6	1	1.0	Stockton to/from Bouldin Island	19	38	Diesel		
BouldinSR12 C Access-1	Truck, Flatbed, 10T, Hwy	Excavator to and from Stockton	2	1	0.6	2	1.0	Stockton to/from Bouldin Island	19	38	Diesel		
BouldinSR12 C Access-1	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	19	1558	0.6	2460	129	Stockton to/from Bouldin Island	19	38	Diesel		
BouldinSR12 C Access-2	Pickup, 1/2T, 2wd	Materials from Stockton	19	1078	0.6	1703	90	Stockton to/from Bouldin Island	19	38	Hybrid Gasoline		
BouldinSR12 C Access-2	Truck, Flatbed, 10T, Hwy	Doser to Stockton	1	1	0.6	1	1.0	Stockton to/from Bouldin Island	19	38	Diesel		
BouldinSR12 C Access-2	Truck, Flatbed, 10T, Hwy	Grader to and from Stockton	2	1	0.6	2	1.0	Stockton to/from Bouldin Island	19	38	Diesel		
BouldinSR12 C Access-2	Truck, Flatbed, 10T, Hwy	Roller to and from Stockton	2	1	0.6	2	1.0	Stockton to/from Bouldin Island	19	38	Diesel		
BouldinSR12 C Access-2	Truck, End Dump, 16-20cy, Hwy	Gravel from Lodi	19	6458	0.5	13839	728	Lodi to/from Bouldin Island	14	28	Diesel		
BouldinSR12 C Access-3	Truck, Flatbed, 10T, Hwy	Materials from Stockton	5	71	0.6	112	22	Stockton to/from Bouldin Island	19	38	Diesel		
BouldinSR12 C Access-3	Truck, Flatbed, 10T, Hwy	Loader from Stockton	1	35	0.6	1	1.0	Stockton to/from Bouldin Island	19	38	Diesel		
BouldinSR12 C Access-3	Truck, Flatbed, 10T, Hwy	Plate Compactor to and from Stockton	2	1	0.6	2	1.0	Stockton to/from Bouldin Island	19	38	Diesel		
BouldinSR12 C Access-3	Truck, End Dump, 16-20cy, Hwy	Gravel from Lodi	5	6	0.5	12	2	Lodi to/from Bouldin Island	14	28	Diesel		
BouldinSR12 C Access-4	Truck, Flatbed, 4T, Hwy	Materials from Stockton	181	299	0.6	473	2.6	Stockton to/from Bouldin Island	19	38	Diesel		
BouldinSR12 C Access-4	Truck, Flatbed, 10T, Hwy	Two Cycles from and to Stockton	2	3	0.6	4	1.0	Stockton to/from Bouldin Island	19	38	Diesel		
BouldinSR12 C Access-5	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	40	318	0.6	503	13	Stockton to/from Bouldin Island	19	38	Diesel		
BouldinSR12 C Access-5	Truck, Flatbed, 10T, Hwy	Roller to and from Stockton	2	1	0.6	2	1.0	Stockton to/from Bouldin Island	19	38	Diesel		
BouldinSR12 C Access-5	Truck, Flatbed, 10T, Hwy	Roller to and from Stockton	2	1	0.6	2	1.0	Stockton to/from Bouldin Island	19	38	Diesel		
BouldinSR12 C Access-5	Truck, End Dump, 16-20cy, Hwy	Gravel from Lodi	40	30	0.5	43	1	Lodi to/from Bouldin Island	14	28	Diesel		
BouldinSR12 C Access-6	Pickup, 3/4T, 4wd	Materials from Stockton	60	1336	0.6	2110	35	Stockton to/from Bouldin Island	19	38	Hybrid Gasoline		
BouldinSR12 C Access-6	Truck, End Dump, 16-20cy, Hwy	Base Rock from Lodi	60	5664	0.5	12137	302	Lodi to/from Bouldin Island	14	28	Diesel		
BouldinSR12 C Access-7	Truck, Flatbed, 10T, Hwy	Paver and two Rollers to and from Stockton	2	4	0.6	6	3.0	Stockton to/from Bouldin Island	19	38	Diesel		
BouldinSR12 C Access-7	Truck, Bottom Dump, 21cy, 30T	Asphalt from Lodi	27	1846	0.5	3955	146	Lodi to/from Bouldin Island	14	28	Diesel Tier 4		
BouldinSR12 C Access-8	Truck, Flatbed, 10T, Hwy	Loader to Stockton	1	1	0.6	1	1.0	Stockton to/from Bouldin Island	19	38	Diesel		
BouldinSR12 C Access-8	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	1	0.6	2	1.0	Stockton to/from Bouldin Island	19	38	Diesel		
BouldinSR12 C Access-9	Truck, Flatbed, 10T, Hwy	Paver and two Rollers to and from Stockton	2	4	0.6	6	3.0	Stockton to/from Bouldin Island	19	38	Diesel		
BouldinSR12 C Access-7	Truck, Bottom Dump, 21cy, 30T	Asphalt from Lodi	25	1047	0.5	2244	90	Lodi to/from Bouldin Island	14	28	Diesel Tier 4		
BouldinSR12 C Access-10	Truck, Flatbed, 10T, Hwy	Paver and two Rollers to and from Stockton	2	4	0.6	6	3	Stockton to/from Bouldin Island	19	38	Diesel		
BouldinSR12 C Access-10	Truck, Bottom Dump, 21cy, 30T	Asphalt from Lodi	43	1047	0.5	2244	52	Lodi to/from Bouldin Island	14	28	Diesel Tier 4		
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site													
BouldinSR12 C Access-1	CAT 730 30T, Articulated End Dump	Dumpers	19	1038.48	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		5192	Diesel Tier 4 or Hybrid Diesel		

**Employees Required to Bouldin I SR12 - Central
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B**

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip
BouldinSR12-C Access -1	Operator G4 Dozer & Push Cat	1038.48	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -1	Operator G2 Excavator 3.5 to 7.0	519.24	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -1	OPERATING ENGINEER FOREMAN	259.62	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -1	Teamster G2 Hwy ED 6-8cy, Wate	1557.73	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -1	Teamster G3 ED 8-24cy, Water>7	1038.48	10		Stockton to/from Bouldin Island	19
TOTAL BouldinSR12-C Access-1						
BouldinSR12-C Access -2	Laborer G2 General	129.42	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -2	Operator G5 Compactor w-blade	1078.47	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -2	Operator G4 Dozer & Push Cat	1078.47	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -2	OPERATING ENGINEER FOREMAN	1078.47	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -2	Operator G2 Finish Blade	539.24	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -2	Teamster G2 Hwy ED 6-8cy, Water<7	1078.47	10		Stockton to/from Bouldin Island	19
TOTAL BouldinSR12-C Access-2						
BouldinSR12-C Access -3	Laborer G1 Pipe layers	283.78	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -3	Laborer Foreman	70.94	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -3	Operator G3 BH-Loader>3/4cy	141.89	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -3	Teamster G1 Hwy ED<6cy, Flatbed	106.42	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -3	Teamster G2 Hwy ED 6-8cy, Water<7	35.47	10		Stockton to/from Bouldin Island	19
TOTAL BouldinSR12-C Access-3						
BouldinSR12-C Access -5	Laborer G1 Pipe layers	636.5	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -5	Laborer G1 Power Tamper	318.25	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -5	Operator G4 Loader <4.1cy	159.13	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -5	Teamster G2 Hwy ED 6-8cy, Water<7	318.25	10		Stockton to/from Bouldin Island	19
TOTAL BouldinSR12-C Access-5						
BouldinSR12-C Access -6	Laborer G3 Flagman	2672.26	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -6	Operator G7 Roller, Compactor	1336.13	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -6	OPERATING ENGINEER FOREMAN	1336.13	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -6	Operator G4 Grade Check	1336.13	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -6	Operator G2 Finish Blade	1336.13	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -6	Operator G8 Generator	267.23	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -6	Teamster G2 Hwy ED 6-8cy, Water<7	1336.13	10		Stockton to/from Bouldin Island	19
TOTAL BouldinSR12-C Access-6						
BouldinSR12-C Access -7	Laborer G2 General	2588.73	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -7	Operator G5 Asphalt Roller	1294.36	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -7	Operator G3 BH-Loader>3/4cy	647.18	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -7	OPERATING ENGINEER FOREMAN	647.18	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -7	Operator G4 Grade Check	647.18	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -7	Operator G5 Paver	647.18	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -7	Teamster G2 Hwy ED 6-8cy, Water<7	323.59	10		Stockton to/from Bouldin Island	19
TOTAL BouldinSR12-C Access-7						
BouldinSR12-C Access -8	Iron Worker-Rigger	547.11	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -8	Laborer G2 General	2188.43	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -8	Operator G4a Boom truck<15 ton	547.11	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -8	Operator G3 BH-Loader>3/4cy	547.11	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -8	OPERATING ENGINEER FOREMAN	547.11	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -8	Teamster G3 Boom Truck	547.11	10		Stockton to/from Bouldin Island	19
TOTAL BouldinSR12-C Access-8						
BouldinSR12-C Access -9	Laborer G2 General	1700.63	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -9	Operator G5 Asphalt Roller	850.32	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -9	Operator G3 BH-Loader>3/4cy	425.16	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -9	OPERATING ENGINEER FOREMAN	425.16	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -9	Operator G4 Grade Check	425.16	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -9	Operator G5 Paver	425.16	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -9	Teamster G2 Hwy ED 6-8cy, Water<7	212.58	10		Stockton to/from Bouldin Island	19
TOTAL BouldinSR12-C Access-9						
BouldinSR12-C Access -10	Laborer G2 General	1700.63	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -10	Operator G5 Asphalt Roller	850.32	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -10	Operator G3 BH-Loader>3/4cy	425.16	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -10	OPERATING ENGINEER FOREMAN	425.16	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -10	Operator G4 Grade Check	425.16	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -10	Operator G5 Paver	425.16	10		Stockton to/from Bouldin Island	19
BouldinSR12-C Access -10	Teamster G2 Hwy ED 6-8cy, Water<7	212.58	10		Stockton to/from Bouldin Island	19
TOTAL BouldinSR12-C Access-10						

Marine Inventory for Bouldin I SR12 - Central
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Bouldin I SR12 - Central
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

Helicopter Inventory for Bouldin I SR12 - Central
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Bouldin I SR12 - Central
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
BouldinSR12-C Access -1	70.8	19	3.7	62309	3279	215694	11352			3203550	118650
BouldinSR12-C Access -2		19									
BouldinSR12-C Access -6		60									
BouldinSR12-C Access -7		27									
BouldinSR12-C Access -9		25									
BouldinSR12-C Access -10		43				11613	194			1817550	42269

**Demolition Assumptions for Bouldin I SR12 - Central
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Bouldin Island - Central Tunnel Shaft
Options 1A, 1B

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Mobilize	Bouldin I-Central - 1	7/19/2028	9/12/2028	39	5	10
Mangement, Engineering, & Field Labor	Bouldin I-Central - 2	7/19/2028	3/10/2036	2012	5	10
Clear and Grub	Bouldin I-Central - 3	9/13/2028	10/10/2028	19	5	10
Ground Improvement, Grading, & Compaction at Shaft & Segment Storage Area	Bouldin I-Central - 4	9/13/2028	10/30/2029	295	5	10
		10/10/2029	8/12/2030	220	5	10
Ground Improvement, Grading, & Compaction at RTM Storage Area	Bouldin I-Central - 5					10
Raise Shaft Pad	Bouldin I-Central - 6	3/14/2029	2/26/2030	250	5	10
Excavate, Set Strips, & Concrete for Shaft & Segment Areas	Bouldin I-Central - 7	10/31/2029	12/18/2029	35	5	10
Place Guide Walls Concrete	Bouldin I-Central - 8	2/27/2030	3/22/2030	18	5	10
Excavate Slurry Wall, Place Concrete & Rebar, Slurry Wall, Remove Guide Wall, & add Top Beam	Bouldin I-Central - 9	3/25/2030	7/18/2030	85	5	10
Excavate Shaft	Bouldin I-Central - 10	7/19/2030	10/16/2030	66	5	10
Place Tremie Seal Rebar, Cooling Pipes, & Seal	Bouldin I-Central - 11	10/17/2030	11/13/2030	28	7	24
Dewater Shaft	Bouldin I-Central - 12	11/14/2030	11/20/2030	10	7	24
Place TBM Cradle Rebar and Cradle Pour	Bouldin I-Central - 13	11/21/2030	12/3/2030	10	5	10
Breakout Slurry Wall for TBM	Bouldin I-Central - 14	12/4/2030	12/31/2030	20	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	Bouldin I-Central - 15	1/1/2031	3/25/2031	60	5	10
Erect Gantry Crane	Bouldin I-Central - 16	3/26/2031	4/16/2031	16	5	10
TBM Assembly including Shaft Utilities	Bouldin I-Central - 17	4/17/2031	12/5/2031	167	5	10
Tunneling Operations including Equipment Delivery	Bouldin I-Central - 18	4/17/2031	12/25/2035	1469	6	20
Remove TBM and Tunnel Equipment	Bouldin I-Central - 19	12/26/2035	2/6/2036	31	5	10
Remove Equipment from Site	Bouldin I-Central - 20	2/7/2036	3/10/2036	31	5	10
Final Access to RTM Storage Area	Bouldin I-Central - 21	3/11/2036	3/13/2036	3	3	10
Site Restoration	Bouldin I-Central - 22	3/14/2036	9/26/2036	141	5	10

Total Site Acres **338**

**Offroad Equipment (Fossil Fuel) Inventory for Bouldin Island - Central Tunnel Shaft
Options 1A, 1B**

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
Bouldin I-Central - 1	Hydraulic 9 Ton Crane	Crane	400	39	10	Diesel	85	0.29		
Bouldin I-Central - 1	Hydraulic 40 Ton Crane	Crane	400	39	10	Diesel	300	0.29		
Bouldin I-Central - 1	CAT Forklift 5,500 LB	Aerial Lift	400	39	10	Diesel	63	0.31		
Bouldin I-Central - 3	CAT D8 Dozer	Crawler Tractor	1018	19	54	Diesel Tier 4 or Hybrid Diesel	179	0.43		
Bouldin I-Central - 3	Grader 16H - 16' Blade	Grader	1018	19	54	Diesel	285	0.41		
Bouldin I-Central - 3	623G Scraper Elevate 21 CY	Scaper	2036	19	107	Diesel	359	0.48		
Bouldin I-Central - 4	Air Compressor 375 CFM	Air Compressor	6880	295	23	Diesel Tier 4	122	0.48		
Bouldin I-Central - 4	Grove RT Crane 30T	Crane	6880	295	23	Diesel	160	0.29		
Bouldin I-Central - 4	DMM Deep Soil Mixer	Bore Drill Rigs	2950	295	10	Diesel	522	0.5		
Bouldin I-Central - 4	DMM Grout Mix Plant	Other Industrial Equipmen	6880	295	23	Diesel	500	0.34		
Bouldin I-Central - 4	Portable 90 Kw Diesel	Generators	295	295	1	Diesel Tier 4	158	0.74		
Bouldin I-Central - 4	Case 590 SupN Loader	Rubber Tired Loaders	6880	295	23	Diesel	110	0.36		
Bouldin I-Central - 4	Water Pump 4" Electric	Pumps	6880	295	23	Diesel	10	0.74		
Bouldin I-Central - 4	CAT 825H Compactor	Rollers	122	295	0	Diesel	145	0.38		
Bouldin I-Central - 4	CAT CB-634D Vibratory 84"	Rollers	122	295	0	Diesel	315	0.38		
Bouldin I-Central - 4	CAT Grader 16H	Grader	122	295	0	Diesel	285	0.41		
Bouldin I-Central - 4	CAT 980 Loader 7.5 CY	Grader	122	295	0	Diesel	285	0.41		
Bouldin I-Central - 4	CAT D8 Dozer	Crawler Tractor	122	295	0	Diesel Tier 4 or Hybrid Diesel	179	0.43		
Bouldin I-Central - 5	Air Compressor 375 CFM	Air Compressor	3547	220	16	Diesel Tier 4	122	0.48		
Bouldin I-Central - 5	Grove RT Crane 30T	Crane	3547	220	16	Diesel	160	0.29		
Bouldin I-Central - 5	DMM Deep Soil Mixer	Bore Drill Rigs	3547	220	16	Diesel	522	0.5		
Bouldin I-Central - 5	DMM Grout Mix Plant	Other Industrial Equipmen	3547	220	16	Diesel	500	0.34		
Bouldin I-Central - 5	Portable 90 Kw Diesel	Generators	220	220	1	Diesel Tier 4	158	0.74		
Bouldin I-Central - 5	Case 590 SupN Loader	Rubber Tired Loaders	3547	220	16	Diesel	110	0.36		
Bouldin I-Central - 5	Water Pump 4" Electric	Pumps	3547	220	16	Diesel	10	0.74		
Bouldin I-Central - 5	CAT 825H Compactor	Rollers	202	220	1	Diesel	145	0.38		
Bouldin I-Central - 5	CAT CB-634D Vibratory 84"	Rollers	202	220	1	Diesel	315	0.38		
Bouldin I-Central - 5	CAT Grader 16H	Grader	202	220	1	Diesel	285	0.41		
Bouldin I-Central - 5	CAT 980 Loader 7.5 CY	Grader	202	220	1	Diesel	285	0.41		
Bouldin I-Central - 5	CAT D8 Dozer	Crawler Tractor	202	220	1	Diesel Tier 4 or Hybrid Diesel	179	0.43		
Bouldin I-Central - 5	Hydraulic 9 Ton Crane	Crane	63	220	0	Diesel	85	0.29		
Bouldin I-Central - 6	CAT CB-634D Vibratory 84"	Rollers	5781.6	250	23	Diesel	145	0.38		
Bouldin I-Central - 6	CAT Grader 16H	Graders	5781.6	250	23	Diesel	285	0.41		
Bouldin I-Central - 6	CAT D8 Dozer	Crawler Tractor	5781.6	250	23	Diesel	328	0.43		
Bouldin I-Central - 7	Hydraulic 9 Ton Crane	Crane	226	35	6	Diesel	85	0.29		
Bouldin I-Central - 8	CAT Hyd Excavator 1CY	Excavator	9.6	18	1	Diesel	138	0.38		
Bouldin I-Central - 8	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	9.6	18	1	Diesel or Hybrid	130	0.36		
Bouldin I-Central - 9	Manitowoc 777 200 Ton Crane	Crane	1086	85	13	Diesel	760	0.29		
Bouldin I-Central - 9	1600 CFM Compressor Diesel	Air Compressor	543	85	6	Diesel Tier 4	540	0.48		
Bouldin I-Central - 9	Hydraulic 55 Ton Crane	Crane	1086	85	13	Diesel	350	0.29		
Bouldin I-Central - 9	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	923	85	11	Diesel or Hybrid	130	0.36		
Bouldin I-Central - 9	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	543	85	6	Diesel	8	0.56		
Bouldin I-Central - 9	Slurry Wall Techniwell	Pumps	543	85	6	Diesel	500	0.74		
Bouldin I-Central - 9	CAT Hyd Excavator 1CY	Excavator	396	85	5	Diesel	138	0.38		
Bouldin I-Central - 9	Hydraulic Excavator to 3.5 tons = Kobelco SK485	Excavator	380	85	4	Diesel	345	0.38		
Bouldin I-Central - 9	250 CFM Compressor Diesel	Air Compressor	30	85	0	Diesel Tier 3	75	0.48		
Bouldin I-Central - 9	Hydraulic 9 Ton Crane	Crane	328	85	4	Diesel	85	0.29		
Bouldin I-Central - 9	Hydraulic 40 Ton Crane	Crane	16	85	0	Diesel	300	0.29		
Bouldin I-Central - 9	CAT Forklift 5,500 LB	Aerial Lift	16	85	0	Diesel	63	0.31		
Bouldin I-Central - 9	Heavy Duty Mechanic Welder	Welder	543	85	6	Diesel	400	0.45		
Bouldin I-Central - 10	Manitowoc 777 200 Ton Crane	Crane	708	66	11	Diesel	760	0.29		
Bouldin I-Central - 11	Manitowoc 777 200 Ton Crane	Crane	233	28	8	Diesel	760	0.29		
Bouldin I-Central - 11	Hydraulic 40 Ton Crane	Crane	80	28	3	Diesel	300	0.29		
Bouldin I-Central - 11	Hydraulic 25 Ton Crane	Crane	198.65	28	7	Diesel	100	0.29		
Bouldin I-Central - 12	Hydraulic 15 Ton Crane	Crane	100	10	10	Diesel	85	0.29		
Bouldin I-Central - 12	Dewater Pump 6"	Pump	400	10	40	Diesel	50	0.74		
Bouldin I-Central - 12	150 KW Diesel Generator	Generator	100	10	10	Diesel Tier 4	183	0.74		
Bouldin I-Central - 13	Manitowoc 777 200 Ton Crane	Crane	92.3	10	9	Diesel	760	0.29		
Bouldin I-Central - 13	250 CFM Compressor Diesel	Air Compressor	21.3	10	2	Diesel Tier 3	75	0.48		
Bouldin I-Central - 13	Trailer Conc Pump 100 CY HR	Pump	21.3	10	2	Diesel	200	0.74		
Bouldin I-Central - 14	Manitowoc 777 200 Ton Crane	Crane	305.35	20	15	Diesel	760	0.29		
Bouldin I-Central - 14	250 CFM Compressor Diesel	Air Compressor	305.35	20	15	Diesel Tier 3	75	0.48		
Bouldin I-Central - 15	Manitowoc 777 200 Ton Crane	Crane	693.16	60	12	Diesel	760	0.29		
Bouldin I-Central - 15	250 CFM Compressor Diesel	Air Compressor	594.98	60	10	Diesel Tier 3	75	0.48		
Bouldin I-Central - 15	Trailer Conc Pump 100 CY HR	Pump	292.58	60	5	Diesel	200	0.74		
Bouldin I-Central - 16	Hydraulic 25 Ton Crane	Crane	160	16	10	Diesel	100	0.29		
Bouldin I-Central - 16	Truck Crane Lattice Boom 90T	Crane	160	16	10	Diesel Tier 4	300	0.29		
Bouldin I-Central - 16	1600 CFM Compressor Diesel	Air Compressor	160	16	10	Diesel Tier 4	540	0.48		
Bouldin I-Central - 16	Telescope RT Forklift 5500	Forklift	160	16	10	Diesel	63	0.2		
Bouldin I-Central - 16	Heavy Duty Mechanic Welder	Welder	160	16	10	Diesel	400	0.45		
Bouldin I-Central - 17	250 CFM Compressor Diesel	Air Compressor	2300	167	14	Diesel Tier 3	75	0.48		
Bouldin I-Central - 17	Hydraulic 40 Ton Crane	Crane	900	167	5	Diesel	300	0.29		
Bouldin I-Central - 18	Hydraulic 9 Ton Crane	Crane	12730	1469	9	Diesel	85	0.29		
Bouldin I-Central - 18	Hydraulic 40 Ton Crane	Crane	12730	1469	9	Diesel	300	0.29		
Bouldin I-Central - 18	CAT Forklift 5,500 LB	Aerial Lift	12730	1469	9	Diesel	63	0.31		
Bouldin I-Central - 18	CAT 980 Loader 7.5 CY	Grader	25680	1469	17	Diesel	285	0.41		
Bouldin I-Central - 18	250 CFM Compressor Diesel	Air Compressor	24889	1469	17	Diesel Tier 3	75	0.48		
Bouldin I-Central - 18	Grout Pump	Cement & Mortar Mix	1218	1469	1	Diesel	500	0.56		
Bouldin I-Central - 18	Grout Mixer	Cement & Mortar Mix	1218	1469	1	Diesel	70	0.56		
Bouldin I-Central - 19	Manitowoc 777 200 Ton Crane	Crane	715	31	23	Diesel	760	0.29		
Bouldin I-Central - 19	Hydraulic 55 Ton Crane	Crane	715	31	23	Diesel	350	0.29		
Bouldin I-Central - 19	CAT Forklift 5,500 LB	Aerial Lift	610	31	20	Diesel	63	0.31		
Bouldin I-Central - 20	1600 CFM Compressor Diesel	Air Compressor	100	31	3	Diesel Tier 4	540	0.48		
Bouldin I-Central - 20	Hydraulic 25 Ton Crane	Crane	100	31	3	Diesel	100	0.29		
Bouldin I-Central - 20	Truck Crane Lattice Boom 90T	Crane	100	31	3	Diesel Tier 4	300	0.29		
Bouldin I-Central - 20	CAT Forklift 5,500 LB	Aerial Lift	560	31	18	Diesel	63	0.31		

Bouldin I-Central - 20	Heavy Duty Mechanic Welder	Welder	100	31	3	Diesel	400	0.45
Bouldin I-Central - 21	CAT D6LGPDozer w winch	Crawler Tractor	30	3	10	Diesel or Hybrid	179	0.43
Bouldin I-Central - 21	CAT 14 M	Grader	30	3	10	Diesel	274	0.41
Bouldin I-Central - 21	Water Pump 4" Electric	Pumps	30	3	10	Diesel	10	0.74
Bouldin I-Central - 21	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	30	3	10	Diesel	158	0.38
Bouldin I-Central - 21	Cat 613 C Self Loading Scraper	Scraper	60	3	20	Diesel	187	0.48
Bouldin I-Central - 22	CAT 390 MASS EXC	Excavator	560	141	4	Diesel	534	0.38
Bouldin I-Central - 22	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	1400	141	10	Diesel	345	0.38
Bouldin I-Central - 22	CAT 12 M	Grader	10	141	0	Diesel	173	0.41
Bouldin I-Central - 22	CAT D9R, Dozer w ripper	Crawler Tractor	80	141	1	Diesel	410	0.43
Bouldin I-Central - 22	Cat 6 mgal w/ CAT 725 Tractor, 320hp	Crawler Tractor	580	141	4	Diesel	320	0.43
Bouldin I-Central - 22	Farm Tractor, All Wheel Drive, 285 HP	Off-Highway Tractor	330	141	2	Diesel	80	0.44
Bouldin I-Central - 22	CAT 966 Gil Wheel Loader	Rubber Tired Loader	10	141	0	Diesel	170	0.36
Bouldin I-Central - 22	CAT D8Rii, Dozer w winch	Crawler Tractor	960	141	7	Diesel	310	0.43
Bouldin I-Central - 22	CAT 631G Scraper, Conventional	Scraper	960	141	7	Diesel	515	0.48
Bouldin I-Central - 22	Hydro Mulcher, 18 HP	Pump	140	141	1	Diesel	25	0.29

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

**Offroad Equipment (Electric) Inventory for Bouldin Island - Central Tunnel Shaft
Options 1A, 1B**

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
Bouldin I-Central - 17	Gantry Crane	1150	167	0.25	2
Bouldin I-Central - 17	Axial Fan 114,000 CFM	1650	167	50	494
Bouldin I-Central - 18	Axial Fan 114,000 CFM	224548	1469	50	7,643
Bouldin I-Central - 18	Gantry Crane	46364	1469	0.25	8
Bouldin I-Central - 19	Gantry Crane	610	31	0.25	5
Bouldin I-Central - 20	Gantry Crane	460	31	0.25	4

Electricity for TBM Operations included in the Summary Workbook

Vehicle Inventory for Bouldin Island - Central Tunnel Shaft
Options 1A, 1B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
Bouldin I-Central - 1	Truck, Flatbed, 10T, Hwy	Materials from Stockton	39	400.0	0.6	632	16.2	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 1	Truck, Flatbed, 10T, Hwy	Two Cranes and Forklift from and to Stockton	2	3.8	0.6	6	3.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 1	Truck, Flatbed, 10T, Hwy	Materials from Stockton	39	18.4	0.6	29	0.7	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 3	Truck, Flatbed, 10T, Hwy	Dozer and Grader from Stockton	1	1.3	0.6	2	2.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 3	Truck, Flatbed, 10T, Hwy	Scraper from and to Stockton	2	1.3	0.6	2	1.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 4	Pickup 1/2T 2 WD	Materials from Stockton	295	6880.0	0.6	10863	36.8	Bouldin Island Shaft to/from Stockton	19	38	Hybrid Gasoline	
Bouldin I-Central - 4	Truck Flatbed 4 T Highway	Materials from Stockton	295	6880.0	0.6	10863	36.8	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 4	Mechanic Truck	Materials from Stockton	295	6880.0	0.6	10863	36.8	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 4	Truck, Flatbed, 10T, Hwy	Crane, two Loaders, two Rollers, and Grader from Stockton	1	3.8	0.6	6	6.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 4	Truck Flatbed 4 T Highway	Materials from Stockton	295	414.2	0.6	654	2.2	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 4	Concrete Transit Mix Truck* 12cy	Concrete for Ground Improvement from Stockton	295	675.8	0.6	1067	3.6	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 5	Pickup 1/2T 2 WD	Materials from Stockton	220	3547.0	0.6	5601	25.5	Bouldin Island Shaft to/from Stockton	19	38	Hybrid Gasoline	
Bouldin I-Central - 5	Truck Flatbed 4 T Highway	Materials from Stockton	220	3547.0	0.6	5601	25.5	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 5	Mechanic Truck	Materials from Stockton	220	3547.0	0.6	5601	25.5	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 5	Truck, Flatbed, 10T, Hwy	Crane, two Loaders, and Refiler to Stockton	1	2.5	0.6	4	4.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 5	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	0.6	0.6	1	1.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 5	Concrete Transit Mix Truck* 12cy	Concrete for Ground Improvement from Stockton	220	561.8	0.6	887	4.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 6	Highway Dump Truck 18 CY	Materials from Stockton	250	5781.6	0.6	9129	36.5	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 6	Truck, Flatbed, 10T, Hwy	Two Dozers, Roller, and three Graders to Stockton	1	3.8	0.6	6	6.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 6	Truck* End Dump* 16-20cy* Hwy	Solid Material in Covered Trucks from Twin Cities Complex	250	14699.5	0.9	16961	67.8	Bouldin Island Shaft to/from Twin Cities Complex	26	52	Diesel	
Bouldin I-Central - 7	Truck Flatbed 4 T Highway	Materials from Stockton	35	20.9	0.6	33	0.9	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 7	Truck Flatbed 4 T Highway	Rebar from Sacramento	35	10.9	1.4	8	0.2	Bouldin Island Shaft to/from Sacramento	41	82	Diesel	
Bouldin I-Central - 7	Concrete Transit Mix Truck* 12cy	Concrete from Lodi	35	277.7	0.5	595	17.0	Bouldin Island Shaft to/from Lodi	14	28	Diesel	
Bouldin I-Central - 8	Truck Flatbed 4 T Highway	Materials from Stockton	18	20.9	0.6	33	1.8	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 8	Truck Flatbed 4 T Highway	Rebar from Sacramento	18	1.4	1.4	1	0.1	Bouldin Island Shaft to/from Sacramento	41	82	Diesel	
Bouldin I-Central - 8	Concrete Transit Mix Truck* 12cy	Concrete from Lodi	18	16.8	0.5	36	2.0	Bouldin Island Shaft to/from Lodi	14	28	Diesel	
Bouldin I-Central - 9	Truck, Flatbed, 10T, Hwy	Materials from Stockton	85	16.0	0.6	25	0.3	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 9	Truck, Flatbed, 10T, Hwy	Two Cranes and Forklift from Stockton	1	1.9	0.6	3	3.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 9	Truck, Flatbed, 10T, Hwy	Two Sectors, Crane, and Loader from and to Stockton	2	5.1	0.6	8	4.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 9	Truck Flatbed 4 T Highway	Materials from Stockton	85	20.9	0.6	33	0.4	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 9	Truck Flatbed 4 T Highway	Rebar from Sacramento	85	102.5	1.4	75	0.9	Bouldin Island Shaft to/from Sacramento	41	82	Diesel	
Bouldin I-Central - 9	Concrete Transit Mix Truck* 12cy	Concrete from Lodi	85	675.3	0.5	1447	17.0	Bouldin Island Shaft to/from Lodi	14	28	Diesel	
Bouldin I-Central - 9	Highway Dump Truck 18 CY	Surry Wall Bentonite from Sacramento	85	232.3	1.4	170	2.0	Bouldin Island Shaft to/from Sacramento	41	82	Diesel	
Bouldin I-Central - 10	Concrete Transit Mix Truck* 12cy	Concrete from Lodi	66	460.1	0.5	986	14.9	Bouldin Island Shaft to/from Lodi	14	28	Diesel	
Bouldin I-Central - 11	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	0.6	0.6	1	1.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 11	Truck Flatbed 4 T Highway	Materials from Stockton	28	20.9	0.6	33	1.2	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 11	Truck Flatbed 4 T Highway	Rebar from Sacramento	28	20.5	1.4	15	0.5	Bouldin Island Shaft to/from Sacramento	41	82	Diesel	
Bouldin I-Central - 11	Concrete Transit Mix Truck* 12cy	Concrete from Lodi	28	586.1	0.5	1256	44.9	Bouldin Island Shaft to/from Lodi	14	28	Diesel	
Bouldin I-Central - 12	Truck, Flatbed, 10T, Hwy	Crane from and to Stockton	2	1.3	0.6	2	1.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 13	Truck Flatbed 4 T Highway	Materials from Stockton	10	20.9	0.6	33	3.3	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 13	Truck Flatbed 4 T Highway	Rebar from Sacramento	10	2.7	1.4	2	0.2	Bouldin Island Shaft to/from Sacramento	41	82	Diesel	
Bouldin I-Central - 13	Concrete Transit Mix Truck* 12cy	Concrete from Lodi	10	42.0	0.5	90	9.0	Bouldin Island Shaft to/from Lodi	14	28	Diesel	
Bouldin I-Central - 14	Truck Flatbed 4 T Highway	Rebar from Sacramento	20	6.8	1.4	5	0.3	Bouldin Island Shaft to/from Sacramento	41	82	Diesel	
Bouldin I-Central - 15	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	0.6	0.6	1	1.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 15	Truck Flatbed 4 T Highway	Materials from Stockton	60	20.9	0.6	33	0.6	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 15	Concrete Transit Mix Truck* 12cy	Concrete from Lodi	60	231.0	0.5	495	8.3	Bouldin Island Shaft to/from Lodi	14	28	Diesel	
Bouldin I-Central - 16	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	0.6	0.6	1	1.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 16	Truck, Flatbed, 10T, Hwy	Crane from and to Stockton	2	1.3	0.6	2	1.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 17	Truck, Flatbed, 10T, Hwy	Pre Cast Segments from Stockton	167	1221.1	0.6	2086	12.5	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 18	Truck, Flatbed, 10T, Hwy	Two Cranes to Stockton	1	1.3	0.6	2	2.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 18	Truck, Flatbed, 10T, Hwy	Loader from and to Stockton	2	1.3	0.6	2	1.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 18	Truck Flatbed 4 T Highway	Materials from Stockton	1469	198.2	0.6	313	0.2	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 18	Truck, Flatbed, 10T, Hwy	Pre Cast Segments from Stockton	1469	34479.9	0.6	54442	37.1	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 19	Truck, Flatbed, 10T, Hwy	Two Cranes from and to Stockton	2	2.5	0.6	4	2.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 20	Truck, Flatbed, 10T, Hwy	Forklift to Stockton	1	0.6	0.6	1	1.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 20	Truck, Flatbed, 10T, Hwy	Two Cranes from and to Stockton	2	2.5	0.6	4	2.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 21	Pickup 1/2T 2 WD	Materials from Stockton	3	30.0	0.6	47	15.8	Bouldin Island Shaft to/from Stockton	19	38	Hybrid Gasoline	
Bouldin I-Central - 21	Truck, Flatbed, 10T, Hwy	Roller to Stockton	1	0.6	0.6	1	1.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I-Central - 21	Truck, Flatbed, 10T, Hwy	Tractor, Grader, Roller, and Scraper from and to Stockton	2	5.1	0.6	8	4.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	

Bouldin + Central - 21	Highway Dump Truck 18 CY	Base Rock from Lodi	3	25.2	0.5	54	18.0	Bouldin Island Shaft to/from Lodi	14	28	Diesel
Bouldin + Central - 22	Pickup 1/2T 2 WD	Materials from Stockton	141	560.0	0.6	884	6.3	Bouldin Island Shaft to/from Stockton	19	38	Hybrid Gasoline
Bouldin + Central - 22	Truck, Flatbed, 10T, Hwy	Scraper from and to Stockton	2	1.3	0.6	2	1.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel
Bouldin + Central - 22	Truck, Flatbed, 10T, Hwy	Two Excavators, Grader, 4 Tractors, Loader, and Scraper from and to Stockton	2	11.4	0.6	18	9.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel
Bouldin + Central - 22	Truck Flatbed 4 T Highway	Materials from Stockton	141	55.1	0.6	87	0.6	Bouldin Island Shaft to/from Stockton	19	38	Diesel
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site											
Bouldin + Central - 5	Concrete Pump Truck	Off-Highway Truck	220	464.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2320		Diesel
Bouldin + Central - 7	Concrete Pump Truck	Off-Highway Truck	35	280.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1400		Diesel
Bouldin + Central - 8	CAT 730 Rear Dump	Dumper	18	155	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	775		Diesel or Hybrid
Bouldin + Central - 9	CAT 730 Rear Dump	Dumper	85	619	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3995		Diesel or Hybrid
Bouldin + Central - 9	Articulated Rear Dump 22 CY/CAT 730	Dumper	85	543.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2715		Diesel or Hybrid
Bouldin + Central - 9	Concrete Pump Truck	Off-Highway Truck	85	1086.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	5430		Diesel
Bouldin + Central - 10	CAT 730 Rear Dump	Dumper	66	3542	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	17710		Diesel or Hybrid
Bouldin + Central - 11	Concrete Pump Truck	Off-Highway Truck	28	197.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	987		Diesel
Bouldin + Central - 22	CAT 740 40T, Articulated End dump	Dumper	141	280.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1400		Diesel or Hybrid
Bouldin + Central - 22	Truck, End Dump, 10-13cv. Hwy	Dumper	141	6720.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	33600		Diesel

Employees Required to Bouldin Island - Central Tunnel Shaft
Options 1A, 1B

Code	Employee Type	Hours	# Work Hours/Day	# of Employees-Days	# of One-Way Employee Trips/Day	Trip Location (to/from)	Commute Miles/ One-way Trip/Day	Total Commute Miles/Day
Bouldin I-Central - 1	Bullgang Foreman	400	10	40		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 1	Bullgang Laborer	800	10	80		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 1	Mechanic / Welder	400	10	40		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 1	Hyd Crane Operator	800	10	80		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 1	Flat Truck Driver	400	10	40		Lodi to/from Bouldin Island Shaft	14	
TOTAL Bouldin I-Central-1				280	560			7840
Bouldin I-Central - 2	Project Manager	12960	10	1296		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 2	Office Manager	12960	10	1296		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 2	Safety Manager	12960	10	1296		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 2	QC Manager	12960	10	1296		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 2	Geotechnical Manager	12960	10	1296		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 2	Environmental Manager	12960	10	1296		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 2	Project Engineer	12960	10	1296		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 2	Cost Engineer	12960	10	1296		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 2	Field Engineer	9720	10	972		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 2	Safety Engineer	25920	10	2592		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 2	Schedule Engineer	6480	10	648		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 2	Shift Engineers	25920	10	2592		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 2	QC Technician	6480	10	648		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 2	Survey Party Chief	12960	10	1296		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 2	Survey Rod Man	12960	10	1296		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 2	Tunnel Superintendent	12960	10	1296		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 2	Tunnel Walkers	25920	10	2592		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 2	Equipment Superintendent	12960	10	1296		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 2	Electrical Superintendent	12960	10	1296		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 2	General Superintendent	12960	10	1296		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 2	Concrete Superintendent	6480	10	648		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 2	Purchasing Agent	12960	10	1296		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 2	Runner	12960	10	1296		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 2	Payroll Clerk	12960	10	1296		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 2	Office Administrator	12960	10	1296		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 2	Accountant	12960	10	1296		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 2	EMT	12960	10	1296		Lodi to/from Bouldin Island Shaft	14	
TOTAL Bouldin I-Central-2				36612	73224			1025136
Bouldin I-Central - 3	General Foreman	509	10	51		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 3	Dozer Operator	1018	10	102		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 3	Grader Operator	1018	10	102		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 3	Operator G4 Grade Check	509	10	51		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 3	Scraper Operator	2036	10	204		Lodi to/from Bouldin Island Shaft	14	
TOTAL Bouldin I-Central-3				509	1018			14252
Bouldin I-Central - 4	Laborer G2 General	20640	10	2064		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 4	Operator G3a Crane	6880	10	688		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 4	Operator G3 BH Loader	6880	10	688		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 4	Operating Engineer	6880	10	688		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 4	Operator G4 Grade Check	6880	10	688		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 4	Operator G4 Heavy Duty Mechanic	6880	10	688		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 4	Operator G2 Plant Operator	13760	10	1376		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 4	Teamster G1 Hwy	6880	10	688		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 4	Teamster G2 Hwy	6880	10	688		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 4	Loader Operator	122	10	12		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 4	General Laborer	244	10	24		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 4	Flagger	244	10	24		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 4	General Foreman	122	10	12		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 4	Compactor Operator	244	10	24		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 4	Dozer Operator	122	10	12		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 4	Grader Operator	122	10	12		Lodi to/from Bouldin Island Shaft	14	
TOTAL Bouldin I-Central-4				8378	16756			234584
Bouldin I-Central - 5	Laborer G2 General	10641	10	1064		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 5	Operator G3a Crane	3547	10	355		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 5	Operator G3 BH Loader	3547	10	355		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 5	Operating Engineer	3547	10	355		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 5	Operator G4 Grade Check	3547	10	355		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 5	Operator G4 Heavy Duty Mechanic	3547	10	355		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 5	Operator G2 Plant Operator	7094	10	709		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 5	Teamster G1 Hwy	3547	10	355		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 5	Teamster G2 Hwy	3547	10	355		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 5	Grade Setter / Checker	202	10	20		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 5	Water Tanker Off road	202	10	20		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 5	Loader Operator	202	10	20		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 5	General Laborer	1074	10	107		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 5	Flagger	404	10	40		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 5	General Foreman	202	10	20		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 5	Compactor Operator	404	10	40		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 5	Dozer Operator	202	10	20		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 5	Grader Operator	202	10	20		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 5	Hyd Crane Operator	375	10	38		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 5	Carpenter	1180	10	118		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 5	Carpenter Foreman	179	10	18		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 5	Iron Worker Foreman	312	10	31		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 5	Iron Worker	3120	10	312		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 5	Truck Driver	464	10	46		Lodi to/from Bouldin Island Shaft	14	
TOTAL Bouldin I-Central-5				5129	10258			143606
Bouldin I-Central - 6	Grade Setter / Checker	5781.6	10	578		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 6	Compactor Operator	5781.6	10	578		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 6	Dozer Operator	5781.6	10	578		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 6	Grader Operator	5781.6	10	578		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 6	Truck Driver	5781.6	10	578		Lodi to/from Bouldin Island Shaft	14	
TOTAL Bouldin I-Central-6				2891	5782			80942
Bouldin I-Central - 7	Hyd Crane Operator	226	10	23		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 7	General Laborer	366	10	37		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 7	Carpenter	712	10	71		Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 7	Carpenter Foreman	108	10	11		Lodi to/from Bouldin Island Shaft	14	

Bouldin I-Central - 7	Iron Worker Foreman	188	10	19	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 7	Iron Worker	1880	10	188	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 7	Truck Driver	280	10	28	Lodi to/from Bouldin Island Shaft	14	
TOTAL Bouldin I-Central-7				376	752		10528
Bouldin I-Central - 8	Shifter	9.6	10	1	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 8	Lead Miner	9.6	10	1	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 8	Miner	9.6	10	1	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 8	Loader Operator	9.6	10	1	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 8	Excavator Operator	9.6	10	1	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 8	Truck Driver	152.93	10	15	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 8	Carpenter	684	10	68	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 8	Carpenter Foreman	171	10	17	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 8	General Laborer	16	10	2	Lodi to/from Bouldin Island Shaft	14	
TOTAL Bouldin I-Central-8				107	215		3007
Bouldin I-Central - 9	General Laborer	7173.76	10	717	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 9	General Foreman	1466	10	147	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 9	Mechanic Welder	559	10	56	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 9	Shaft Crane Operator	1086	10	109	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 9	Crane Oiler	1086	10	109	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 9	Truck Driver	619.02	10	62	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 9	Hyd Crane Operator	1118	10	112	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 9	Loader Operator	923	10	92	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 9	Slurry Wall Consultant	543	10	54	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 9	Shifter	1629	10	163	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 9	Lead Miner	543	10	54	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 9	Miner	4344	10	434	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 9	Iron Worker Foreman	1104.3	10	110	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 9	Iron Worker	5503.2	10	550	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 9	Excavator Operator	396	10	40	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 9	Bullgang Foreman	16	10	2	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 9	Bullgang Laborer	32	10	3	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 9	Flat Truck Driver	16	10	2	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 9	Carpenter	84.92	10	8	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 9	Carpenter Foreman	21.23	10	2	Lodi to/from Bouldin Island Shaft	14	
TOTAL Bouldin I-Central-9				2826	5653		79138
Bouldin I-Central - 10	Diver Contractor	41.18	10	4	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 10	Shaft Crane Operator	708	10	71	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 10	Toplander	708	10	71	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 10	Crane Oiler	708	10	71	Lodi to/from Bouldin Island Shaft	14	
TOTAL Bouldin I-Central-10				217	433		6063
Bouldin I-Central - 11	Shifter	362.66	24	45	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 11	Miner	943.3	24	118	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 11	Iron Worker Foreman	313	24	39	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 11	Iron Worker	2504	24	313	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 11	Shaft Crane Operator	233	24	29	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 11	Toplander	553	24	69	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 11	Bottomlander	233	24	29	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 11	Hyd Crane Operator	278.65	24	35	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 11	Diver Contractor	9.14	24	3	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 11	Lead Miner	49.66	24	6	Lodi to/from Bouldin Island Shaft	14	
TOTAL Bouldin I-Central-11				687	1374		19230
Bouldin I-Central - 12	Shifter	100	24	13	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 12	Lead Miner	100	24	13	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 12	Miner	800	24	100	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 12	Hyd Crane Operator	100	24	13	Lodi to/from Bouldin Island Shaft	14	
TOTAL Bouldin I-Central-12				138	275		3850
Bouldin I-Central - 13	Shifter	92.3	10	9	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 13	Miner	312.4	10	31	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 13	Shaft Crane Operator	92.3	10	9	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 13	Toplander	92.3	10	9	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 13	Crane Oiler	92.3	10	9	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 13	Iron Worker	568	10	57	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 13	Iron Worker Foreman	71	10	7	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 13	Lead Miner	21.3	10	2	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 13	Mechanic Welder	21.3	10	2	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 13	Electrician	21.3	10	2	Lodi to/from Bouldin Island Shaft	14	
TOTAL Bouldin I-Central-13				138	277		3877
Bouldin I-Central - 14	Shaft Crane Operator	305.35	10	31	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 14	Toplander	305.35	10	31	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 14	Bottomlander	305.35	10	31	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 14	Crane Oiler	305.35	10	31	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 14	Iron Worker	2442.79	10	244	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 14	Iron Worker Foreman	305.35	10	31	Lodi to/from Bouldin Island Shaft	14	
TOTAL Bouldin I-Central-14				397	794		11115
Bouldin I-Central - 15	Shifter	693.16	10	69	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 15	Lead Miner	693.16	10	69	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 15	Miner	3850.76	10	385	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 15	Mechanic Welder	452.58	10	45	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 15	Shaft Crane Operator	693.16	10	69	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 15	Toplander	693.16	10	69	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 15	Bottomlander	408.36	10	41	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 15	Crane Oiler	641.16	10	64	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 15	Concrete Pump Operator	240.58	10	24	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 15	Electrician	98.18	10	10	Lodi to/from Bouldin Island Shaft	14	
TOTAL Bouldin I-Central-15				846	1693		23700
Bouldin I-Central - 16	Bullgang Foreman	160	10	16	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 16	Bullgang Laborer	960	10	96	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 16	Mechanic / Welder	160	10	16	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 16	Master Mechanic	480	10	48	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 16	Shaft Crane Operator	160	10	16	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 16	Crane Oiler	160	10	16	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 16	Electrician	160	10	16	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 16	Hyd Crane Operator	160	10	16	Lodi to/from Bouldin Island Shaft	14	
TOTAL Bouldin I-Central-16				240	480		6720
Bouldin I-Central - 17	Shifter	2550	10	255	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 17	Lead Miner	2550	10	255	Lodi to/from Bouldin Island Shaft	14	
Bouldin I-Central - 17	Miner	17100	10	1710	Lodi to/from Bouldin Island Shaft	14	

Bouldin I-Central - 17	Mechanic / Welder	3650	10	365	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Shaft Crane Operator	1150	10	115	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Toplander	1150	10	115	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Bottomlander	1150	10	115	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Crane Oiler	1150	10	115	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Electrician	2250	10	225	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Hyd Crane Operator	900	10	90	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	ST2G Mucker Operator	400	10	40	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	ST2G Mucker Operator	400	10	40	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Segment Carrier Operator	400	10	40	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Electrician	1400	10	140	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	TBM Operator	2800	10	280	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Segment Carrier Operator	2000	10	200	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Conveyor Belt Man	1000	10	100	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-17				4200	8400	117600
Bouldin I-Central - 18	Bullgang Foreman	38810	20	5822	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Bullgang Laborer	129780	20	19467	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Mechanic / Welder	94882	20	14232	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Hyd Crane Operator	25460	20	3819	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Flat Truck Driver	12730	20	1910	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Miner	234080	20	35112	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Master Mechanic	13040	20	1956	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Shaft Crane Operator	46364	20	6955	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Toplander	46364	20	6955	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Bottomlander	46364	20	6955	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Crane Oiler	46364	20	6955	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Electrician	26080	20	3912	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Shifter	28192	20	4229	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Lead Miner	28192	20	4229	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Electrician	28192	20	4229	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	TBM Operator	7824	20	1174	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Conveyor Belt Man	3912	20	587	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Segment Carrier Operator	177160	20	26574	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Fanline Carrier Operator	26080	20	3912	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Utility Truck Operator	26080	20	3912	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Man Transport Truck Operator	26689	20	4003	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Conveyor Belt Subconsultant	49960	20	7494	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Loader Operator	25680	20	3852	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Mechanic / Welder	24280	20	3642	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-18				181884	363768	5092748
Bouldin I-Central - 19	Shifter	1325	10	133	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Lead Miner	1325	10	133	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Miner	5680	10	568	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Mechanic / Welder	2040	10	204	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Shaft Crane Operator	1325	10	133	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Toplander	1325	10	133	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Bottomlander	1325	10	133	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Crane Oiler	715	10	72	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Electrician	2040	10	204	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Hyd Crane Operator	715	10	72	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Utility Truck Operator	460	10	46	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Forklift Operator	610	10	61	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-19				1889	3777	52878
Bouldin I-Central - 20	Bullgang Foreman	100	10	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Bullgang Laborer	600	10	60	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Mechanic / Welder	560	10	56	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Master Mechanic	300	10	30	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Shaft Crane Operator	560	10	56	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Crane Oiler	100	10	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Electrician	560	10	56	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Hyd Crane Operator	100	10	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Shifter	460	10	46	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Lead Miner	460	10	46	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Miner	2760	10	276	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Utility Truck Operator	460	10	46	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Toplander	460	10	46	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Bottomlander	460	10	46	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Forklift Operator	460	10	46	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-20				840	1680	23520
Bouldin I-Central - 21	Laborer G2 General	30	10	3	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 21	Operator G7 Roller, Compactor	30	10	3	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 21	Operator G4 Dozer & Push Cat	30	10	3	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 21	Operator G4 Scraper	60	10	6	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 21	OPERATING ENGINEER FOREMAN	310	10	31	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 21	Operator G4 Grade Check	30	10	3	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 21	Operator G2 Finish Blade	30	10	3	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-21				52	104	1456
Bouldin I-Central - 22	Laborer G2 Concrete Laborer	840	10	84	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Operator G2 Excavator 3.5 to 7.0 cy	1680	10	168	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Operator G3 Loader >4cy	570	10	57	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Teamster G4 ED 25-65 Cy	280	10	28	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	OPERATING ENGINEER FOREMAN	447	10	45	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Operator G2 Finish Blade	10	10	1	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Operator G4 Dozer & Push Cat	1040	10	104	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Laborer G3 Flagman	980	10	98	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Operator G6 Tractor	330	10	33	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Operator G4 Scraper	960	10	96	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	OPERATING ENGINEER FOREMAN	240	10	24	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Laborer G2 General	290	10	29	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-22				767	1533	21468

Marine Inventory for Bouldin Island - Central Tunnel Shaft
Options 1A, 1B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Bouldin Island - Central Tunnel Shaft
Options 1A, 1B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Bouldin Island - Central Tunnel Shaft
Options 1A, 1B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Bouldin Island - Central Tunnel Shaft
Options 1A, 1B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
Bouldin I-Central - 3	338	19	17.8	256579.8	13504						
Bouldin I-Central - 5		220				9361	43				
Bouldin I-Central - 6		250				254407	1018				
Bouldin I-Central - 7		35				5647	161				
Bouldin I-Central - 8		18		635	35	334	19				
Bouldin I-Central - 9		85		13374	160	13743	162				
Bouldin I-Central - 10		66		77815	1181						
Bouldin I-Central - 11		28				11928	426				
Bouldin I-Central - 13		10				852	85				
Bouldin I-Central - 15		60				4602.66	77				
Bouldin I-Central - 18		1469		2467085	1679						
Bouldin I-Central - 22	15	141	0.1								

**Demolition Assumptions for Bouldin Island - Central Tunnel Shaft
Options 1A, 1B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

**Construction Schedule for Bacon Island and Mandeville Island Access Road and New Overpass in Holt
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B**

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Lower Jones T Access Roadway Excavation	BI_MI Access -1	4/27/2026	5/14/2026	14	5	10
Lower Jones T Access Embankment	BI_MI Access -2	5/15/2026	6/3/2026	14	5	10
Lower Jones T Access Culvert Pipe	BI_MI Access -3	6/4/2026	6/9/2026	5	5	10
Lower Jones T Access Subdrain System	BI_MI Access -4	6/10/2026	7/31/2026	38	5	10
Lower Jones T Access Road Base and K Rails	BI_MI Access -5	8/3/2026	9/21/2026	38	5	10
Lower Jones T Access Overpass Roadway Excavation	BI_MI Access -6	9/21/2026	9/22/2026	2	2	10
Lower Jones T Access Overpass Embankment	BI_MI Access -7	9/23/2026	9/28/2026	5	5	10
Lower Jones T Access Overpass New Bridge/Overpass	BI_MI Access -8	9/23/2026	10/20/2026	20	5	10
Lower Jones T Access Overpass Culvert Pipe	BI_MI Access -9	9/29/2026	9/29/2026	1	1	10
Lower Jones T Access Overpass Subdrain System	BI_MI Access -10	9/30/2026	10/2/2026	3	3	10
Lower Jones T Access Overpass Road Base	BI_MI Access -11	10/5/2026	10/7/2026	3	3	10
Lower Jones T Access Paving and K Rails	BI_MI Access -12	10/8/2026	10/12/2026	5	5	10
Bacon I & Mandeville I Access Roadway Excavation	BI_MI Access -13	10/8/2026	10/20/2026	9	5	10
Bacon I & Mandeville I Access Embankment	BI_MI Access -14	10/29/2026	11/13/2026	12	5	10
Bacon I & Mandeville I Access Culvert Pipe	BI_MI Access -15	11/16/2026	11/18/2026	3	3	10
Bacon I & Mandeville I Access Subdrain System	BI_MI Access -16	11/19/2026	1/5/2027	34	5	10
Bacon I & Mandeville I Access Road Base	BI_MI Access -17	1/6/2027	2/3/2027	21	5	10
Mandeville I Access Roadway Excavation & Bridge Removal	BI_MI Access -18	10/3/2027	11/5/2027	20	5	10
Mandeville I Access New Bridge	BI_MI Access -19	10/13/2027	3/30/2028	121	5	10
Mandeville I Access Embankment	BI_MI Access -20	11/8/2027	11/22/2027	9	5	10
Mandeville I Access Culvert Pipe	BI_MI Access -21	11/23/2027	11/24/2027	2	2	10
Mandeville I Access Subdrain System	BI_MI Access -22	11/25/2027	12/22/2027	20	5	10
Mandeville I Access Road Base	BI_MI Access -23	3/21/2028	4/5/2028	12	5	10
Lower Jones T 12-month Maintenance #1	BI_MI Access -24	4/1/2028	4/15/2028	9	5	10
Bacon I 12-month Maintenance #1	BI_MI Access -25	4/1/2028	4/15/2028	9	5	10
Lower Jones T 12-month Maintenance #2	BI_MI Access -26	4/1/2029	4/15/2029	9	5	10
Bacon I & Mandeville I 12-month Maintenance #2	BI_MI Access -27	4/1/2029	4/15/2029	9	5	10
Lower Jones T Overlay #1	BI_MI Access -28	6/13/2030	6/14/2030	2	2	10
Lower Jones T Overlay #2	BI_MI Access -29	8/7/2037	8/11/2037	5	5	10
Lower Jones Tract Access - Paved and Gravel Roads - Acres		22				
Bacon I & Mandeville I Access - Gravel Road - Acres		15				
Mandeville I Access - Gravel Road - Acres		9.5				

Offroad Equipment (Fossil Fuel) Inventory for Bacon Island and Mandeville Island Access Road and New Overpass in Holt
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (If known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (If known)
BI_MI Access -1	CAT D6LGPDozer w winch	Crawler Tractor	266.39	14	19	Diesel Tier 4 or Hybrid Diesel	179	0.43		
BI_MI Access -1	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	133.19	14	10	Diesel	384	0.38		
BI_MI Access -2	CAT D6LGPDozer w winch	Crawler Tractor	163.47	14	12	Diesel Tier 4 or Hybrid Diesel	179	0.43		
BI_MI Access -2	Disk, Towed	Off-Highway Tractor	163.47	14	12	Diesel	140	0.44		
BI_MI Access -2	CAT 14 M	Grader	81.74	14	6	Diesel	274	0.41		
BI_MI Access -2	Water Pump, 4" Diesel	Pumps	19.62	14	1	Diesel	10	0.74		
BI_MI Access -2	CAT 815, Roller	Roller	163.47	14	12	Diesel	170	0.38		
BI_MI Access -3	Air Compressor 375 cfm	Air Compressor	33.89	5	7	Diesel Tier 4	122	0.48		
BI_MI Access -3	CAT LOADER/HOE 416 E	Rubber Tired Loader	67.78	5	14	Diesel	78	0.36		
BI_MI Access -3	Compactor, Plate, 22" w x 35"	Plate Compactor	33.89	5	7	Diesel	8.5	0.43		
BI_MI Access -4	CAT LOADER/HOE 416 E	Rubber Tired Loader	104.48	38	3	Diesel	78	0.36		
BI_MI Access -4	Compactor, Trench Roller, Vib 32"w	Roller	208.95	38	5	Diesel	20	0.38		
BI_MI Access -5	CAT 14 M	Grader	342.86	38	9	Diesel	274	0.41		
BI_MI Access -5	Water Pump, 4" Diesel	Pumps	342.86	38	9	Diesel	10	0.74		
BI_MI Access -5	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	342.86	38	9	Diesel	156	0.38		
BI_MI Access -5	Boom Truck, 12.5 Tn Boom	Crane	5	38	0.1	Diesel or Hybrid Diesel	100	0.29		
BI_MI Access -5	CAT LOADER/HOE 416 E	Rubber Tired Loader	5	38	0.1	Diesel	78	0.36		
BI_MI Access -6	CAT D6LGPDozer w winch	Crawler Tractor	114.6	2	57.3	Diesel Tier 4 or Hybrid Diesel	179	0.43		
BI_MI Access -6	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	57.3	2	28.7	Diesel	384	0.38		
BI_MI Access -7	CAT D6LGPDozer w winch	Crawler Tractor	124.15	5	24.8	Diesel Tier 4 or Hybrid Diesel	179	0.43		
BI_MI Access -7	Disk, Towed	Off-Highway Tractor	124.15	5	24.8	Diesel	140	0.44		
BI_MI Access -7	CAT 14 M	Grader	62.08	5	12.4	Diesel	274	0.41		
BI_MI Access -7	Water Pump, 4" Diesel	Pumps	14.9	5	3.0	Diesel	10	0.74		
BI_MI Access -7	CAT 815, Roller	Rollers	124.15	5	24.8	Diesel	170	0.38		
BI_MI Access -7	Light Plant, 4 lite, 1000w, Tower/Mast	Generators	496.6	5	99.3	Diesel	12	0.74		
BI_MI Access -8	Grove RT Crane S5T, 247 hp	Cranes	342.86	20	17.1	Diesel	247	0.29		
BI_MI Access -8	Manitowoc 555 150T, 250' Boom	Cranes	342.86	20	17.1	Diesel	340	0.29		
BI_MI Access -9	Air Compressor 375 cfm	Air Compressor	5.06	1	5.1	Diesel Tier 4	122	0.48		
BI_MI Access -9	CAT LOADER/HOE 416 E	Rubber Tired Loader	10.11	1	10.1	Diesel	78	0.36		
BI_MI Access -9	Compactor, Plate, 22" w x 35"	Plate Compactor	5.06	1	5.1	Diesel	8.5	0.43		
BI_MI Access -10	CAT LOADER/HOE 416 E	Rubber Tired Loader	15.5	3	5.2	Diesel	78	0.36		
BI_MI Access -10	Compactor, Trench Roller, Vib 32"w	Roller	31	3	10.3	Diesel	20	0.38		
BI_MI Access -11	CAT 14 M	Grader	55.87	3	18.6	Diesel	274	0.41		
BI_MI Access -11	Water Pump, 4" Diesel	Pumps	55.87	3	18.6	Diesel	10	0.74		
BI_MI Access -11	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	55.87	3	18.6	Diesel	156	0.38		
BI_MI Access -12	CAT LOADER/HOE 416 E	Rubber Tired Loader	45.55	5	9.1	Diesel	78	0.36		
BI_MI Access -12	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	40.55	5	8.1	Diesel or Hybrid Diesel	224	0.42		
BI_MI Access -12	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	40.55	5	8.1	Diesel or Hybrid Diesel	137	0.38		
BI_MI Access -12	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	40.55	5	8.1	Diesel or Hybrid Diesel	133	0.38		
BI_MI Access -12	Boom Truck, 12.5 Tn Boom	Crane	5	5	1.0	Diesel or Hybrid Diesel	100	0.29		
BI_MI Access -13	CAT D6LGPDozer w winch	Crawler Tractor	447.94	9	49.8	Diesel Tier 4 or Hybrid Diesel	179	0.43		
BI_MI Access -13	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	223.97	9	24.9	Diesel	384	0.38		
BI_MI Access -14	CAT D6LGPDozer w winch	Crawler Tractor	175.28	12	14.6	Diesel Tier 4 or Hybrid Diesel	179	0.43		
BI_MI Access -14	Disk, Towed	Off-Highway Tractor	175.28	12	14.6	Diesel	140	0.44		
BI_MI Access -14	CAT 14 M	Grader	87.64	12	7.3	Diesel	274	0.41		
BI_MI Access -14	Water Pump, 4" Diesel	Pumps	21.03	12	1.8	Diesel	10	0.74		
BI_MI Access -14	CAT 815, Roller	Rollers	175.28	12	14.6	Diesel	170	0.38		
BI_MI Access -15	Air Compressor 375 cfm	Air Compressor	30.78	3	10.3	Diesel Tier 4	122	0.48		
BI_MI Access -15	CAT LOADER/HOE 416 E	Rubber Tired Loader	61.56	3	20.5	Diesel	78	0.36		
BI_MI Access -15	Compactor, Plate, 22" w x 35"	Plate Compactor	30.78	3	10.3	Diesel	8.5	0.43		
BI_MI Access -16	CAT LOADER/HOE 416 E	Rubber Tired Loader	94.96	34	2.8	Diesel	78	0.36		
BI_MI Access -16	Compactor, Trench Roller, Vib 32"w	Cranes	189.93	34	5.6	Diesel	20	0.38		
BI_MI Access -17	CAT 14 M	Grader	225.05	21	10.7	Diesel	274	0.41		
BI_MI Access -17	Water Pump, 4" Diesel	Pumps	225.05	21	10.7	Diesel	10	0.74		
BI_MI Access -17	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	225.05	21	10.7	Diesel	156	0.38		
BI_MI Access -18	CAT D6LGPDozer w winch	Crawler Tractor	325.02	20	16.3	Diesel Tier 4 or Hybrid Diesel	179	0.43		
BI_MI Access -18	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	162.51	20	8.1	Diesel	384	0.38		
BI_MI Access -19	Grove RT Crane S5T, 247 hp	Cranes	1136.36	121	9.4	Diesel	247	0.29		
BI_MI Access -19	Manitowoc 555 150T, 250' Boom	Cranes	1136.36	121	9.4	Diesel	340	0.29		
BI_MI Access -20	CAT D6LGPDozer w winch	Crawler Tractor	127.18	9	14.1	Diesel Tier 4 or Hybrid Diesel	179	0.43		
BI_MI Access -20	Disk, Towed	Off-Highway Tractor	127.18	9	14.1	Diesel	140	0.44		
BI_MI Access -20	CAT 14 M	Grader	63.59	9	7.1	Diesel	274	0.41		
BI_MI Access -20	Water Pump, 4" Diesel	Pumps	15.26	9	1.7	Diesel	10	0.74		
BI_MI Access -20	CAT 815, Roller	Rollers	127.18	9	14.1	Diesel	170	0.38		
BI_MI Access -21	Air Compressor 375 cfm	Air Compressor	16.67	2	8.3	Diesel Tier 4	122	0.48		
BI_MI Access -21	CAT LOADER/HOE 416 E	Rubber Tired Loader	33.33	2	16.7	Diesel	78	0.36		
BI_MI Access -21	Compactor, Plate, 22" w x 35"	Plate Compactor	16.67	2	8.3	Diesel	8.5	0.43		
BI_MI Access -22	CAT LOADER/HOE 416 E	Rubber Tired Loader	51.43	20	2.6	Diesel	78	0.36		
BI_MI Access -22	Compactor, Trench Roller, Vib 32"w	Roller	102.85	20	5.1	Diesel	20	0.38		
BI_MI Access -23	CAT 14 M	Grader	121.88	12	10.2	Diesel	274	0.41		
BI_MI Access -23	Water Pump, 4" Diesel	Pumps	121.88	12	10.2	Diesel	10	0.74		
BI_MI Access -23	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	121.88	12	10.2	Diesel	156	0.38		

BI_MI Access -24	CAT 14 M	Grader	594.29	9	66.0	Diesel	274	0.41
BI_MI Access -24	Water Pump, 4" Diesel	Pumps	594.29	9	66.0	Diesel	10	0.74
BI_MI Access -25	CAT 14 M	Grader	540.12	9	60.0	Diesel	274	0.41
BI_MI Access -25	Water Pump, 4" Diesel	Pumps	540.12	9	60.0	Diesel	10	0.74
BI_MI Access -26	CAT 14 M	Grader	594.29	9	66.0	Diesel	274	0.41
BI_MI Access -26	Water Pump, 4" Diesel	Pumps	594.29	9	66.0	Diesel	10	0.74
BI_MI Access -27	CAT 14 M	Grader	832.64	9	92.5	Diesel	274	0.41
BI_MI Access -26	Water Pump, 4" Diesel	Pumps	832.64	9	92.5	Diesel	10	0.74
BI_MI Access -28	CAT LOADER/HOE 416 E	Rubber Tired Loader	15.06	2	7.5	Diesel	78	0.36
BI_MI Access -28	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	15.06	2	7.5	Diesel or Hybrid Diesel	224	0.42
BI_MI Access -28	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	15.06	2	7.5	Diesel or Hybrid Diesel	137	0.38
BI_MI Access -28	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	15.06	2	7.5	Diesel or Hybrid Diesel	133	0.38
BI_MI Access -29	CAT LOADER/HOE 416 E	Rubber Tired Loader	15.06	5	3.0	Diesel	78	0.36
BI_MI Access -29	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	15.06	5	3.0	Diesel or Hybrid Diesel	224	0.42
BI_MI Access -29	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	15.06	5	3.0	Diesel or Hybrid Diesel	137	0.38
BI_MI Access -29	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	15.06	5	3.0	Diesel or Hybrid Diesel	133	0.38

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Bacon Island and Mandeville Island Access Road and New Overpass in Holt
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
BI_MI Access -2	Light Plant, 4 lite, 1000w, Tower/Mast	653.9 hours	14		
BI_MI Access -14	Light Plant, 4 lite, 1000w, Tower/Mast	701.1 hours	12		
BI_MI Access -20	Light Plant, 4 lite, 1000w, Tower/Mast	508.7hours	9		

Vehicle Inventory for Bacon Island and Mandeville Island Access Road and New Overpass in Holt
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/Trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gallons/ft.kwhrs)	Fuel (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
BI_MH Access -1	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	14	191.9	0.4	523	37	Lower Jones T Access to/from Stockton	11	22	Diesel	
BI_MH Access -1	Pickup, 1/2T, 2wd	Materials from Stockton	14	66.6	0.4	182	13	Lower Jones T Access to/from Stockton	11	22	Hybrid Gasoline	
BI_MH Access -1	Truck, Flatbed, 10T, Hwy	Crawler Tractor from Stockton	1	0.4	0.4	1	1.0	Lower Jones T Access to/from Stockton	11	22	Diesel	
BI_MH Access -1	Truck, Flatbed, 10T, Hwy	Excavator from Stockton	1	0.4	0.4	1	1.0	Lower Jones T Access to/from Stockton	11	22	Diesel	
BI_MH Access -1	Truck, Flatbed, 10T, Hwy	Materials from Stockton	14	5.1	0.4	14	1.0	Lower Jones T Access to/from Stockton	11	22	Diesel	
BI_MH Access -2	Pickup, 1/2T, 2wd	Materials from Stockton	14	163.5	0.4	446	32	Lower Jones T Access to/from Stockton	11	22	Hybrid Gasoline	
BI_MH Access -2	Truck, Flatbed, 10T, Hwy	Grader from Stockton	1	0.4	0.4	1	1.0	Lower Jones T Access to/from Stockton	11	22	Diesel	
BI_MH Access -2	Truck, Flatbed, 10T, Hwy	Roller from Stockton	1	0.4	0.4	1	1.0	Lower Jones T Access to/from Stockton	11	22	Diesel	
BI_MH Access -2	Truck End Dump 16-20cy Hwy	Base Rock from Vernalis	14	408.5	1.1	583	27.4	Lower Jones T Access to/from Vernalis	32	64	Diesel	
BI_MH Access -2	Truck End Dump 16-20cy Hwy	Gravel from Vernalis	14	2269.9	1.1	2128	152.0	Lower Jones T Access to/from Vernalis	32	64	Diesel	
BI_MH Access -3	Truck, Flatbed, 10T, Hwy	Materials from Stockton	5	33.9	0.4	92	18	Lower Jones T Access to/from Stockton	11	22	Diesel	
BI_MH Access -3	Truck, Flatbed, 10T, Hwy	Loader from Stockton	1	0.4	0.4	1	1.0	Lower Jones T Access to/from Stockton	11	22	Diesel	
BI_MH Access -3	Truck, Flatbed, 10T, Hwy	Pilot Compactor to and from Stockton	2	0.7	0.4	2	1.0	Lower Jones T Access to/from Stockton	11	22	Diesel	
BI_MH Access -3	Truck End Dump 16-20cy Hwy	Gravel from Vernalis	5	6.4	1.1	6	1.2	Lower Jones T Access to/from Vernalis	32	64	Diesel	
BI_MH Access -4	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	38	342.9	0.4	935	25	Lower Jones T Access to/from Stockton	11	22	Diesel	
BI_MH Access -4	Truck End Dump 16-20cy Hwy	Gravel from Vernalis	38	29.9	1.1	28	0.7	Lower Jones T Access to/from Vernalis	32	64	Diesel	
BI_MH Access -5	Pickup, 3/4T, 4wd	Materials from Stockton	38	27.1	0.4	74	2	Lower Jones T Access to/from Stockton	11	22	Hybrid Gasoline	
BI_MH Access -5	Truck End Dump 16-20cy Hwy	Base Rock from Vernalis	38	438.9	1.1	409	30.7	Lower Jones T Access to/from Vernalis	32	64	Diesel	
BI_MH Access -5	Truck, Flatbed, 10T, Hwy	Grader to Stockton	1	0.4	0.4	1	1.0	Lower Jones T Access to/from Stockton	11	22	Diesel	
BI_MH Access -5	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	0.4	0.4	1	1.0	Lower Jones T Access to/from Stockton	11	22	Diesel	
BI_MH Access -6	Truck & Bottom Dump 21cy 30T	Asphalt, Hot Mix Materials from Vernalis	2	203.7	1.1	191	96	Lower Jones T Access to/from Vernalis	32	64	Diesel Tier 4	
BI_MH Access -6	Boom Truck 12.5 to Boom	Materials from Stockton	2	2.5	0.4	7	3	Lower Jones T Access to/from Stockton	11	22	Diesel or Hybrid	
BI_MH Access -6	Pickup, 1/2T, 2wd	Materials from Stockton	2	28.7	0.4	78	39	Lower Jones T Access to/from Stockton	11	22	Hybrid Gasoline	
BI_MH Access -7	Truck, Flatbed, 10T, Hwy	HOE 416 E Loader to Stockton	5	0.4	0.4	1	1.0	Lower Jones T Access to/from Stockton	11	22	Diesel	
BI_MH Access -7	Pickup, 1/2T, 2wd	Materials from Stockton	5	124.2	0.4	339	68	Lower Jones T Access to/from Stockton	11	22	Hybrid Gasoline	
BI_MH Access -7	Truck End Dump 16-20cy Hwy	Gravel from Vernalis	5	1485.1	1.1	1397	276.4	Lower Jones T Access to/from Vernalis	32	64	Diesel	
BI_MH Access -8	Pickup, 1/2T, 2wd	Materials from Stockton	20	342.9	0.4	935	47	Lower Jones T Access to/from Stockton	11	22	Hybrid Gasoline	
BI_MH Access -8	Truck, Flatbed, 4T, Hwy	Materials from Stockton	20	342.9	0.4	935	47	Lower Jones T Access to/from Stockton	11	22	Diesel	
BI_MH Access -8	Truck, Flatbed, 10T, Hwy	Two Cranes from and to Stockton	2	2.3	0.6	4	2.0	Lower Jones T Access to/from Stockton	17	34	Diesel	
BI_MH Access -8	Truck, Flatbed, 10T, Hwy	Materials from Stockton	34	19.1	0.4	32	2.6	Lower Jones T Access to/from Stockton	11	22	Diesel	
BI_MH Access -9	Truck End Dump 16-20cy Hwy	Gravel from Vernalis	1	1.1	1.1	1	1.0	Lower Jones T Access to/from Vernalis	32	64	Diesel	
BI_MH Access -9	Truck, Flatbed, 10T, Hwy	Materials from Stockton	1	5.1	0.4	14	14	Lower Jones T Access to/from Stockton	11	22	Diesel	
BI_MH Access -10	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	3	31.0	0.4	85	28	Lower Jones T Access to/from Stockton	11	22	Diesel	
BI_MH Access -10	Truck, Flatbed, 10T, Hwy	Roller from Stockton	1	0.4	0.4	1	1.0	Lower Jones T Access to/from Stockton	11	22	Diesel	
BI_MH Access -10	Truck End Dump 16-20cy Hwy	Gravel from Vernalis	3	5.3	1.1	5	1.7	Lower Jones T Access to/from Vernalis	32	64	Diesel	
BI_MH Access -11	Pickup, 3/4T, 4wd	Materials from Stockton	3	55.9	0.4	152	51	Lower Jones T Access to/from Stockton	11	22	Hybrid Gasoline	
BI_MH Access -11	Truck, Flatbed, 10T, Hwy	Roller from Stockton	1	0.4	0.4	1	1.0	Lower Jones T Access to/from Stockton	11	22	Diesel	
BI_MH Access -11	Truck End Dump 16-20cy Hwy	Base Rock from Vernalis	3	541.9	1.1	508	36.9	Lower Jones T Access to/from Vernalis	32	64	Diesel	
BI_MH Access -11	Truck, Water, 4 mgal, Hwy	Recycled Water from Lodi	3	208.0	0.9	240	80	Lower Jones T Access to/from Lodi	26	52	Diesel	
BI_MH Access -12	Truck, Flatbed, 10T, Hwy	Paver and two Rollers to and from Stockton	2	2.2	0.4	6	3.0	Lower Jones T Access to/from Stockton	11	22	Diesel	
BI_MH Access -12	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	0.4	0.4	1	1.0	Lower Jones T Access to/from Stockton	11	22	Diesel	
BI_MH Access -12	Truck & Bottom Dump 21cy 30T	Asphalt, Hot Mix Materials from Vernalis	5	202.8	1.1	214	49	Lower Jones T Access to/from Vernalis	32	64	Diesel Tier 4	
BI_MH Access -12	Truck, Water, 4 mgal, Hwy	Recycled Water from Lodi	5	24.3	0.9	28	6	Lower Jones T Access to/from Lodi	26	52	Diesel	
BI_MH Access -13	Pickup, 1/2T, 2wd	Materials from Stockton	9	112.0	0.7	168	19	Bacon Island to/from Stockton	20	40	Hybrid Gasoline	
BI_MH Access -13	Truck, Flatbed, 10T, Hwy	Excavator to Stockton	1	0.7	0.7	1	1.0	Bacon Island to/from Stockton	20	40	Diesel	
BI_MH Access -13	Truck, Flatbed, 10T, Hwy	Materials from Stockton	9	4.8	0.4	13	1.4	Lower Jones T Access to/from Stockton	11	22	Diesel	
BI_MH Access -14	Pickup, 1/2T, 2wd	Materials from Stockton	12	175.3	0.7	263	22	Bacon Island to/from Stockton	20	40	Hybrid Gasoline	
BI_MH Access -14	Truck, Flatbed, 10T, Hwy	Crawler Tractor to Stockton	1	0.7	0.7	1	1.0	Bacon Island to/from Stockton	20	40	Diesel	
BI_MH Access -14	Truck, Flatbed, 10T, Hwy	Roller to Stockton	1	0.7	0.7	1	1.0	Bacon Island to/from Stockton	20	40	Diesel	
BI_MH Access -14	Truck End Dump 16-20cy Hwy	Gravel from Vernalis	12	2477.3	1.1	2323	136.1	Bacon Island to/from Vernalis	40	80	Diesel	
BI_MH Access -15	Truck, Flatbed, 10T, Hwy	Materials from Stockton	3	38.8	0.7	46	15	Bacon Island to/from Stockton	20	40	Diesel	
BI_MH Access -15	Truck End Dump 16-20cy Hwy	Gravel from Vernalis	3	8.0	1.3	5	2.0	Bacon Island to/from Vernalis	40	80	Diesel	
BI_MH Access -16	Truck, Flatbed, 10T, Hwy	Loader to Stockton	1	0.7	0.7	1	1.0	Bacon Island to/from Stockton	20	40	Diesel	
BI_MH Access -16	Truck, Flatbed, 10T, Hwy	Roller to Stockton	1	0.7	0.7	1	1.0	Bacon Island to/from Stockton	20	40	Diesel	
BI_MH Access -16	Truck End Dump 16-20cy Hwy	Gravel from Vernalis	34	14.7	1.3	26	0.8	Bacon Island to/from Vernalis	40	80	Diesel	
BI_MH Access -17	Pickup, 3/4T, 4wd	Materials from Stockton	21	226.1	0.7	338	16	Bacon Island to/from Stockton	20	40	Hybrid Gasoline	
BI_MH Access -17	Truck, Flatbed, 10T, Hwy	Grader to Stockton	1	0.7	0.7	1	1.0	Bacon Island to/from Stockton	20	40	Diesel	
BI_MH Access -17	Truck, Flatbed, 10T, Hwy	Roller to Stockton	1	0.7	0.7	1	1.0	Bacon Island to/from Stockton	20	40	Diesel	
BI_MH Access -17	Truck End Dump 16-20cy Hwy	Base Rock from Vernalis	21	158.4	1.1	264	1.6	Bacon Island to/from Vernalis	40	80	Diesel	
BI_MH Access -18	Pickup, 1/2T, 2wd	Materials from Stockton	20	81.3	0.7	122	6	Bacon Island to/from Stockton	20	40	Hybrid Gasoline	
BI_MH Access -18	Truck, Flatbed, 10T, Hwy	Crawler Tractor to and from Stockton	2	1.3	0.7	2	1.0	Bacon Island to/from Stockton	20	40	Diesel	
BI_MH Access -18	Truck, Flatbed, 10T, Hwy	Excavator from and to Stockton	2	1.3	0.7	2	1.0	Bacon Island to/from Stockton	20	40	Diesel	
BI_MH Access -19	Pickup, 1/2T, 2wd	Materials from Stockton	121	1136.4	0.8	1482	12	Mandeville Island to/from Stockton	23	46	Diesel	
BI_MH Access -19	Truck, Flatbed, 4T, Hwy	Materials from Stockton	121	1136.4	0.8	1482	12	Mandeville Island to/from Stockton	23	46	Diesel	
BI_MH Access -19	Truck, Flatbed, 10T, Hwy	Crane from and to Stockton	2	1.5	0.8	2	1.0	Mandeville Island to/from Stockton	23	46	Diesel	
BI_MH Access -19	Truck, Flatbed, 10T, Hwy	Materials from Stockton	121	0.4	0.4	1	0.0	Lower Jones T Access to/from Stockton	11	22	Diesel	
BI_MH Access -20	Pickup, 1/2T, 2wd	Materials from Stockton	9	127.2	0.8	166	18	Mandeville Island to/from Stockton	23	46	Hybrid Gasoline	
BI_MH Access -20	Truck, Flatbed, 10T, Hwy	Crawler Tractor from and to Stockton	1	1.5	0.8	2	2	Mandeville Island to/from Stockton	23	46	Diesel	
BI_MH Access -20	Truck, Flatbed, 10T, Hwy	Roller from and to Stockton	2	1.5	0.8	2	1	Mandeville Island to/from Stockton	23	46	Diesel	
BI_MH Access -20	Truck End Dump 16-20cy Hwy	Gravel from Vernalis	9	158.4	1.6	909	107	Mandeville Island to/from Vernalis	48	96	Diesel	
BI_MH Access -21	Truck, Flatbed, 10T, Hwy	Materials from Stockton	2	16.7	0.8	22	11	Mandeville Island to/from Stockton	23	46	Diesel	
BI_MH Access -21	Truck, Flatbed, 10T, Hwy	Loader from Stockton	1	0.8	0.8	1	1.0	Mandeville Island to/from Stockton	23	46	Diesel	
BI_MH Access -21	Truck End Dump 16-20cy Hwy	Gravel from Vernalis	2	4.8	1.6	3	2	Mandeville Island to/from Vernalis	48	96	Diesel	
BI_MH Access -22	Truck End Dump, 10-13cy, Hwy	Materials from Stockton	20	103.9	0.8	134	7	Mandeville Island to/from Stockton	23	46	Diesel	
BI_MH Access -22	Truck, Flatbed, 10T, Hwy	Loader to Stockton	1	0.8	0.8	1	1.0	Mandeville Island to/from Stockton	23	46	Diesel	
BI_MH Access -22	Truck End Dump 16-20cy Hwy	Gravel from Vernalis	20	22.4	1.6	14	1	Mandeville Island to/from Vernalis	48	96	Diesel	
BI_MH Access -23	Pickup, 3/4T, 4wd	Materials from Stockton	12	121.9	0.8	159	13	Mandeville Island to/from Stockton	23	46	Hybrid Gasoline	
BI_MH Access -23	Truck, Flatbed, 10T, Hwy	Grader from Stockton	1	0.8	0.8	1	1.0	Mandeville Island to/from Stockton	23	46	Diesel	
BI_MH Access -23	Truck End Dump 16-20cy Hwy	Base Rock from Vernalis	12	2126.4	1.6	1209	110.8	Mandeville Island to/from Vernalis	48	96	Diesel	
BI_MH Access -24	Pickup, 3/4T, 4wd	Materials from Stockton	9	59.4	0.4	162	18.0	Lower Jones T Access to/from Stockton	11	22	Hybrid Gasoline	
BI_MH Access -24	Truck End Dump 16-20cy Hwy	Base Rock from Vernalis	9	1417.6	1.1	1329	147.7	Lower Jones T Access to/from Vernalis	32	64	Diesel	
BI_MH Access -25	Pickup, 3/4T, 4wd	Materials from Stockton	9	54.0	0.7	81	9	Bacon Island to/from Stockton	20	40	Hybrid Gasoline	
BI_MH Access -25	Truck End Dump 16-20cy Hwy	Base Rock from Vernalis	9	5496.5	1.1	5153	573	Lower Jones T Access to/from Vernalis	32	64	Diesel	
BI_MH Access -26	Pickup, 3/4T, 4wd	Materials from Stockton	9	58.8	0.4	152	18	Lower Jones T Access to/from Stockton	11	22	Hybrid Gasoline	
BI_MH Access -26	Truck End Dump 16-20cy Hwy	Base Rock from Vernalis	9	1417.6	1.1	1329	147.7	Lower Jones T Access to/from Vernalis	32	64	Diesel	
BI_MH Access -27	Pickup, 3/4T, 4wd	Materials from Stockton	9	108.0	0.7	147	16	Bacon & Mandeville I to/from Stockton	22	44	Hybrid Gasoline	
BI_MH Access -27	Truck, Flatbed, 10T, Hwy	Grader to Stockton	1	0.8	0.8	1	1	Bacon & Mandeville I to/from Stockton	23	46	Diesel	
BI_MH Access -27	Truck End Dump 16-20cy Hwy	Base Rock from Vernalis	9	500.0	1.1	520	583	Lower Jones T Access to/from Vernalis	32	64	Diesel	
BI_MH Access -28	Truck, Flatbed, 10T, Hwy	Paver and two Rollers from Stockton	2	2.2	0.4	6	3	Lower Jones T Access to/from Stockton	11	22	Diesel	
BI_MH Access -28	Truck & Bottom Dump 21cy 30T	Asphalt, Hot Mix Materials from Vernalis	2	85.3	1.1	80	40	Lower Jones T Access to/from Vernalis	32	64	Diesel Tier 4	
BI_MH Access -28	Truck, Flatbed, 10T, Hwy	Materials from Stockton	2	0.4	0.4	1	0.5	Lower Jones T Access to/from Stockton	11	22	Diesel	
BI_MH Access -29	Truck, Flatbed, 10T, Hwy	Paver and two Rollers to Stockton	2	2.2	0.4	6	3	Lower Jones T Access to/from Stockton	11	22	Diesel	
BI_MH Access -29	Truck & Bottom Dump 21cy 30T	Asphalt										

**Employees Required for Bacon Island and Mandeville Island Access Road and New Overpass in Holt
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B**

Code	Employee Type	Hours	# Work Days		Trip Location (to/from)	Commute Miles/ One-way Trip
BI_MI Access -1	Operator G4 Dozer & Push Cat	266.39	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -1	Operator G2 Excavator 3.5 to 7.0 cy	133.19	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -1	OPERATING ENGINEER FOREMAN	66.6	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -1	Teamster G3 ED 8-24cy, Water>7mga	665.97	10		Lower Jones Tract Access to/from Stockton	11
TOTAL BI_MI Access-1						
BI_MI Access -2	Laborer G2 General	19.62	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -2	Operator G5 Compactor w-blade	163.47	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -2	Operator G4 Dozer & Push Cat	163.47	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -2	OPERATING ENGINEER FOREMAN	163.47	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -2	Operator G2 Finish Blade	81.74	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -2	Teamster G3 ED 8-24cy, Water>7mga	81.74	10		Lower Jones Tract Access to/from Stockton	11
TOTAL BI_MI Access-2						
BI_MI Access -3	Laborer G1 Pipe layers	135.56	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -3	Laborer Foreman	33.89	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -3	Operator G3 BH-Loader>3/4cy	67.78	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -3	Teamster G1 Hwy ED<6cy, Flatbed	50.83	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -3	Teamster G2 Hwy ED 6-8cy, Water<7	16.94	10		Lower Jones Tract Access to/from Stockton	11
TOTAL BI_MI Access-3						
BI_MI Access -4	Laborer G1 Pipe layers	417.9	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -4	Laborer G1 Power Tamper	208.95	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -4	Operator G4 Loader <4.1cy	104.48	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -4	Teamster G2 Hwy ED 6-8cy, Water<7	208.95	10		Lower Jones Tract Access to/from Stockton	11
TOTAL BI_MI Access-4						
BI_MI Access -5	Laborer G3 Flagman	685.72	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -5	Operator G7 Roller, Compactor	342.86	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -5	OPERATING ENGINEER FOREMAN	347.86	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -5	Operator G4 Grade Check	342.86	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -5	Operator G2 Finish Blade	342.86	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -5	Operator G8 Generator	68.57	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -5	Iron Worker-Rigger	5	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -5	Laborer G2 General	20	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -5	Operator G4a Boom truck<15 ton	5	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -5	Operator G3 BH-Loader>3/4cy	5	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -5	Teamster G3 Boom Truck	5	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -5	Teamster G2 Hwy ED 6-8cy, Water<7	342.86	10		Lower Jones Tract Access to/from Stockton	11
TOTAL BI_MI Access-5						
BI_MI Access -6	Operator G4 Dozer & Push Cat	114.6	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -6	Operator G2 Excavator 3.5 to 7.0 cy	57.3	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -6	OPERATING ENGINEER FOREMAN	28.65	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -6	Teamster G3 ED 8-24cy, Water>7mga	286.5	10		Lower Jones Tract Access to/from Stockton	11
TOTAL BI_MI Access-6						
BI_MI Access -7	Laborer G2 General	14.9	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -7	Operator G5 Compactor w-blade	124.15	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -7	Operator G4 Dozer & Push Cat	124.15	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -7	OPERATING ENGINEER FOREMAN	124.15	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -7	Operator G2 Finish Blade	62.08	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -7	Teamster G2 Hwy ED 6-8cy, Water<7	62.08	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -7	Teamster G3 ED 8-24cy, Water>7mga	62.08	10		Lower Jones Tract Access to/from Stockton	11
TOTAL BI_MI Access-7						
BI_MI Access -8	Iron Worker Journeyman Rebar/Struct	1371.43	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -8	Laborer G3 Bridge labor	1371.43	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -8	Operator G1a Cranes>100 t	342.86	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -8	Operator G2a Cranes 45 to 100 t	342.86	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -8	OPERATING ENGINEER FOREMAN	342.86	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -8	Pile Driver Wharf and Dock	1371.43	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -8	Teamster G1 Hwy ED<6cy, Flatbed	342.86	10		Lower Jones Tract Access to/from Stockton	11
TOTAL BI_MI Access-8						
BI_MI Access -9	Laborer G1 Pipe layers	20.22	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -9	Laborer Foreman	5.06	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -9	Operator G3 BH-Loader>3/4cy	10.11	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -9	Teamster G1 Hwy ED<6cy, Flatbed	7.58	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -9	Teamster G2 Hwy ED 6-8cy, Water<7	2.53	10		Lower Jones Tract Access to/from Stockton	11
TOTAL BI_MI Access-9						
BI_MI Access -10	Laborer G1 Pipe layers	62	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -10	Laborer G1 Power Tamper	31	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -10	Operator G4 Loader <4.1cy	15.5	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -10	Teamster G2 Hwy ED 6-8cy, Water<7	31	10		Lower Jones Tract Access to/from Stockton	11
TOTAL BI_MI Access-10						
BI_MI Access -11	Laborer G3 Flagman	111.74	10		Lower Jones Tract Access to/from Stockton	11
BI_MI Access -11	Operator G7 Roller, Compactor	55.87	10		Lower Jones Tract Access to/from Stockton	11

BI_MI Access -11	OPERATING ENGINEER FOREMAN	55.87	10	Lower Jones Tract Access to/from Stockton	11
BI_MI Access -11	Operator G4 Grade Check	55.87	10	Lower Jones Tract Access to/from Stockton	11
BI_MI Access -11	Operator G2 Finish Blade	55.87	10	Lower Jones Tract Access to/from Stockton	11
BI_MI Access -11	Operator G8 Generator	11.17	10	Lower Jones Tract Access to/from Stockton	11
BI_MI Access -11	Teamster G2 Hwy ED 6-8cy, Water<7	55.87	10	Lower Jones Tract Access to/from Stockton	11
TOTAL BI_MI Access-11					
BI_MI Access -12	Laborer G2 General	162.19	10	Lower Jones Tract Access to/from Stockton	11
BI_MI Access -12	Operator G5 Asphalt Roller	81.09	10	Lower Jones Tract Access to/from Stockton	11
BI_MI Access -12	Operator G3 BH-Loader>3/4cy	40.55	10	Lower Jones Tract Access to/from Stockton	11
BI_MI Access -12	OPERATING ENGINEER FOREMAN	45.55	10	Lower Jones Tract Access to/from Stockton	11
BI_MI Access -12	Operator G4 Grade Check	40.55	10	Lower Jones Tract Access to/from Stockton	11
BI_MI Access -12	Operator G5 Paver	40.55	10	Lower Jones Tract Access to/from Stockton	11
BI_MI Access -12	Teamster G2 Hwy ED 6-8cy, Wate	20.27	10	Lower Jones Tract Access to/from Stockton	11
BI_MI Access -12	Iron Worker-Rigger	5	10	Lower Jones Tract Access to/from Stockton	11
BI_MI Access -12	Laborer G2 General	20	10	Lower Jones Tract Access to/from Stockton	11
BI_MI Access -12	Operator G4a Boom truck<15 ton	5	10	Lower Jones Tract Access to/from Stockton	11
BI_MI Access -12	Operator G3 BH-Loader>3/4cy	5	10	Lower Jones Tract Access to/from Stockton	11
BI_MI Access -12	Teamster G3 Boom Truck	5	10	Lower Jones Tract Access to/from Stockton	11
TOTAL BI_MI Access-12					
BI_MI Access -13	Operator G4 Dozer & Push Cat	447.94	10	Bacon Island Access to/from Stockton	20
BI_MI Access -13	Operator G2 Excavator 3.5 to 7.0 cy	223.97	10	Bacon Island Access to/from Stockton	20
BI_MI Access -13	OPERATING ENGINEER FOREMAN	111.99	10	Bacon Island Access to/from Stockton	20
BI_MI Access -13	Teamster G3 ED 8-24cy, Water>7mga	1119.86	10	Bacon Island Access to/from Stockton	20
TOTAL BI_MI Access-13					
BI_MI Access -14	Laborer G2 General	21.03	10	Bacon Island Access to/from Stockton	20
BI_MI Access -14	Operator G5 Compactor w-blade	175.28	10	Bacon Island Access to/from Stockton	20
BI_MI Access -14	Operator G4 Dozer & Push Cat	175.28	10	Bacon Island Access to/from Stockton	20
BI_MI Access -14	OPERATING ENGINEER FOREMAN	175.28	10	Bacon Island Access to/from Stockton	20
BI_MI Access -14	Operator G2 Finish Blade	87.64	10	Bacon Island Access to/from Stockton	20
BI_MI Access -14	Teamster G3 ED 8-24cy, Water>7mga	87.64	10	Bacon Island Access to/from Stockton	20
TOTAL BI_MI Access-14					
BI_MI Access -15	Laborer G1 Pipe layers	123.11	10	Bacon Island Access to/from Stockton	20
BI_MI Access -15	Laborer Foreman	30.78	10	Bacon Island Access to/from Stockton	20
BI_MI Access -15	Operator G3 BH-Loader>3/4cy	61.56	10	Bacon Island Access to/from Stockton	20
BI_MI Access -15	Teamster G1 Hwy ED<6cy, Flatbed	46.17	10	Bacon Island Access to/from Stockton	20
BI_MI Access -15	Teamster G2 Hwy ED 6-8cy, Water<7	15.39	10	Bacon Island Access to/from Stockton	20
TOTAL BI_MI Access-15					
BI_MI Access -16	Laborer G1 Pipe layers	379.85	10	Bacon Island Access to/from Stockton	20
BI_MI Access -16	Laborer G1 Power Tamper	189.93	10	Bacon Island Access to/from Stockton	20
BI_MI Access -16	Operator G4 Loader <4.1cy	94.96	10	Bacon Island Access to/from Stockton	20
BI_MI Access -16	Teamster G2 Hwy ED 6-8cy, Water<7	189.93	10	Bacon Island Access to/from Stockton	20
TOTAL BI_MI Access-16					
BI_MI Access -17	Laborer G3 Flagman	450.1	10	Bacon Island Access to/from Stockton	20
BI_MI Access -17	Operator G7 Roller, Compactor	225.05	10	Bacon Island Access to/from Stockton	20
BI_MI Access -17	OPERATING ENGINEER FOREMAN	225.05	10	Bacon Island Access to/from Stockton	20
BI_MI Access -17	Operator G4 Grade Check	225.05	10	Bacon Island Access to/from Stockton	20
BI_MI Access -17	Operator G2 Finish Blade	225.05	10	Bacon Island Access to/from Stockton	20
BI_MI Access -17	Operator G8 Generator	45.01	10	Bacon Island Access to/from Stockton	20
BI_MI Access -17	Teamster G2 Hwy ED 6-8cy, Water<7	225.05	10	Bacon Island Access to/from Stockton	20
TOTAL BI_MI Access-17					
BI_MI Access -18	Operator G4 Dozer & Push Cat	325.02	10	Mandeville Island Access to/from Stockton	23
BI_MI Access -18	Operator G2 Excavator 3.5 to 7.0 cy	162.51	10	Mandeville Island Access to/from Stockton	23
BI_MI Access -18	OPERATING ENGINEER FOREMAN	81.26	10	Mandeville Island Access to/from Stockton	23
BI_MI Access -18	Teamster G3 ED 8-24cy, Water>7mga	812.56	10	Mandeville Island Access to/from Stockton	23
TOTAL BI_MI Access-18					
BI_MI Access -19	Iron Worker Journeyman Rebar/Struc	4545.45	10	Mandeville Island Access to/from Stockton	23
BI_MI Access -19	Laborer G3 Bridge labor	4545.45	10	Mandeville Island Access to/from Stockton	23
BI_MI Access -19	Operator G1a Cranes>100 t	1136.36	10	Mandeville Island Access to/from Stockton	23
BI_MI Access -19	Operator G2a Cranes 45 to 100 t	1136.36	10	Mandeville Island Access to/from Stockton	23
BI_MI Access -19	OPERATING ENGINEER FOREMAN	1136.36	10	Mandeville Island Access to/from Stockton	23
BI_MI Access -19	Pile Driver Wharf and Dock	4545.45	10	Mandeville Island Access to/from Stockton	23
BI_MI Access -19	Teamster G1 Hwy ED<6cy, Flatbed	1136.36	10	Mandeville Island Access to/from Stockton	23
TOTAL BI_MI Access-19					
BI_MI Access -20	Laborer G2 General	15.26	10	Mandeville Island Access to/from Stockton	23
BI_MI Access -20	Operator G5 Compactor w-blade	127.18	10	Mandeville Island Access to/from Stockton	23
BI_MI Access -20	Operator G4 Dozer & Push Cat	127.18	10	Mandeville Island Access to/from Stockton	23
BI_MI Access -20	OPERATING ENGINEER FOREMAN	127.18	10	Mandeville Island Access to/from Stockton	23
BI_MI Access -20	Operator G2 Finish Blade	63.59	10	Mandeville Island Access to/from Stockton	23
BI_MI Access -20	Teamster G3 ED 8-24cy, Water>7mga	63.59	10	Mandeville Island Access to/from Stockton	23
TOTAL BI_MI Access-20					
BI_MI Access -21	Laborer G1 Pipe layers	66.67	10	Mandeville Island Access to/from Stockton	23
BI_MI Access -21	Laborer Foreman	16.67	10	Mandeville Island Access to/from Stockton	23
BI_MI Access -21	Operator G3 BH-Loader>3/4cy	33.33	10	Mandeville Island Access to/from Stockton	23
BI_MI Access -21	Teamster G1 Hwy ED<6cy, Flatbed	25	10	Mandeville Island Access to/from Stockton	23
BI_MI Access -21	Teamster G2 Hwy ED 6-8cy, Water<7	8.33	10	Mandeville Island Access to/from Stockton	23
TOTAL BI_MI Access-21					

BI_MI Access -22	Laborer G1 Pipe layers	205.7	10	Mandeville Island Access to/from Stockton	23
BI_MI Access -22	Laborer G1 Power Tamper	102.85	10	Mandeville Island Access to/from Stockton	23
BI_MI Access -22	Operator G4 Loader <4.1cy	51.43	10	Mandeville Island Access to/from Stockton	23
BI_MI Access -22	Teamster G2 Hwy ED 6-8cy, Water<7	102.85	10	Mandeville Island Access to/from Stockton	23
TOTAL BI_MI Access-22					
BI_MI Access -23	Laborer G3 Flagman	243.77	10	Mandeville Island Access to/from Stockton	23
BI_MI Access -23	Operator G7 Roller, Compactor	121.88	10	Mandeville Island Access to/from Stockton	23
BI_MI Access -23	OPERATING ENGINEER FOREMAN	121.88	10	Mandeville Island Access to/from Stockton	23
BI_MI Access -23	Operator G4 Grade Check	121.88	10	Mandeville Island Access to/from Stockton	23
BI_MI Access -23	Operator G2 Finish Blade	121.88	10	Mandeville Island Access to/from Stockton	23
BI_MI Access -23	Operator G8 Generator	24.38	10	Mandeville Island Access to/from Stockton	23
BI_MI Access -23	Teamster G2 Hwy ED 6-8cy, Water<7	121.88	10	Mandeville Island Access to/from Stockton	23
TOTAL BI_MI Access-23					
BI_MI Access -24	OPERATING ENGINEER FOREMAN	59.43	10	Lower Jones Tract Access to/from Stockton	11
BI_MI Access -24	Operator G2 Finish Blade	594.29	10	Lower Jones Tract Access to/from Stockton	11
BI_MI Access -24	Operator G8 Generator	118.86	10	Lower Jones Tract Access to/from Stockton	11
BI_MI Access -24	Teamster G2 Hwy ED 6-8cy, Water<7	594.29	10	Lower Jones Tract Access to/from Stockton	11
TOTAL BI_MI Access-24					
BI_MI Access -25	OPERATING ENGINEER FOREMAN	54.01	10	Bacon Island Access to/from Stockton	20
BI_MI Access -25	Operator G2 Finish Blade	540.12	10	Bacon Island Access to/from Stockton	20
BI_MI Access -25	Operator G8 Generator	108.025	10	Bacon Island Access to/from Stockton	20
BI_MI Access -25	Teamster G2 Hwy ED 6-8cy, Water<7	540.12	10	Bacon Island Access to/from Stockton	20
TOTAL BI_MI Access-25					
BI_MI Access -26	OPERATING ENGINEER FOREMAN	59.43	10	Lower Jones Tract Access to/from Stockton	11
BI_MI Access -26	Operator G2 Finish Blade	594.29	10	Lower Jones Tract Access to/from Stockton	11
BI_MI Access -26	Operator G8 Generator	118.86	10	Lower Jones Tract Access to/from Stockton	11
BI_MI Access -26	Teamster G2 Hwy ED 6-8cy, Water<7	594.29	10	Lower Jones Tract Access to/from Stockton	11
TOTAL BI_MI Access-26					
BI_MI Access -27	OPERATING ENGINEER FOREMAN	83.26	10	Bacon & Mandeville Islands Access to/from Stockton	22
BI_MI Access -27	Operator G2 Finish Blade	832.64	10	Bacon & Mandeville Islands Access to/from Stockton	22
BI_MI Access -27	Operator G8 Generator	166.53	10	Bacon & Mandeville Islands Access to/from Stockton	22
BI_MI Access -27	Teamster G2 Hwy ED 6-8cy, Water<7	832.64	10	Bacon & Mandeville Islands Access to/from Stockton	22
TOTAL BI_MI Access-27					
BI_MI Access -28	Laborer G2 General	60.25	10	Lower Jones Tract Access to/from Stockton	11
BI_MI Access -28	Operator G5 Asphalt Roller	30.13	10	Lower Jones Tract Access to/from Stockton	11
BI_MI Access -28	Operator G3 BH-Loader>3/4cy	15.06	10	Lower Jones Tract Access to/from Stockton	11
BI_MI Access -28	OPERATING ENGINEER FOREMAN	15.06	10	Lower Jones Tract Access to/from Stockton	11
BI_MI Access -28	Operator G4 Grade Check	15.06	10	Lower Jones Tract Access to/from Stockton	11
BI_MI Access -28	Operator G5 Paver	15.06	10	Lower Jones Tract Access to/from Stockton	11
BI_MI Access -28	Teamster G2 Hwy ED 6-8cy, Water<7	7.53	10	Lower Jones Tract Access to/from Stockton	11
TOTAL BI_MI Access-28					
BI_MI Access -29	Laborer G2 General	60.25	10	Lower Jones Tract Access to/from Stockton	11
BI_MI Access -29	Operator G5 Asphalt Roller	30.13	10	Lower Jones Tract Access to/from Stockton	11
BI_MI Access -29	Operator G3 BH-Loader>3/4cy	15.06	10	Lower Jones Tract Access to/from Stockton	11
BI_MI Access -29	OPERATING ENGINEER FOREMAN	15.06	10	Lower Jones Tract Access to/from Stockton	11
BI_MI Access -29	Operator G4 Grade Check	15.06	10	Lower Jones Tract Access to/from Stockton	11
BI_MI Access -29	Operator G5 Paver	15.06	10	Lower Jones Tract Access to/from Stockton	11
BI_MI Access -29	Teamster G2 Hwy ED 6-8cy, Water<7	7.53	10	Lower Jones Tract Access to/from Stockton	11
TOTAL BI_MI Access-29					

Marine Inventory for Bacon Island and Mandeville Island Access Road and New Overpass in Holt
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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Locomotive Inventory for Bacon Island and Mandeville Island Access Road and New Overpass in Holt
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Bacon Island and Mandeville Island Access Road and New Overpass in Holt
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
BI_Mt Access -1	22	14	2	23975	1713						
BI_Mt Access -2		14									
BI_Mt Access -5		38									
BI_Mt Access -6		2									
BI_Mt Access -7		5									
BI_Mt Access -11		3									
BI_Mt Access -12		5									
BI_Mt Access -13		15									
BI_Mt Access -14		12									
BI_Mt Access -18		9.5									
BI_Mt Access -20	9	0.5	29252	1463							
BI_Mt Access -23	12										
BI_Mt Access -24	9										
BI_Mt Access -25	9										
BI_Mt Access -26	9										
BI_Mt Access -27	9										
BI_Mt Access -28	2										
BI_Mt Access -29	5										

Demolition Assumptions for Bacon Island and Mandeville Island Access Road and New Overpass in Holt Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Mandeville Island - Central Tunnel Shaft
Options 1A, 1B

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Clear and Grub	MI-Central - 1	2/27/2030	3/19/2030	15	5	10
Ground Improvement	MI-Central - 2	3/20/2030	5/14/2030	40	5	10
Raise Shaft Pad	MI-Central - 3	5/15/2030	5/13/2031	261	5	10
Excavate, Set Strips, & Place Guide Wall	MI-Central - 4	5/14/2031	5/30/2031	9	5	10
Place Guide Walls Concrete	MI-Central - 5	6/2/2031	6/2/2031	1	1	10
Excavate Slurry Wall & Place Concrete & Rebar	MI-Central - 6	6/3/2031	7/10/2031	38	7	24
Slurry Wall including Strip Forms and Place Rebar & Top Beam	MI-Central - 7	7/11/2031	8/22/2031	43	7	24
Excavate Shaft	MI-Central - 8	8/25/2031	10/1/2031	28	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	MI-Central - 9	10/2/2031	10/15/2031	14	7	24
Dewater Shaft	MI-Central - 10	10/16/2031	10/30/2031	6	5	24
Place TBM Cradle Rebar and Cradle Pour	MI-Central - 11	10/23/2031	10/30/2031	6	5	10
Breakout Slurry Wall for TBM	MI-Central - 12	10/31/2031	11/26/2031	19	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	MI-Central - 13	0/3/2031	2/11/2032	96	5	10
Place Shaft Cover	MI-Central - 14	2/19/2032	2/27/2032	7	5	10

Total Site Acres

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Offroad Equipment (Fossil Fuel) Inventory for Mandeville Island - Central Tunnel Shaft
Options 1A, 1B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
Mi-Central - 1	CAT D8 Dozer	Crawler Tractor	28.86	15	2	Diesel Tier 4 or Hybrid Diesel	179	0.43		
Mi-Central - 1	CAT Grader 16H - 16' Blade	Grader	28.86	15	2	Diesel	285	0.41		
Mi-Central - 1	623G Scraper Elevate 21 CY	Scraper	57.72	15	4	Diesel	359	0.48		
Mi-Central - 2	Air Compressor 375 CFM	Air Compressor	240	40	6	Diesel Tier 4	122	0.48		
Mi-Central - 2	Grove RT Crane 30T	Crane	240	40	6	Diesel	160	0.29		
Mi-Central - 2	DMM Deep Soil Mixer	Trencher	240	40	6	Diesel	808	0.5		
Mi-Central - 2	DMM Grout Mix Plant	Other Industrial Equipmen	240	40	6	Diesel	500	0.34		
Mi-Central - 2	Portable 90 Kw Diesel	Generators	40	40	1	Diesel Tier 4	158	0.74		
Mi-Central - 2	Case 590 SupN Loader	Rubber Tired Loaders	240	40	6	Diesel	110	0.36		
Mi-Central - 2	Water Pump 4" Electric	Pumps	532.44	40	13	Diesel	10	0.74		
Mi-Central - 3	CAT CB-634D Vibratory 84"	Rollers	2135.31	261	8	Diesel	145	0.38		
Mi-Central - 3	CAT Grader 16H	Graders	2135.31	261	8	Diesel	285	0.41		
Mi-Central - 3	CAT D8 Dozer	Crawler Tractor	2135.31	261	8	Diesel	328	0.43		
Mi-Central - 4	CAT Hyd Excavator 1CY	Excavator	6	9	1	Diesel	138	0.38		
Mi-Central - 4	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	6	9	1	Diesel or Hybrid	130	0.36		
Mi-Central - 6	1600 CFM Compressor Diesel	Air Compressor	224	38	6	Diesel Tier 4	540	0.48		
Mi-Central - 6	Hydraulic 55 Ton Crane	Crane	448	38	12	Diesel	350	0.29		
Mi-Central - 6	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	224	38	6	Diesel or Hybrid	130	0.36		
Mi-Central - 6	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	224	38	6	Diesel	8	0.56		
Mi-Central - 6	Slurry Wall Techniwell	Pumps	224	38	6	Diesel	500	0.74		
Mi-Central - 6	Manitowoc 777 200 Ton Crane	Crane	448	38	12	Diesel	760	0.29		
Mi-Central - 7	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	235.5	43	5	Diesel or Hybrid	130	0.36		
Mi-Central - 7	250 CFM Compressor Diesel	Air Compressor	3.3	43	0.1	Diesel Tier 3	75	0.48		
Mi-Central - 7	CAT Hyd Excavator 1CY	Excavator	235.5	43	5.5	Diesel	138	0.38		
Mi-Central - 8	Manitowoc 777 200 Ton Crane	Crane	111	8	14	Diesel	760	0.29		
Mi-Central - 9	Manitowoc 777 200 Ton Crane	Crane	111	14	8	Diesel	760	0.29		
Mi-Central - 9	Hydraulic 40 Ton Crane	Crane	36	14	3	Diesel	300	0.29		
Mi-Central - 9	Hydraulic 25 Ton Crane	Crane	76.47	14	5	Diesel	100	0.29		
Mi-Central - 10	Dewater Pump 6"	Pump	400	7	57	Diesel	50	0.74		
Mi-Central - 10	150 KW Diesel Generator	Generator	100	7	14	Diesel Tier 4	183	0.74		
Mi-Central - 10	Hydraulic 15 Ton Crane	Crane	100	7	14	Diesel	100	0.29		
Mi-Central - 11	Manitowoc 777 200 Ton Crane	Crane	35.2	6	6	Diesel	760	0.29		
Mi-Central - 11	250 CFM Compressor Diesel	Air Compressor	8.2	6	1	Diesel Tier 3	75	0.48		
Mi-Central - 11	Trailer Conc Pump 100 CY HR	Pump	8.2	6	1	Diesel	200	0.74		
Mi-Central - 12	250 CFM Compressor Diesel	Air Compressor	118.67	19	6	Diesel Tier 3	75	0.48		
Mi-Central - 12	Manitowoc 777 200 Ton Crane	Crane	118.67	19	6	Diesel	760	0.29		
Mi-Central - 13	Hydraulic 9 Ton Crane	Crane	264.8	96	3	Diesel	85	0.29		
Mi-Central - 13	250 CFM Compressor Diesel	Air Compressor	699.99	96	7	Diesel Tier 3	75	0.48		
Mi-Central - 13	Trailer Conc Pump 100 CY HR	Pump	321.16	96	3	Diesel	200	0.74		
Mi-Central - 13	Manitowoc 777 200 Ton Crane	Crane	102	96	1	Diesel	760	0.29		
Mi-Central - 13	Manitowoc 999-275 Ton Crane	Crane	128.33	96	1	Diesel	900	0.29		
Mi-Central - 14	Hydraulic 9 Ton Crane	Crane	50	7	7	Diesel	85	0.29		
Mi-Central - 14	Hydraulic 40 Ton Crane	Crane	50	7	7	Diesel	300	0.29		
Mi-Central - 14	CAT Forklift 5,500 LB	Aerial Lift	50	7	7	Diesel	63	0.31		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Mandeville Island - Central Tunnel Shaft
Options 1A, 1B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
MI-Central - 13	Axial Fan 114,000 CFM	60	96	50	31
MI-Central - 13	Electric Welder 400 AMP	204.8	96	15	32

Vehicle Inventory for Mandeville Island - Central Tunnel Shaft
Options 1A, 1B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. office)	# day	Vehicle Hours	Hours/trip	# of Vehicles Trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
Mi-Central - 1	Truck, Flatbed, 10T, Hwy	Grader and Scraper to and from Stockton	2	3	0.8	4	2.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 1	Truck, Flatbed, 10T, Hwy	Crawler Tractor from Stockton	1	1	0.8	1	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 1	Pickup 1/2T 2 WD	Materials from Stockton	15	29	0.8	37	2	Mandeville I Shaft to/from Stockton	23	46	Hybrid Gasoline	
Mi-Central - 2	Pickup 1/2T 2 WD	Materials from Stockton	40	532.44	0.8	694	17	Mandeville I Shaft to/from Stockton	23	46	Hybrid Gasoline	
Mi-Central - 2	Truck Flatbed 4 T Highway	Materials from Stockton	40	532.44	0.8	694	17	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 2	Mechanic Truck	Materials from Stockton	40	532.44	0.8	694	17	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 2	Truck, Water, 4 gal, Hwy	Recycled Water from Lodi	40	438.1	1.3	337	8.4	Mandeville I Shaft to/from Lodi	39	78	Diesel	
Mi-Central - 2	Truck, Flatbed, 10T, Hwy	Crane, Trencher, & Other Equipment to and from Stockton	2	5	0.8	6	3.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 2	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement from Sacramento	40	312.7	2.3	134	3	Mandeville Island Shaft to/from Sacramento	70	140	Diesel	
Mi-Central - 2	Pickup 1/2T 2 WD	Materials from Stockton	40	6	0.8	8	1.0	Mandeville I Shaft to/from Stockton	23	46	Hybrid Gasoline	
Mi-Central - 2	Pickup 1/2T 1 WD	Materials from Stockton	40	29	0.8	37	0.93	Mandeville I Shaft to/from Stockton	23	46	Hybrid Gasoline	
Mi-Central - 3	Highway Dump Truck 18 CY	Materials from Stockton	261	2135.31	0.8	2785	11	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 3	Truck/ End Dump/ 16-20cy/ Hwy	RTM Material in Covered Trucks from Twin Cities Complex	261	11693	1.9	4264	24	Mandeville I Shaft to/from Twin Cities Complex	56	112	Diesel	
Mi-Central - 3	Truck, Flatbed, 10T, Hwy	Grader and Roller to and from Stockton	2	3	0.8	4	2.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 3	Truck, Flatbed, 10T, Hwy	Crawler Tractor to Stockton	1	1	0.8	1	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 3	Pickup 1/2T 2 WD	Materials from Stockton	261	29	0.8	37	0.14	Mandeville I Shaft to/from Stockton	23	46	Hybrid Gasoline	
Mi-Central - 4	Truck, Flatbed, 10T, Hwy	Excavator to and from Stockton	2	2	0.8	2	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 4	Truck, Flatbed, 10T, Hwy	Loader from Stockton	1	1	0.8	1	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 4	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	9	2	1.6	1	0.1	Mandeville I Shaft to/from Livermore	48	96	Diesel	
Mi-Central - 5	Concrete Transit Mix Truck 12cy	Concrete from Bacon Island	1	6	0.3	23	23	Mandeville I Shaft to/from Bacon Island	8	16	Diesel	
Mi-Central - 6	Concrete Transit Mix Truck 12cy	Concrete from Bacon Island	38	158	0.3	592	16	Mandeville I Shaft to/from Bacon Island	8	16	Diesel	
Mi-Central - 6	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	38	42	1.6	26	0.7	Mandeville I Shaft to/from Livermore	48	96	Diesel	
Mi-Central - 6	Truck, Flatbed, 10T, Hwy	Crane and Other Equipment to and from Stockton	2	3	0.8	4	2.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 6	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	1	0.8	1	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 7	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	43	455	2.3	195	5	Mandeville I Shaft to/from Sacramento	70	140	Diesel	
Mi-Central - 7	Truck, Flatbed, 10T, Hwy	Loader to Stockton	1	1	0.8	1	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 7	Concrete Transit Mix Truck 12cy	Concrete from Bacon Island	43	3	0.3	12	0	Mandeville I Shaft to/from Bacon Island	8	16	Diesel	
Mi-Central - 7	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	43	2	1.6	1	0.0	Mandeville I Shaft to/from Livermore	48	96	Diesel	
Mi-Central - 9	Truck Flatbed 4 T Highway	Rebar from Livermore	14	11	1.6	7	1	Mandeville I Shaft to/from Livermore	48	96	Diesel	
Mi-Central - 9	Truck, Flatbed, 10T, Hwy	Cranes to and from Stockton	2	3	0.8	4	2.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 9	Concrete Transit Mix Truck 12cy	Concrete from Bacon Island	14	129	0.3	484	35	Mandeville I Shaft to/from Bacon Island	8	16	Diesel	
Mi-Central - 10	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	2	0.8	2	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 11	Truck Flatbed 4 T Highway	Rebar from Livermore	6	2	1.6	1	0.2	Mandeville I Shaft to/from Livermore	48	96	Diesel	
Mi-Central - 11	Concrete Transit Mix Truck 12cy	Concrete from Bacon Island	6	9	0.3	35	6	Mandeville I Shaft to/from Bacon Island	8	16	Diesel	
Mi-Central - 12	Truck Flatbed 4 T Highway	Rebar from Livermore	19	3	1.6	2	0.1	Mandeville I Shaft to/from Livermore	48	96	Diesel	
Mi-Central - 13	Concrete Transit Mix Truck 12cy	Concrete from Bacon Island	96	97	0.3	365	4	Mandeville I Shaft to/from Bacon Island	8	16	Diesel	
Mi-Central - 13	Concrete Transit Mix Truck 12cy	Tremie Concrete from Bacon Island Concrete Batch Plant	96	129	0.3	483	5	Mandeville I Shaft to/from Bacon Island Concrete Batch Plant	8	16	Diesel	
Mi-Central - 13	Truck, Flatbed, 10T, Hwy	Crane to Stockton	2	1	0.8	1	0.5	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 13	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	2	0.8	2	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 14	Highway Flatbed 10 Ton	Materials from Stockton	7	50	0.8	65	9	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 14	Highway Flatbed 10 Ton	Materials from Stockton	7	4	0.8	5	1	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 14	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	2	0.8	2	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site												
Mi-Central - 4	CAT 730 Rear Dump	Dumper	9	18	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		92	Diesel or Hybrid	
Mi-Central - 6	CAT 730 Rear Dump	Dumper	38	255.36	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1277		
i-Central - 6	Concrete Pump Truck	Off-Highway Truck Dumpers	38	448	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2240	Diesel	
Mi-Central - 8	Trucking Off Highway CAT 730		8	1155	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		5775	Diesel	
Mi-Central - 9	Concrete Pump Truck	Off-Highway Truck	14	76	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		380		

Employees Required to Mandeville Island - Central Tunnel Shaft
Options 1A, 1B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
MI-Central - 1	General Foreman	14.43	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 1	Dozer Operator	28.86	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 1	Grader Operator	28.86	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 1	Operator G4 Grade Check	14.43	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 1	Scraper Operator	57.72	10		Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-1						
MI-Central - 2	Laborer G2 General	1597.32	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 2	Operator G3a Crane	532.44	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 2	Operator G3 BH Loader	532.44	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 2	Operating Engineer	532.44	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 2	Operator G4 Grade Check	532.44	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 2	Operator G4 Heavy Duty Mechanic	532.44	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 2	Operator G2 Plant Operator	1064.88	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 2	Teamster G1 Hwy	532.44	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 2	Teamster G2 Hwy	532.44	10		Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-2						
MI-Central - 3	Grade Setter / Checker	2135.31	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 3	Water Truck Highway	2135.31	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 3	Compactor Operator	2135.31	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 3	Dozer Operator	2135.31	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 3	Grader Operator	2135.31	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 3	Truck Driver	2135.31	10		Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-3						
MI-Central - 4	Shifter	6	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 4	Lead Miner	6	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 4	Miner	6	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 4	Loader Operator	6	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 4	Excavator Operator	6	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 4	Truck Driver	17.94	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 4	Carpenter	426.54	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 4	Carpenter Foreman	106.64	10		Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-4						
MI-Central - 5	General Laborer	10.9	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 5	Carpenter	21.8	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 5	Carpenter Foreman	5.45	10		Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-5						
MI-Central - 6	General Laborer	2464	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	General Foreman	468	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Mechanic Welder	448	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Shaft Crane Operator	224	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Crane Oiler	224	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Truck Driver	255.36	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Loader Operator	224	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Slurry Wall Consultant	224	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Shifter	224	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Lead Miner	224	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Miner	1792	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Shifter	224	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Hyd Crane Operator	448	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Iron Worker Foreman	224	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Iron Worker	224	24		Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-6						
MI-Central - 7	Hydraulic Excavator to 3.5	235.5	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 7	Loader Operator	235.5	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 7	Excavator Operator	235.5	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 7	Hyd Track Drill	235.5	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 7	General Laborer	828.1	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 7	General Foreman	235.5	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 7	Carpenter	33.2	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 7	Carpenter Foreman	8.3	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 7	Iron Worker Foreman	12.68	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 7	Iron Worker	50.74	24		Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-7						
MI-Central - 8	Shaft Crane Operator	231	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 8	Toplander	231	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 8	Diver Contractor	220	24		Stockton to/from Mandeville I Shaft	23

MI-Central - 8	Crane Oiler	231	24	Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-8					
MI-Central - 9	Diver Contractor	138.74	24	Stockton to/from Mandeville I Shaft	23
MI-Central - 9	Shifter	166.12	24	Stockton to/from Mandeville I Shaft	23
MI-Central - 9	Lead Miner	19.12	24	Stockton to/from Mandeville I Shaft	23
MI-Central - 9	Miner	446.95	24	Stockton to/from Mandeville I Shaft	23
MI-Central - 9	Hyd Crane Operator	223.47	24	Stockton to/from Mandeville I Shaft	23
MI-Central - 9	Toplander	255	24	Stockton to/from Mandeville I Shaft	23
MI-Central - 9	Bottomlander	111	24	Stockton to/from Mandeville I Shaft	23
MI-Central - 9	Iron Worker Foreman	147	24	Stockton to/from Mandeville I Shaft	23
MI-Central - 9	Iron Worker	1176	24	Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-9					
MI-Central - 10	Shifter	100	24	Stockton to/from Mandeville I Shaft	23
MI-Central - 10	Lead Miner	100	24	Stockton to/from Mandeville I Shaft	23
MI-Central - 10	Miner	800	24	Stockton to/from Mandeville I Shaft	23
MI-Central - 10	Hyd Crane Operator	100	24	Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-10					
MI-Central - 11	Shifter	35.2	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Miner	119.6	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Shaft Crane Operator	35.2	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Toplander	35.2	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Crane Oiler	35.2	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Iron Worker	216	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Iron Worker Foreman	27	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Lead Miner	8.2	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Mechanic Welder	8.2	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Electrician	8.2	10	Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-11					
MI-Central - 12	Shaft Crane Operator	118.67	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 12	Toplander	118.67	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 12	Bottomlander	118.67	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 12	Crane Oiler	118.67	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 12	Iron Worker	949.36	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 12	Iron Worker Foreman	118.67	10	Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-12					
MI-Central - 13	Shifter	699.99	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Lead Miner	699.99	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Miner	4680.75	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Mechanic / Welder	840.49	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Electrician	264.86	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Hyd Crane Operator	264.8	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Shaft Crane Operator	230	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Toplander	230	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Bottomlander	102	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Crane Oiler	178	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Concrete Pump Operator	64.3	10	Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-13					
MI-Central - 14	Bullgang Foreman	50	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 14	Bullgang Laborer	100	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 14	Mechanic / Welder	50	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 14	Hyd Crane Operator	100	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 14	Flat Truck Driver	50	10	Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-14					

Marine Inventory for Mandeville Island - Central Tunnel Shaft
Options 1A, 1B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Mandeville Island - Central Tunnel Shaft
Options 1A, 1B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

Helicopter Inventory for Mandeville Island - Central Tunnel Shaft
Options 1A, 1B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Mandeville Island - Central Tunnel Shaft
Options 1A, 1B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
Mi-Central - 1	14	15	1	7274	485						
Mi-Central - 3		261				93951	360				
Mi-Central - 4		9		392	44						
Mi-Central - 5		1				218	218				
Mi-Central - 6		38		5617	148	5617	148				
Mi-Central - 7		43				105	2				
Mi-Central - 8		8		25420	3178						
Mi-Central - 9		14				4592	328				
Mi-Central - 11		6				328	55				
Mi-Central - 13		96				2134	22				
Mi-Central - 13		96				1286	13				

**Demolition Assumptions for Mandeville Island - Central Tunnel Shaft
Options 1A, 1B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

**Construction Schedule for Bacon Island - Central Tunnel Shaft
Options 1A, 1B**

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Concrete Batch Plant	BI-Central - 1	4/30/2031	5/20/1931	15	5	10
Clear and Grub	BI-Central - 2	5/14/2031	5/20/2031	5	5	10
Ground Improvement	BI-Central - 3	5/21/2031	11/11/2031	125	5	10
Raise Shaft Pad	BI-Central - 4	11/12/2031	9/2/2032	190	5	10
Excavate, Set Strips, & Place Guide Wall	BI-Central - 5	9/3/2032	9/20/2032	14	5	10
Place Guide Walls Concrete	BI-Central - 6	9/21/2032	9/22/2032	1	1	10
Excavate Slurry Wall & Place Concrete & Rebar	BI-Central - 7	9/23/2032	11/1/2032	40	7	24
Slurry Wall including Strip Forms and Place Rebar & Top Beam	BI-Central - 8	11/2/2032	12/14/2032	43	7	24
Excavate Shaft	BI-Central - 9	12/15/2032	1/27/2033	47	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	BI-Central - 10	1/28/2033	2/10/2033	14	7	24
Dewater Shaft	BI-Central - 11	2/11/2033	2/17/2033	7	7	24
Place TBM Cradle Rebar and Cradle Pour	BI-Central - 12	2/18/2033	2/25/2033	6	5	10
Breakout Slurry Wall for TBM	BI-Central - 13	2/28/2033	3/24/2033	19	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	BI-Central - 14	3/25/2033	5/12/2033	35	5	10
Place Shaft Cover	BI-Central - 15	2/14/2036	2/21/2036	5	5	10
Complete Shaft Maintenance	BI-Central - 16	3/23/2034	4/21/2034	22	5	10
Batch Plant Operations	BI-Central - 17	5/20/2031	4/11/2033	500	5	10
Batch Plant Demobilization	BI-Central - 18	4/28/2033	5/4/2033	5	5	10

Total Site Acres

15

Offroad Equipment (Fossil Fuel) Inventory for Bacon Island - Central Tunnel Shaft
Options 1A, 1B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
BI-Central - 1	Air Compressor 185 cfm	Air Compressor	400	15	27	Diesel Tier 4	49	0.48		
BI-Central - 1	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lift	200	15	13	Diesel	75	0.31		
BI-Central - 1	Grove RT Crane 80T, 275hp	Crane	400	15	27	Diesel	275	0.29		
BI-Central - 1	Boom Truck, 12.5 Tn Boom	Crane	200	15	13	Diesel or Hybrid	100	0.29		
BI-Central - 2	CAT D8 Dozer	Crawler Tractor	46.44	5	9	Diesel Tier 4 or Hybrid Diesel	179	0.43		
BI-Central - 2	CAT Grader 16H - 16' Blade	Grader	46.44	5	9	Diesel	285	0.41		
BI-Central - 2	623G Scraper Elevate 21 CY	Scaper	92.88	5	19	Diesel	359	0.48		
BI-Central - 3	Air Compressor 375 CFM	Air Compressor	1000	125	18	Diesel Tier 4	122	0.48		
BI-Central - 3	Grove RT Crane 30T	Crane	1000	125	18	Diesel	160	0.29		
BI-Central - 3	DMM Deep Soil Mixer	Bore Drill Rig	1000	125	18	Diesel	808	0.5		
BI-Central - 3	DMM Grout Mix Plant	Other Industrial Equipmen	1000	125	18	Diesel	500	0.34		
BI-Central - 3	Portable 90 Kw Diesel	Generators	1000	125	18	Diesel Tier 4	158	0.74		
BI-Central - 3	Case 590 SupN Loader	Rubber Tired Loaders	1000	125	18	Diesel	110	0.36		
BI-Central - 3	Water Pump 4" Electric	Pumps	2207	125	18	Diesel	10	0.74		
BI-Central - 4	CAT CB-634D Vibratory 84"	Rollers	2819.87	190	15	Diesel	145	0.38		
BI-Central - 4	CAT Grader 16H	Graders	2819.87	190	15	Diesel	285	0.41		
BI-Central - 4	CAT D8 Dozer	Crawler Tractor	2819.87	190	15	Diesel	328	0.43		
BI-Central - 5	CAT Hyd Excavator 1CY	Excavator	6	14	0	Diesel	138	0.38		
BI-Central - 5	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	6	14	0	Diesel or Hybrid	130	0.36		
BI-Central - 7	1600 CFM Compressor Diesel	Air Compressor	224	40	6	Diesel Tier 4	540	0.48		
BI-Central - 7	Hydraulic 55 Ton Crane	Crane	448	40	11	Diesel	350	0.29		
BI-Central - 7	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	224	40	6	Diesel or Hybrid	130	0.36		
BI-Central - 7	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	224	40	6	Diesel	8	0.56		
BI-Central - 7	Slurry Wall Techniwell	Pumps	224	40	6	Diesel	500	0.74		
BI-Central - 7	Manitowoc 777 200 Ton Crane	Crane	448	40	11	Diesel	760	0.29		
BI-Central - 8	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	235.5	43	5	Diesel or Hybrid	130	0.36		
BI-Central - 8	250 CFM Compressor Diesel	Air Compressor	3.3	43	0.1	Diesel Tier 3	75	0.48		
BI-Central - 8	CAT Hyd Excavator 1CY	Excavator	235.5	43	5.5	Diesel	138	0.38		
BI-Central - 9	Manitowoc 777 200 Ton Crane	Crane	225	47	5	Diesel	760	0.29		
BI-Central - 10	Manitowoc 777 200 Ton Crane	Crane	111	14	8	Diesel	760	0.29		
BI-Central - 10	Hydraulic 40 Ton Crane	Crane	36	14	3	Diesel	300	0.29		
BI-Central - 10	Hydraulic 25 Ton Crane	Crane	76.47	14	5	Diesel	100	0.29		
BI-Central - 11	Dewater Pump 6"	Pump	400	7	57	Diesel	50	0.74		
BI-Central - 11	150 KW Diesel Generator	Generator	100	7	14	Diesel Tier 4	183	0.74		
BI-Central - 11	Hydraulic 15 Ton Crane	Crane	100	7	14	Diesel	100	0.29		
BI-Central - 12	Manitowoc 777 200 Ton Crane	Crane	35.5	6	6	Diesel	760	0.29		
BI-Central - 12	250 CFM Compressor Diesel	Air Compressor	8.2	6	1	Diesel Tier 3	75	0.48		
BI-Central - 12	Trailer Conc Pump 100 CY HR	Pump	8.2	6	1	Diesel	200	0.74		
BI-Central - 13	250 CFM Compressor Diesel	Air Compressor	235.5	19	12	Diesel Tier 3	75	0.48		
BI-Central - 13	Manitowoc 777 200 Ton Crane	Crane	235.5	19	12	Diesel	760	0.29		
BI-Central - 14	250 CFM Compressor Diesel	Air Compressor	357	35	10	Diesel Tier 3	75	0.48		
BI-Central - 14	Trailer Conc Pump 100 CY HR	Pump	179.5	35	5	Diesel	200	0.74		
BI-Central - 14	Manitowoc 777 200 Ton Crane	Crane	102	35	3	Diesel	760	0.29		
BI-Central - 14	Manitowoc 999-275 Ton Crane	Crane	255	35	7	Diesel	900	0.29		
BI-Central - 15	Hydraulic 9 Ton Crane	Crane	40	22	2	Diesel	85	0.29		
BI-Central - 15	Hydraulic 40 Ton Crane	Crane	40	22	2	Diesel	300	0.29		
BI-Central - 15	CAT Forklift 5,500 LB	Aerial Lift	40	22	2	Diesel	63	0.31		
BI-Central - 18	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lift	80	5	16	Diesel	75	0.31		
BI-Central - 18	Grove RT Crane 80T, 275hp	Crane	80	5	16	Diesel	275	0.29		
BI-Central - 18	Boom Truck, 12.5 Tn Boom	Crane	40	5	8	Diesel or Hybrid	100	0.29		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Bacon Island - Central Tunnel Shaft
Options 1A, 1B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
BI-Central - 1	Electric Welder 400 AMP	400	15	15	400
BI-Central - 18	Electric Welder 400 AMP	80	5	15	240

Vehicle Inventory for Bacon Island - Central Tunnel Shaft
Options 1A, 1B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
BI-Central - 1	Pickup, 1/2T, 2wd	Materials from Stockton	15	400	0.8	522	35	Bacon I Shaft to/from Stockton	23	46	Hybrid Gasoline	
BI-Central - 1	Truck Flatbed 4 T Highway	Materials from Stockton	15	8	0.8	10	1	Bacon I Shaft to/from Stockton	23	46	Diesel	
BI-Central - 1	Truck Flatbed 4 T Highway	Batch Plant from Stockton	15	15	0.8	20	1	Bacon I Shaft to/from Stockton	23	46	Diesel	
BI-Central - 1	Truck, Flatbed, 10T, Hwy	Two Cranes to and from Stockton	2	2	0.8	2	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
BI-Central - 2	Truck, Flatbed, 10T, Hwy	Scraper to and from Stockton	2	2	0.8	2	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
BI-Central - 2	Truck, Flatbed, 10T, Hwy	Dozer and Grader from Stockton	1	2	0.8	2	2.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
BI-Central - 3	Pickup 1/2T 2 WD	Materials from Stockton	125	2207	0.8	2879	23	Bacon I Shaft to/from Stockton	23	46	Hybrid Gasoline	
BI-Central - 3	Truck Flatbed 4 T Highway	Materials from Stockton	125	2207	0.8	2879	23	Bacon I Shaft to/from Stockton	23	46	Diesel	
BI-Central - 3	Mechanic Truck	Materials from Stockton	125	2207	0.8	2879	23	Bacon I Shaft to/from Stockton	23	46	Diesel	
BI-Central - 3	Truck, Flatbed, 10T, Hwy	Crane, Trencher, Loader, & Other Equipment to and from Stockton	2	5	0.8	6	3.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
BI-Central - 3	Highway Dump Truck 18 CY	Ground Treatment Cement from Stockton	125	423	0.8	552	4	Bacon I Shaft to/from Stockton	23	46	Diesel	
BI-Central - 4	Highway Dump Truck 18 CY	Materials from Stockton	190	2819.87	0.8	3678	19	Bacon I Shaft to/from Stockton	23	46	Diesel	
BI-Central - 4	Truck' End Dump' 16-20cy' Hwy	RTM Material in Covered Trucks from Twin Cities Complex	190	15441	1.9	8272	44	Bacon I Shaft to/from Twin Cities Complex	56	112	Diesel	
BI-Central - 4	Truck, Flatbed, 10T, Hwy	Roller to and from Stockton	2	2	0.8	2	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
BI-Central - 4	Truck, Flatbed, 10T, Hwy	Dozer and Crawler Tractor to Stockton	1	2	0.8	2	2.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
BI-Central - 5	Truck, Flatbed, 10T, Hwy	Excavator, Crane and Loader from Stockton	1	2	0.8	3	3.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
BI-Central - 5	Truck Flatbed 4 T Highway	Rebar from Livermore	14	1	1.5	1	0	Bacon I Shaft to/from Livermore	44	88	Diesel	
BI-Central - 5	Concrete Transit Mix Truck' 12cy	Concrete for Ground Improvement from Bacon Island	14	0.8	0.0	23	2	Bacon I Shaft from Bacon I Concrete Batch Plant	1	2	Diesel	
BI-Central - 7	Truck Flatbed 4 T Highway	Rebar from Livermore	40	38	1.5	26	1	Bacon I Shaft to/from Livermore	44	88	Diesel	
BI-Central - 7	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	1	0.8	1	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
BI-Central - 7	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	2	0.8	2	2.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
BI-Central - 7	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	40	436	2.2	195	5	Bacon I Shaft to/from Sacramento	67	134	Diesel	
BI-Central - 7	Concrete Transit Mix Truck' 12cy	Concrete for Ground Improvement from Bacon Island	40	20.1	0.0	604	15	Bacon I Shaft from Bacon I Concrete Batch Plant	1	2	Diesel	
BI-Central - 8	Truck, Flatbed, 10T, Hwy	Excavator and Loader to Stockton	1	2	0.8	2	2.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
BI-Central - 8	Truck Flatbed 4 T Highway	Rebar from Livermore	43	1	1.5	1	0	Bacon I Shaft to/from Livermore	44	88	Diesel	
BI-Central - 10	Truck Flatbed 4 T Highway	Rebar from Livermore	14	10	1.5	7	1	Bacon I Shaft to/from Livermore	44	88	Diesel	
BI-Central - 10	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	1	0.8	1	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
BI-Central - 10	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	1	0.8	1	0.5	Bacon I Shaft to/from Stockton	23	46	Diesel	
BI-Central - 10	Concrete Transit Mix Truck' 12cy	Concrete for Ground Improvement from Bacon Island	14	16.1	0.0	484	35	Bacon I Shaft from Bacon I Concrete Batch Plant	1	2	Diesel	
BI-Central - 11	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	2	0.8	2	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
BI-Central - 12	Truck Flatbed 4 T Highway	Rebar from Livermore	6	4	1.5	3	0.5	Bacon I Shaft to/from Livermore	44	88	Diesel	
BI-Central - 12	Concrete Transit Mix Truck' 12cy	Concrete for Ground Improvement from Bacon Island	6	1.2	0.0	35	6	Bacon I Shaft from Bacon I Concrete Batch Plant	1	2	Diesel	
BI-Central - 13	Truck Flatbed 4 T Highway	Rebar from Livermore	19	6	1.5	4	0.2	Bacon I Shaft to/from Livermore	44	88	Diesel	
BI-Central - 14	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	1	0.8	1	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
BI-Central - 14	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	2	0.8	2	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
BI-Central - 14	Concrete Transit Mix Truck' 12cy	Concrete for Ground Improvement from Bacon Island	35	9.2	0.0	277	8	Bacon I Shaft from Bacon I Concrete Batch Plant	1	2	Diesel	
BI-Central - 15	Highway Flatbed 10 Ton	Materials from Stockton	22	50	0.8	65	3	Bacon I Shaft to/from Stockton	23	46	Diesel	
BI-Central - 15	Truck, Flatbed, 10T, Hwy	Two Cranes to and from Stockton	2	3	0.8	4	2.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
BI-Central - 15	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	1	0.8	1	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
BI-Central - 16	Pickup, 1/2T, 2wd	Materials from Stockton	500	2883	0.8	3760	8	Bacon I Shaft to/from Stockton	23	46	Hybrid Gasoline	
BI-Central - 16	Truck Flatbed 4 T Highway	Materials from Stockton	500	107	0.8	139	0	Bacon I Shaft to/from Stockton	23	46	Diesel	
BI-Central - 16	Highway Dump Truck 18 CY	Cement from Stockton	500	387	0.8	505	1	Bacon I Shaft to/from Stockton	23	46	Diesel	
BI-Central - 16	Highway Dump Truck 18 CY	Concrete Aggregate from Stockton	500	724	0.8	944	2	Bacon I Shaft to/from Stockton	23	46	Diesel	
BI-Central - 16	Highway Dump Truck 18 CY	Concrete Sand from Stockton	500	577	0.8	753	2	Bacon I Shaft to/from Stockton	23	46	Diesel	
BI-Central - 16	Highway Dump Truck 18 CY	Flyash from Vernalis	500	108	1.4	77	0	Bacon I Shaft to/from Vernalis	42	84	Diesel	
BI-Central - 17	Truck, Flatbed, 10T, Hwy	Two Cranes and Aerial Lift to and from Stockton	2	5	0.8	6	3.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site										Miles On-Site		
BI-Central - 5	CAT 730 Rear Dump	Dumper	14	18	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		92	Diesel or Hybrid	
BI-Central - 7	CAT 730 Rear Dump	Dumper	40	255.36	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1277	Diesel or Hybrid	
BI-Central - 7	Articulated Rear Dump 22 CY/CAT 730 Concrete Pump Truck	Dumper	40	224	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1120	Diesel or Hybrid	
BI-Central - 7	Concrete Pump Truck	Off-Highway Truck	40	448	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2240	Diesel	
BI-Central - 9	Trucking Off Highway CAT 730	Dumpers	47	1125	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		5625	Diesel	
BI-Central - 10	Concrete Pump Truck	Off-Highway Truck	14	76	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		380	Diesel	

Employees Required to Bacon Island - Central Tunnel Shaft
Options 1A, 1B

Code	Employee Type	Hours	# WorkDay		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
BI-Central - 1	Carpenter Apprentice	400	10		Stockton to/from Bacon I Shaft	23
BI-Central - 1	Carpenter Foreman	400	10		Stockton to/from Bacon I Shaft	23
BI-Central - 1	Millwright	400	10		Stockton to/from Bacon I Shaft	23
BI-Central - 1	Electrical Foreman	200	10		Stockton to/from Bacon I Shaft	23
BI-Central - 1	Electrician Journeyman	400	10		Stockton to/from Bacon I Shaft	23
	Iron Worker Journeyman	800				
BI-Central - 1	Rebar/Struct		10		Stockton to/from Bacon I Shaft	23
BI-Central - 1	Laborer G2 General	800	10		Stockton to/from Bacon I Shaft	23
BI-Central - 1	Operator G2a Cranes 45 to 100 t	400	10		Stockton to/from Bacon I Shaft	23
BI-Central - 1	Teamster G3 Boom Truck	200	10		Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-1						
BI-Central - 2	General Foreman	23.22	10		Stockton to/from Bacon I Shaft	23
BI-Central - 2	Dozer Operator	46.44	10		Stockton to/from Bacon I Shaft	23
BI-Central - 2	Grader Operator	46.44	10		Stockton to/from Bacon I Shaft	23
BI-Central - 2	Operator G4 Grade Check	23.22	10		Stockton to/from Bacon I Shaft	23
BI-Central - 2	Scraper Operator	92.88	10		Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-2						
BI-Central - 3	Laborer G2 General	6621	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Operator G3a Crane	2207	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Operator G3 BH Loader	2207	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Operating Engineer	2207	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Operator G4 Grade Check	2207	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Operator G4 Heavy Duty Mechanic	2207	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Operator G2 Plant Operator	4414	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Teamster G1 Hwy	2207	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Teamster G2 Hwy	2207	10		Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-3						
BI-Central - 4	Grade Setter / Checker	2819.87	10		Stockton to/from Bacon I Shaft	23
BI-Central - 4	Water Truck Highway	2819.87	10		Stockton to/from Bacon I Shaft	23
BI-Central - 4	Compactor Operator	2819.87	10		Stockton to/from Bacon I Shaft	23
BI-Central - 4	Dozer Operator	2819.87	10		Stockton to/from Bacon I Shaft	23
BI-Central - 4	Grader Operator	2819.87	10		Stockton to/from Bacon I Shaft	23
BI-Central - 4	Truck Driver	2819.87	10		Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-4						
BI-Central - 5	Shifter	6	10		Stockton to/from Bacon I Shaft	23
BI-Central - 5	Lead Miner	6	10		Stockton to/from Bacon I Shaft	23
BI-Central - 5	Miner	6	10		Stockton to/from Bacon I Shaft	23
BI-Central - 5	Loader Operator	6	10		Stockton to/from Bacon I Shaft	23
BI-Central - 5	Excavator Operator	6	10		Stockton to/from Bacon I Shaft	23
BI-Central - 5	Truck Driver	17.94	10		Stockton to/from Bacon I Shaft	23
BI-Central - 5	Carpenter	353.39	10		Stockton to/from Bacon I Shaft	23
BI-Central - 5	Carpenter Foreman	88.35	10		Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-5						
BI-Central - 6	General Laborer	10.9	10		Stockton to/from Bacon I Shaft	23
BI-Central - 6	Carpenter	94.95	10		Stockton to/from Bacon I Shaft	23
BI-Central - 6	Carpenter Foreman	23.74	10		Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-6						
BI-Central - 7	General Laborer	2464	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	General Foreman	448	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Mechanic Welder	448	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Shaft Crane Operator	448	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Crane Oiler	448	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Truck Driver	255.36	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Loader Operator	224	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Slurry Wall Consultant	224	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Shifter	448	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Lead Miner	224	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Miner	1792	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Hyd Crane Operator	448	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Iron Worker Foreman	448	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Iron Worker	2240	24		Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-7						
BI-Central - 8	Hydraulic Excavator to 3.5	235.5	24		Stockton to/from Bacon I Shaft	23
BI-Central - 8	Loader Operator	235.5	24		Stockton to/from Bacon I Shaft	23
BI-Central - 8	Excavator Operator	235.5	24		Stockton to/from Bacon I Shaft	23

BI-Central - 8	Hyd Track Drill	235.5	24	Stockton to/from Bacon I Shaft	23
BI-Central - 8	General Laborer	735.78	24	Stockton to/from Bacon I Shaft	23
BI-Central - 8	General Foreman	235.5	24	Stockton to/from Bacon I Shaft	23
BI-Central - 8	Carpenter	33.2	24	Stockton to/from Bacon I Shaft	23
BI-Central - 8	Carpenter Foreman	8.3	24	Stockton to/from Bacon I Shaft	23
BI-Central - 8	Iron Worker Foreman	12.68	24	Stockton to/from Bacon I Shaft	23
BI-Central - 8	Iron Worker	50.74	24	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-8					
BI-Central - 9	Shaft Crane Operator	225	24	Stockton to/from Bacon I Shaft	23
BI-Central - 9	Toplander	225	24	Stockton to/from Bacon I Shaft	23
BI-Central - 9	Diver Contractor	200	24	Stockton to/from Bacon I Shaft	23
BI-Central - 9	Crane Oiler	225	24	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-9					
BI-Central - 10	Diver Contractor	138.74	24	Stockton to/from Bacon I Shaft	23
BI-Central - 10	Shifter	166.12	24	Stockton to/from Bacon I Shaft	23
BI-Central - 10	Lead Miner	19.12	24	Stockton to/from Bacon I Shaft	23
BI-Central - 10	Miner	446.95	24	Stockton to/from Bacon I Shaft	23
BI-Central - 10	Hyd Crane Operator	223.47	24	Stockton to/from Bacon I Shaft	23
BI-Central - 10	Toplander	255	24	Stockton to/from Bacon I Shaft	23
BI-Central - 10	Bottomlander	111	24	Stockton to/from Bacon I Shaft	23
BI-Central - 10	Iron Worker Foreman	147	24	Stockton to/from Bacon I Shaft	23
BI-Central - 10	Iron Worker	1176	24	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-10					
BI-Central - 11	Shifter	100	24	Stockton to/from Bacon I Shaft	23
BI-Central - 11	Lead Miner	100	24	Stockton to/from Bacon I Shaft	23
BI-Central - 11	Miner	800	24	Stockton to/from Bacon I Shaft	23
BI-Central - 11	Hyd Crane Operator	100	24	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-11					
BI-Central - 12	Shifter	35.53	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Miner	120.27	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Shaft Crane Operator	35.53	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Toplander	35.53	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Crane Oiler	35.53	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Iron Worker	218.67	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Iron Worker Foreman	27.33	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Lead Miner	8.2	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Mechanic Welder	8.2	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Electrician	8.2	10	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-12					
BI-Central - 13	Shaft Crane Operator	235.5	10	Stockton to/from Bacon I Shaft	23
BI-Central - 13	Toplander	235.5	10	Stockton to/from Bacon I Shaft	23
BI-Central - 13	Bottomlander	235.5	10	Stockton to/from Bacon I Shaft	23
BI-Central - 13	Crane Oiler	235.5	10	Stockton to/from Bacon I Shaft	23
BI-Central - 13	Iron Worker	1884	10	Stockton to/from Bacon I Shaft	23
BI-Central - 13	Iron Worker Foreman	235.5	10	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-13					
BI-Central - 14	Shifter	357	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Lead Miner	357	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Miner	2756	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Mechanic / Welder	229.5	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Shaft Crane Operator	357	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Toplander	357	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Bottomlander	102	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Crane Oiler	357	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Concrete Pump Operator	305	10	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-14					
BI-Central - 15	Bullgang Foreman	40	10	Stockton to/from Bacon I Shaft	23
BI-Central - 15	Bullgang Laborer	80	10	Stockton to/from Bacon I Shaft	23
BI-Central - 15	Mechanic / Welder	40	10	Stockton to/from Bacon I Shaft	23
BI-Central - 15	Hyd Crane Operator	80	10	Stockton to/from Bacon I Shaft	23
BI-Central - 15	Flat Truck Driver	40	10	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-15					
BI-Central - 16	Shifter	1200	10	Stockton to/from Bacon I Shaft	23
BI-Central - 16	Lead Miner	1200	10	Stockton to/from Bacon I Shaft	23
BI-Central - 16	Miner	7200	10	Stockton to/from Bacon I Shaft	23
BI-Central - 16	Mechanic / Welder	1200	10	Stockton to/from Bacon I Shaft	23
BI-Central - 16	Electrician	1200	10	Stockton to/from Bacon I Shaft	23
BI-Central - 16	TBM Operator	2400	10	Stockton to/from Bacon I Shaft	23
BI-Central - 16	Conveyor Belt Man	1200	10	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-16					
BI-Central - 17	Heavy Duty Mechanic Welder	112	10	Stockton to/from Bacon I Shaft	23
BI-Central - 17	Foreman Operator	112	10	Stockton to/from Bacon I Shaft	23

BI-Central - 17	Hyd Crane Operator	112	10	Stockton to/from Bacon I Shaft	23
BI-Central - 17	Iron Worker Foreman	112	10	Stockton to/from Bacon I Shaft	23
BI-Central - 17	Iron Worker	672	10	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-17					
BI-Central - 18	Heavy Duty Mechanic Welder	84	10	Stockton to/from Bacon I Shaft	23
BI-Central - 18	Foreman Operator	84	10	Stockton to/from Bacon I Shaft	23
BI-Central - 18	Hyd Crane Operator	84	10	Stockton to/from Bacon I Shaft	23
BI-Central - 18	Iron Worker Foreman	84	10	Stockton to/from Bacon I Shaft	23
BI-Central - 18	Iron Worker	504	10	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-17					

TOTAL BI-Central-17

Options 1A, 1B

NOT NEEDED

Locomotive Inventory for Bacon Island - Central Tunnel Shaft Options 1A, 1B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
NOT NEEDED								

**Helicopter Inventory for Bacon Island - Central Tunnel Shaft
Options 1A, 1B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Bacon Island - Central Tunnel Shaft Options 1A, 1B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
BI-Central - 2	15	5	3	11704	2341						
BI-Central - 4		190				74226	391				
BI-Central - 5		14		392	28						
BI-Central - 6		1				218	218				
BI-Central - 7		40		5268	132	5268	132				
BI-Central - 8		43				52	1				
BI-Central - 9		47		25420	541						
BI-Central - 10		14				4592	328				
BI-Central - 12		6				328	55				
BI-Central - 14		35				2134	61				

Demolition Assumptions for Bacon Island - Central Tunnel Shaft
Options 1A, 1B

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Bethany Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Excavation	BethanyPR-1	10/29/2026	11/3/2026	5	5	10
Culvert Pipe	BethanyPR-2	11/4/2026	11/4/2026	1	1	10
Subdrain System	BethanyPR-3	11/5/2026	11/5/2026	1	1	10
Road Base	BethanyPR-4	11/6/2026	11/9/2026	4	4	10
Asphalt Paving	BethanyPR-5	11/10/2026	11/11/2026	2	2	10
Electrical, Striping, and K-Rail Installation	BethanyPR-6	11/12/2026	11/12/2026	1	1	10

Acres2.6

Offroad Equipment (Fossil Fuel) Inventory for Bethany Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day) (if known)	Fuel (gal/day) (if known)
BethanyPR-1	CAT D6LGPDdozer w winch	Crawler Tractor	31.4	5	6	Diesel Tier 4 or Hybrid Dies	179	0.43		
BethanyPR-1	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	31.4	5	6	Diesel	384	0.38		
BethanyPR-2	Air Compressor 375 cfm	Air Compressor	3.6	1	4	Diesel Tier 4	122	0.48		
BethanyPR-2	CAT LOADER/HOE 416 E	Rubber Tired Loader	7.2	1	7	Diesel	78	0.36		
BethanyPR-2	Compactor, Plate, 22" w x 35"	Plate Compactor	3.6	1	4	Diesel	8.5	0.43		
BethanyPR-3	CAT LOADER/HOE 416 E	Rubber Tired Loader	1.1	1	1	Diesel	78	0.36		
BethanyPR-3	Compactor, Trench Roller, Vib 32"w	Roller	2.2	1	2	Diesel	20	0.38		
BethanyPR-4	CAT 14 M	Grader	26.4	4	7	Diesel	274	0.41		
BethanyPR-4	Water Pump, 4" Diesel	Pumps	26.4	4	7	Diesel	10	0.74		
BethanyPR-4	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	26.4	4	7	Diesel	156	0.38		
BethanyPR-5	CAT LOADER/HOE 416 E	Rubber Tired Loader	29.8	2	15	Diesel	78	0.36		
BethanyPR-5	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	29.8	2	15	Diesel or Hybrid	224	0.42		
BethanyPR-5	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	29.8	2	15	Diesel or Hybrid	137	0.38		
BethanyPR-5	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	29.8	2	15	Diesel or Hybrid	133	0.38		
BethanyPR-6	CAT LOADER/HOE 416 E	Rubber Tired Loader	2.5	1	2	Diesel	78	0.36		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Bethany Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
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NOT NEEDED

Vehicle Inventory for Bethany Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint)	# day	Vehicle Hours	Hours/trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day)
Vehicle Use on Paved Roads --- and Not on Construction Site												
BethanyPR-1	Pickup, 1/2T, 2wd	Materials from Stockton	5	16	1.1	15	3	Bethany PR to/fromStockton	32	64	Hybrid Gasoline	
BethanyPR-1	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	5	94	1.1	88	18	Bethany PR to/fromStockton	32	64	Diesel	
BethanyPR-1	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	5	16	1.1	15	3	Bethany PR to/fromStockton	32	64	Diesel	
BethanyPR-1	Truck, End Dump, 10-13cy, Hwy	Gravel from Vernalis	5	98	0.7	140	21	Bethany PR to/fromVernalis	21	42	Diesel	
BethanyPR-1	Truck, Flatbed, 10T, Hwy	Crawler Tractor & Excavator to and from Stockton	2	4	1.1	4	2.0	Bethany PR to/fromStockton	32	64	Diesel	
BethanyPR-2	Truck, Flatbed, 10T, Hwy	Materials from Stockton	1	4	1.1	3	3	Bethany PR to/fromStockton	32	64	Diesel	
BethanyPR-2	Truck, Water, 4 mgal, Hwy	Water from Tracy	1	2	0.5	3	3	Bethany PR to/fromTracy	16	32	Diesel	
BethanyPR-2	Truck, Flatbed, 10T, Hwy	HOE 416 E Loader from Stockton	1	1	1.1	1	1.0	Stockton to/fromBethany PR	32	64	Diesel	
BethanyPR-2	Truck, End Dump, 10-13cy, Hwy	Gravel from Vernalis	1	1	0.7	1	21	Bethany PR to/fromVernalis	21	42	Diesel	
BethanyPR-3	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	1	2	1.1	2	2	Bethany PR to/fromStockton	32	64	Diesel	
BethanyPR-3	Truck, End Dump, 10-13cy, Hwy	Gravel from Vernalis	1	1	0.7	1	21	Bethany PR to/fromVernalis	21	42	Diesel	
BethanyPR-4	Pickup, 3/4T, 4wd	Materials from Stockton	4	26	1.1	25	6	Bethany PR to/fromStockton	32	64	Hybrid Gasoline	
BethanyPR-4	Truck, End Dump, 10-13cy, Hwy	Base Rock from Vernalis	4	442	1.1	414	104	Bethany PR to/fromVernalis	32	64	Diesel	
BethanyPR-4	Truck, Water, 4 mgal, Hwy	Water from Tracy	4	9	0.5	17	4	Bethany PR to/fromTracy	16	32	Diesel	
BethanyPR-4	Truck, Flatbed, 10T, Hwy	Grader and Loader to and from Stockton	2	4	1.1	4	2.0	Bethany PR to/fromStockton	32	64	Diesel	
BethanyPR-5	Truck & Bottom Dump' 21cy' 30T	Materials from Stockton	2	204	1.1	191	96	Bethany PR to/fromStockton	32	64	Diesel Tier 4	
BethanyPR-5	Truck, Water, 4 mgal, Hwy	Water from Tracy	2	1	0.5	1	1	Bethany PR to/fromTracy	16	32	Diesel	
BethanyPR-5	Truck & Bottom Dump' 21cy' 30T	Asphalt, Hot Mix Materials from Vernalis	2	89.6	1.1	84	42	Bethany PR to/fromVernalis	32	64	Diesel Tier 4	
BethanyPR-5	Ready-Mix Concrete Truck	Concrete for Bus Parking Lot from Tracy	2	31.5	0.5	59	30	Bethany PR to/fromTracy	16	32	Diesel Tier 4	
BethanyPR-5	Truck, Flatbed, 10T, Hwy	Paver and two Rollers to and from Stockton	2	6	1.1	6	3.0	Bethany PR to/fromStockton	32	64	Diesel	
BethanyPR-6	Boom Truck, 12.5 Tn Boom	Materials from Stockton	1	2	1.1	2	2	Bethany PR to/fromStockton	32	64	Diesel or Hybrid	
BethanyPR-6	Truck, Flatbed, 10T, Hwy	HOE 416 E Loader to Stockton	1	1	1.1	1	1.0	Bethany PR to/fromStockton	32	64	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site												
BethanyPR-1	CAT 730 30T, Articulated End Dump	Driven on construction site	5	94	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		470	Diesel Tier 4 or Hybrid Diesel	

Employees Required to Bethany Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip
BethanyPR-1	Operator G4 Dozer & Push Cat	29.03	10		Stockton to/from Bethany PR	32
BethanyPR-1	Operator G2 Excavator 3.5 to 7.0 cu yd	29.03	10		Stockton to/from Bethany PR	32
BethanyPR-1	OPERATING ENGINEER FOREMAN	14.51	10		Stockton to/from Bethany PR	32
BethanyPR-1	Teamster G2 Hwy ED 6-8cy, Water<7mi	87.08	10		Stockton to/from Bethany PR	32
BethanyPR-1	Teamster G3 ED 8-24cy, Water<7mi	87.08	10		Stockton to/from Bethany PR	32
TOTAL BethanyPR-1						
BethanyPR-2	Laborer G1 Pipe layers	13.33	10		Stockton to/from Bethany PR	32
BethanyPR-2	Laborer Foreman	3.33	10		Stockton to/from Bethany PR	32
BethanyPR-2	Operator G3 BH-Loader>3/4cy	6.67	10		Stockton to/from Bethany PR	32
BethanyPR-2	Teamster G1 Hwy ED<6cy, Flatbed	5	10		Stockton to/from Bethany PR	32
BethanyPR-2	Teamster G2 Hwy ED 6-8cy, Water<7mi	1.67	10		Stockton to/from Bethany PR	32
TOTAL BethanyPR-2						
BethanyPR-3	Laborer G1 Pipe layers	3	10		Stockton to/from Bethany PR	32
BethanyPR-3	Laborer G1 Power Tamper	1.5	10		Stockton to/from Bethany PR	32
BethanyPR-3	Operator G4 Loader <4.1cy	0.75	10		Stockton to/from Bethany PR	32
BethanyPR-3	Teamster G2 Hwy ED 6-8cy, Water<7mi	1.5	10		Stockton to/from Bethany PR	32
TOTAL BethanyPR-3						
BethanyPR-4	Laborer G3 Flagman	48.86	10		Stockton to/from Bethany PR	32
BethanyPR-4	Operator G7 Roller, Compactor	24.43	10		Stockton to/from Bethany PR	32
BethanyPR-4	OPERATING ENGINEER FOREMAN	24.43	10		Stockton to/from Bethany PR	32
BethanyPR-4	Operator G4 Grade Check	24.43	10		Stockton to/from Bethany PR	32
BethanyPR-4	Operator G2 Finish Blade	24.43	10		Stockton to/from Bethany PR	32
BethanyPR-4	Operator G8 Generator	4.89	10		Stockton to/from Bethany PR	32
BethanyPR-4	Teamster G2 Hwy ED 6-8cy, Water<7mi	24.43	10		Stockton to/from Bethany PR	32
TOTAL BethanyPR-4						
BethanyPR-5	Laborer G2 General	110.47	10		Stockton to/from Bethany PR	32
BethanyPR-5	Operator G5 Asphalt Roller	55.24	10		Stockton to/from Bethany PR	32
BethanyPR-5	Operator G3 BH-Loader>3/4cy	27.62	10		Stockton to/from Bethany PR	32
BethanyPR-5	OPERATING ENGINEER FOREMAN	27.62	10		Stockton to/from Bethany PR	32
BethanyPR-5	Operator G4 Grade Check	27.62	10		Stockton to/from Bethany PR	32
BethanyPR-5	Operator G5 Paver	27.62	10		Stockton to/from Bethany PR	32
BethanyPR-5	Teamster G2 Hwy ED 6-8cy, Water<7mi	13.81	10		Stockton to/from Bethany PR	32
TOTAL BethanyPR-5						
BethanyPR-6	Iron Worker-Rigger	2.27	10		Stockton to/from Bethany PR	32
BethanyPR-6	Laborer G2 General	9.09	10		Stockton to/from Bethany PR	32
BethanyPR-6	Operator G4a Boom truck<15 ton	2.27	10		Stockton to/from Bethany PR	32
BethanyPR-6	Operator G3 BH-Loader>3/4cy	2.27	10		Stockton to/from Bethany PR	32
BethanyPR-6	OPERATING ENGINEER FOREMAN	2.27	10		Stockton to/from Bethany PR	32
BethanyPR-6	Teamster G3 Boom Truck	2.27	10		Stockton to/from Bethany PR	32
TOTAL BethanyPR-6						

Marine Inventory for Bethany Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Bethany Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

Helicopter Inventory for Bethany Park and Ride

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Bethany Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day)	Dredge (cy/day)	Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
BethanyPR-1	2.6	5	0.5	3448.44	690						Not applicable		
BethanyPR-4		4											
BethanyPR-5		2				3430.08	858					147646.8	73823

Demolition Assumptions for Bethany Park and Ride

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Byron Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	BPR -1	8/18/2026	9/4/2026	13	5	10
Embankment	BPR -2	9/7/2026	9/8/2026	2	2	10
Culvert Pipe	BPR -3	9/9/2026	9/14/2026	3	3	10
Subdrain System	BPR -4	9/15/2026	9/21/2026	5	5	10
Road Base	BPR -5	9/22/2026	10/8/2026	12	5	10
Asphalt Paving	BPR -6	10/9/2026	10/23/2026	10	5	10
Electrical, Striping, and K-Rail Installation	BPR -7	10/26/2026	10/29/2026	3	3	10
Acres		2.91				

Offroad Equipment (Fossil Fuel) Inventory for Byron Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
BPR -1	CAT D6LGPDozer w winch	Crawler Tractor	69.94	13	5	Diesel Tier 4 or Hybrid Dies	179		0.43	
BPR -1	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	69.94	13	5	Diesel	384		0.38	
BPR -2	CAT D6LGPDozer w winch	Crawler Tractor	7.75	2	4	Diesel Tier 4 or Hybrid Dies	179		0.43	
BPR -2	Disk, Towed	Off-Highway Tractor	7.75	2	4	Diesel	140		0.44	
BPR -2	CAT 14 M	Grader	3.87	2	2	Diesel	274		0.41	
BPR -2	Water Pump, 4" Diesel	Pumps	0.93	2	0	Diesel	10		0.74	
BPR -2	CAT 815, Roller	Roller	7.75	2	4	Diesel	170		0.38	
									0.74	
BPR -3	Air Compressor 375 cfm									
BPR -3	CAT LOADER/HOE 416 E	Air Compressor	4.02	3	1	Diesel Tier 4	122		0.48	
BPR -3	Compactor, Plate, 22" w x 35"	Rubber Tired Loader	8.03	3	3	Diesel	78		0.36	
BPR -3		Plate Compactor	4.02	3	1	Diesel	8.5		0.43	
BPR -4	CAT LOADER/HOE 416 E									
BPR -4	Compactor, Trench Roller, Vib 32" w	Rubber Tired Loader	0.9	5	0	Diesel	78		0.36	
BPR -4		Roller	1.81	5	0	Diesel	20		0.38	
	CAT 14 M									
BPR -5	Water Pump, 4" Diesel	Grader	31.52	12	3	Diesel	274		0.41	
BPR -5	CAT CS-64, Roller, 15.7 tn, 156HP	Pumps	31.52	12	3	Diesel	10		0.74	
BPR -5		Roller	31.52	12	3	Diesel	156		0.38	
	CAT LOADER/HOE 416 E									
BPR -6	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Rubber Tired Loader	35.75	10	4	Diesel	78		0.36	
BPR -6	Asphalt Rollier, 2 Drum 12tn, 137hp	Paver	35.75	10	4	Diesel or Hybrid	224		0.42	
BPR -6	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	35.75	10	4	Diesel or Hybrid	137		0.38	
BPR -6		Roller	35.75	10	4	Diesel or Hybrid	133		0.38	
BPR -7	CAT LOADER/HOE 416 E									
BPR -7		Rubber Tired Loader	2.89	3	1	Diesel	78		0.36	

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Byron Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
BPR -2	Light Plant, 4 lite, 1000w, Tower/Mast	31 hours	2		

Vehicle Inventory for Byron Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Vehicle	Primary Trip Purpose/Location (within)	#day	Vehicle Hours	Hours/trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day)
Vehicle Use on Paved Roads --- and Not on Construction Site												
BPR-1	Pickup, 1/2T, 2wd	Materials from Stockton	13	35	1.1	33	3	Byron PR to/from Stockton	32	64	Hybrid Gasoline	
BPR-1	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	13	210	1.1	197	15	Byron PR to/from Stockton	32	64	Diesel	
BPR-1	Truck, Water, 4-mail, Hwy	Water from Tracy	13	1	0.5	1	0	Byron PR to/from Tracy	16	32	Diesel	
BPR-1	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	13	42	1.1	39	3	Byron PR to/from Stockton	32	64	Diesel	
BPR-1	Truck, Flatbed, 10T, Hwy	Crawler Tractor from Stockton	1	1	1.1	1	1.0	Byron PR to/from Stockton	32	64	Diesel	
BPR-1	Truck, Flatbed, 10T, Hwy	Excavator to and from Stockton	2	2	1.1	2	1.0	Byron PR to/from Stockton	32	64	Diesel	
BPR-2	Pickup, 1/2T, 2wd	Materials from Stockton	2	8	1.1	7	4	Byron PR to/from Stockton	32	64	Hybrid Gasoline	
BPR-2	Truck, Water, 4 mgal, Hwy	Water from Tracy	2	5	0.5	10	5	Byron PR to/from Tracy	16	32	Diesel	
BPR-2	Truck, End Dump, 10-13cy, Hwy	Gravel from Vernalis	2	99	0.7	145	21	Byron PR to/from Vernalis	21	42	Diesel	
BPR-2	Truck, Flatbed, 10T, Hwy	Grader from Stockton	1	1	1.1	1	1.0	Byron PR to/from Stockton	32	64	Diesel	
BPR-2	Truck, Flatbed, 10T, Hwy	Crawler Tractor to Stockton	1	1	1.1	1	1.0	Byron PR to/from Stockton	32	64	Diesel	
BPR-2	Truck, Flatbed, 10T, Hwy	Tractor and Roller to and from Stockton	2	2	1.1	2	1.0	Byron PR to/from Stockton	32	64	Diesel	
BPR-3	Truck, Flatbed, 10T, Hwy	Materials from Stockton	3	4	1.1	4	1	Byron PR to/from Stockton	32	64	Diesel	
BPR-3	Truck, End Dump, 10-13cy, Hwy	Gravel from Vernalis	3	1	0.7	1	21	Byron PR to/from Vernalis	21	42	Diesel	
BPR-3	Truck, Flatbed, 10T, Hwy	Loader from Stockton	1	1	1.1	1	1.0	Byron PR to/from Stockton	32	64	Diesel	
BPR-3	Truck, Flatbed, 10T, Hwy	Plate Compactor to and from Stockton	2	2	1.1	2	1.0	Byron PR to/from Stockton	32	64	Diesel	
BPR-4	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	5	2	1.1	2	0.3	Byron PR to/from Stockton	32	64	Diesel	
BPR-4	Truck, End Dump, 10-13cy, Hwy	Gravel from Vernalis	5	1	0.7	1	21	Byron PR to/from Vernalis	21	42	Diesel	
BPR-4	Truck, Flatbed, 10T, Hwy	Trench Roller to and from Stockton	2	2	1.1	2	1.0	Byron PR to/from Stockton	32	64	Diesel	
BPR-5	Pickup, 3/4T, 4wd	Materials from Stockton	12	32	1.1	30	2	Byron PR to/from Stockton	32	64	Hybrid Gasoline	
BPR-5	Truck, End Dump, 10-13cy, Hwy	Base Rock from Vernalis	12	261	0.7	373	21	Byron PR to/from Vernalis	21	42	Diesel	
BPR-5	Truck, Water, 4-mail, Hwy	Water from Tracy	12	13	0.5	25	2	Byron PR to/from Tracy	16	32	Diesel	
BPR-5	Truck, Flatbed, 10T, Hwy	Grader to Stockton	1	1	1.1	1	1.0	Byron PR to/from Stockton	32	64	Diesel	
BPR-5	Truck, Flatbed, 10T, Hwy	Roller to and from Stockton	2	2	1.1	2	1.0	Byron PR to/from Stockton	32	64	Diesel	
BPR-6	Truck & Bottom Dump' 21cy' 30T	Asphalt, Hot Mix Delivered from Vernalis	12	153	0.7	219	18	Byron PR to/from Vernalis	21	42	Diesel Tier 4	
BPR-6	Ready-Mix Concrete Truck	Concrete for Bus Parking Lot from Tracy	12	6.4	0.5	12	1	Byron PR to/from Tracy	16	32	Diesel Tier 4	
BPR-6	Truck, Water, 4-mail, Hwy	Water from Tracy	10	1	0.5	1	0.1	Byron PR to/from Tracy	16	32	Diesel	
BPR-6	Truck, Flatbed, 10T, Hwy	Paver and Two Rollers to and from Stockton	2	6	1.1	6	3.0	Byron PR to/from Stockton	32	64	Diesel	
BPR-7	Boom Truck, 12.5 Tn Boom	Materials from Stockton	3	3	1.1	3	1	Byron PR to/from Stockton	32	64	Diesel or Hybrid	
BPR-7	Truck, Flatbed, 10T, Hwy	Loader to Stockton	1	1	1.1	1	1.0	Byron PR to/from Stockton	32	64	Diesel	
Vehicle Use on Unpaved (Dirt Surface [no access roads at park and ride lots]) --- on the Construction Site												
BPR-1	CAT 730 30T, Articulated End Dump	Driven on construction site	13	209.82	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1049	Diesel Tier 4 or Hybrid Diesel	
BPR-2	Cat 10mpal w/Cat 770, 111HP	Driven on construction site	2	3.87	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		19	Diesel	

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip
BPR -1	Operator G4 Dozer & Push Cat	69.94	10		Stockton to/from Byron PR	32
BPR -1	Operator G2 Excavator 3.5 to 7.0 cu yd	69.94	10		Stockton to/from Byron PR	32
BPR -1	OPERATING ENGINEER FOREMAN	34.97	10		Stockton to/from Byron PR	32
BPR -1	Teamster G2 Hwy ED 6-8cy, Water<7m³	209.82	10		Stockton to/from Byron PR	32
BPR -1	Teamster G3 ED 8-24cy, Water>7m³	209.82	10		Stockton to/from Byron PR	32
TOTAL BPR-1						
BPR -2	Laborer G2 General	0.93	10		Stockton to/from Byron PR	32
BPR -2	Operator G5 Compactor w-blade	7.75	10		Stockton to/from Byron PR	32
BPR -2	Operator G4 Dozer & Push Cat	7.75	10		Stockton to/from Byron PR	32
BPR -2	OPERATING ENGINEER FOREMAN	7.75	10		Stockton to/from Byron PR	32
BPR -2	Operator G2 Finish Blade	3.87	10		Stockton to/from Byron PR	32
BPR -2	Teamster G2 Hwy ED 6-8cy, Water<7m³	3.87	10		Stockton to/from Byron PR	32
BPR -2	Teamster G3 ED 8-24cy, Water>7m³	3.87	10		Stockton to/from Byron PR	32
TOTAL BPR-2						
BPR -3	Laborer G1 Pipe layers	16.07	10		Stockton to/from Byron PR	32
BPR -3	Laborer Foreman	4.02	10		Stockton to/from Byron PR	32
BPR -3	Operator G3 BH-Loader>3/4cy	8.03	10		Stockton to/from Byron PR	32
BPR -3	Teamster G1 Hwy ED<6cy, Flatbed	6.03	10		Stockton to/from Byron PR	32
BPR -3	Teamster G2 Hwy ED 6-8cy, Water<7m³	2.01	10		Stockton to/from Byron PR	32
TOTAL BPR-3						
BPR -4	Laborer G1 Pipe layers	3.62	10		Stockton to/from Byron PR	32
BPR -4	Laborer G1 Power Tamper	1.81	10		Stockton to/from Byron PR	32
BPR -4	Operator G4 Loader <4.1cy	0.9	10		Stockton to/from Byron PR	32
BPR -4	Teamster G2 Hwy ED 6-8cy, Water<7m³	1.81	10		Stockton to/from Byron PR	32
TOTAL BPR-4						
BPR -5	Laborer G3 Flagman	63.04	10		Stockton to/from Byron PR	32
BPR -5	Operator G7 Roller, Compactor	31.52	10		Stockton to/from Byron PR	32
BPR -5	OPERATING ENGINEER FOREMAN	31.52	10		Stockton to/from Byron PR	32
BPR -5	Operator G4 Grade Check	31.52	10		Stockton to/from Byron PR	32
BPR -5	Operator G2 Finish Blade	31.52	10		Stockton to/from Byron PR	32
BPR -5	Operator G8 Generator	6.3	10		Stockton to/from Byron PR	32
BPR -5	Teamster G2 Hwy ED 6-8cy, Water<7m³	31.52	10		Stockton to/from Byron PR	32
TOTAL BPR-5						
BPR -6	Laborer G2 General	142.99	10		Stockton to/from Byron PR	32
BPR -6	Operator G5 Asphalt Roller	71.49	10		Stockton to/from Byron PR	32
BPR -6	Operator G3 BH-Loader>3/4cy	35.75	10		Stockton to/from Byron PR	32
BPR -6	OPERATING ENGINEER FOREMAN	35.75	10		Stockton to/from Byron PR	32
BPR -6	Operator G4 Grade Check	35.75	10		Stockton to/from Byron PR	32
BPR -6	Operator G5 Paver	35.75	10		Stockton to/from Byron PR	32
BPR -6	Teamster G2 Hwy ED 6-8cy, Water<7m³	17.87	10		Stockton to/from Byron PR	32
TOTAL BPR-6						
BPR -7	Iron Worker-Rigger	2.89	10		Stockton to/from Byron PR	32
BPR -7	Laborer G2 General	11.57	10		Stockton to/from Byron PR	32
BPR -7	Operator G4a Boom truck<15 ton	2.89	10		Stockton to/from Byron PR	32
BPR -7	Operator G3 BH-Loader>3/4cy	2.89	10		Stockton to/from Byron PR	32
BPR -7	OPERATING ENGINEER FOREMAN	2.89	10		Stockton to/from Byron PR	32
BPR -7	Teamster G3 Boom Truck	2.89	10		Stockton to/from Byron PR	32
TOTAL BPR-7						

Marine Inventory for Byron Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Byron Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

Helicopter Inventory for Byron Park and Ride

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Byron Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

[illegible]

Demolition Assumptions for Byron Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Bruns Complex Rds - Central & Eastern Access Road
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	BrCmplxRd-C&E Access -1	3/12/2027	3/15/2027	4	4	10
Embankment	BrCmplxRd-C&E Access -2	3/16/2027	3/16/2027	1	1	10
Culvert Pipe	BrCmplxRd-C&E Access -3	3/17/2027	3/17/2027	1	1	10
Bridge over Byron Highway	BrCmplxRd-C&E Access -4	3/17/2027	6/1/2027	54	5	10
Subdrain System	BrCmplxRd-C&E Access -5	3/18/2027	3/22/2027	5	5	10
Road Base	BrCmplxRd-C&E Access -6	3/23/2027	3/24/2027	2	2	10
Asphalt Paving	BrCmplxRd-C&E Access -7	6/2/2027	6/3/2027	2	2	10
KRail and Signs	BrCmplxRd-C&E Access -8	6/4/2027	6/4/2027	1	1	10
Intermediate Overlay	BrCmplxRd-C&E Access -9	5/13/2030	5/14/2030	2	2	10
Final Overlay	BrCmplxRd-C&E Access -10	6/29/2037	7/1/2037	3	3	10

Acres

5.3

Offroad Equipment (Fossil Fuel) Inventory for Bruns Complex Rds - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
BrCmplxRd-C&E Access -1	CAT D6LGPDozer w winch	Crawler Tractor	22.04	4	6	Diesel Tier 4 or Hybrid Dies	179	0.43		
BrCmplxRd-C&E Access -1	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	22.04	4	6	Diesel	384	0.38		
BrCmplxRd-C&E Access -2	CAT D6LGPDozer w winch	Crawler Tractor	14.69	1	15	Diesel Tier 4 or Hybrid Dies	179	0.43		
BrCmplxRd-C&E Access -2	Disk, Towed	Off-Highway Tractor	14.69	1	15	Diesel	140	0.44		
BrCmplxRd-C&E Access -2	CAT 14 M	Grader	7.35	1	7	Diesel	274	0.41		
BrCmplxRd-C&E Access -2	Water Pump, 4" Diesel	Pumps	1.76	1	2	Diesel	10	0.74		
BrCmplxRd-C&E Access -2	CAT 815, Roller	Roller	14.69	1	15	Diesel	170	0.38		
BrCmplxRd-C&E Access -3	Air Compressor 375 cfm	Air Compressor	2.56	1	3	Diesel Tier 4	122	0.48		
BrCmplxRd-C&E Access -3	CAT LOADER/HOE 416 E	Rubber Tired Loader	5.11	1	5	Diesel	78	0.36		
BrCmplxRd-C&E Access -3	Compactor, Plate, 22" w x 35"	Plate Compactor	2.56	1	3	Diesel	8.5	0.43		
BrCmplxRd-C&E Access -4	Grove RT Crane 55T, 247 hp	Crane	545.45	54	10	Diesel	247	0.29		
BrCmplxRd-C&E Access -4	Manitowoc 55S 150T, 250' Boom	Crane	545.45	54	10	Diesel	340	0.29		
BrCmplxRd-C&E Access -5	CAT LOADER/HOE 416 E	Rubber Tired Loader	11.63	5	2	Diesel	78	0.36		
BrCmplxRd-C&E Access -5	Compactor, Trench Roller, Vib 32"w	Roller	23.25	5	5	Diesel	20	0.38		
BrCmplxRd-C&E Access -6	CAT 14 M	Grader	36.74	2	18	Diesel	274	0.41		
BrCmplxRd-C&E Access -6	Water Pump, 4" Diesel	Pumps	36.74	2	18	Diesel	10	0.74		
BrCmplxRd-C&E Access -6	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	36.74	2	18	Diesel	156	0.38		
BrCmplxRd-C&E Access -7	CAT LOADER/HOE 416 E	Rubber Tired Loader	23.88	2	12	Diesel	78	0.36		
BrCmplxRd-C&E Access -7	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	23.88	2	12	Diesel or Hybrid	224	0.42		
BrCmplxRd-C&E Access -7	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	23.88	2	12	Diesel or Hybrid	137	0.38		
BrCmplxRd-C&E Access -7	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	23.88	2	12	Diesel or Hybrid	133	0.38		
BrCmplxRd-C&E Access -8	Boom Truck, 12.5 Tn Boom	Crane	7.29	1	7	Diesel or Hybrid	100	0.29		
BrCmplxRd-C&E Access -8	CAT LOADER/HOE 416 E	Rubber Tired Loader	7.29	1	7	Diesel	78	0.36		
BrCmplxRd-C&E Access -9	CAT LOADER/HOE 416 E	Rubber Tired Loader	15.08	2	8	Diesel	78	0.36		
BrCmplxRd-C&E Access -9	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	15.08	2	8	Diesel or Hybrid	224	0.42		
BrCmplxRd-C&E Access -9	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	15.08	2	8	Diesel or Hybrid	137	0.38		
BrCmplxRd-C&E Access -9	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	15.08	2	8	Diesel or Hybrid	133	0.38		
BrCmplxRd-C&E Access -10	CAT LOADER/HOE 416 E	Rubber Tired Loader	15.08	3	5	Diesel	78	0.36		
BrCmplxRd-C&E Access -10	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	15.08	3	5	Diesel or Hybrid	224	0.42		
BrCmplxRd-C&E Access -10	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	15.08	3	5	Diesel or Hybrid	137	0.38		
BrCmplxRd-C&E Access -10	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	15.08	3	5	Diesel or Hybrid	133	0.38		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Bruns Complex Rds - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
BrCmplxRd-C&E Access -2	Light Plant, 4 lite, 1000w, Tower/Mast	58.8hours	21		

Vehicle Inventory for Bruns Complex Rds : Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint or offsite)	# day	Vehicle Hours	Hours/Trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/way) (if known)	Fuel (gal/way) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site													
BrCmptHd-C&E Access-1	Pickup, 1/2T, 2wd	Materials from Stockton	4	11	1.1	10	3	Bruhns Road to/from Stockton	32	64	Hybrid Gasoline		
BrCmptHd-C&E Access-1	Truck, Water, 4 mgal, Hwy	Water from Tracy	4	6	0.5	12	3	Bruhns Road to/from Tracy	16	32	Diesel		
BrCmptHd-C&E Access-1	Truck, Flatbed, 10T, Hwy	Doser from Stockton	1	1	1.1	1	1.0	Bruhns Road to/from Stockton	32	64	Diesel		
BrCmptHd-C&E Access-1	Truck, Flatbed, 10T, Hwy	Excavator to and from Stockton	2	2	1.1	2	1.0	Bruhns Road to/from Stockton	32	64	Diesel		
BrCmptHd-C&E Access-1	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	4	66	1.1	62	15	Bruhns Road to/from Stockton	32	64	Diesel		
BrCmptHd-C&E Access-2	Pickup, 1/2T, 2wd	Materials from Stockton	1	15	1.1	14	14	Bruhns Road to/from Stockton	32	64	Hybrid Gasoline		
BrCmptHd-C&E Access-2	Cat 10mgal w/Cat 770, 52HP	Materials from Stockton	1	28	1.1	17	17	Bruhns Road to/from Stockton	32	64	Diesel		
BrCmptHd-C&E Access-2	Truck, Flatbed, 10T, Hwy	Door to Stockton	1	1	1.1	1	1.0	Bruhns Road to/from Stockton	32	64	Diesel		
BrCmptHd-C&E Access-2	Truck, Flatbed, 10T, Hwy	Grader to and from Stockton	2	2	1.1	2	1.0	Bruhns Road to/from Stockton	32	64	Diesel		
BrCmptHd-C&E Access-2	Truck, Flatbed, 10T, Hwy	Roller to and from Stockton	2	2	1.1	2	1.0	Bruhns Road to/from Stockton	32	64	Diesel		
BrCmptHd-C&E Access-2	Truck, Water, 4 mgal, Hwy	Water from Tracy	1	3	0.5	5	5	Bruhns Road to/from Tracy	16	32	Diesel		
BrCmptHd-C&E Access-2	Truck/ End Dump/ 16-20cy/ Hwy	Gravel from Vernalis	1	64	0.7	62	62	Bruhns Road to/from Vernalis	71	42	Diesel		
BrCmptHd-C&E Access-3	Truck, Flatbed, 10T, Hwy	Materials from Stockton	1	1	1.1	2	2	Bruhns Road to/from Stockton	32	64	Diesel		
BrCmptHd-C&E Access-3	Truck, Flatbed, 10T, Hwy	Loader from Stockton	1	1	1.1	1	1.0	Bruhns Road to/from Stockton	32	64	Diesel		
BrCmptHd-C&E Access-3	Truck, Flatbed, 10T, Hwy	Plate Compactor to and from Stockton	2	2	1.1	2	1.0	Bruhns Road to/from Stockton	32	64	Diesel		
BrCmptHd-C&E Access-3	Truck/ End Dump/ 16-20cy/ Hwy	Gravel from Vernalis	1	1	0.7	1	1	Bruhns Road to/from Vernalis	71	42	Diesel		
BrCmptHd-C&E Access-4	Pickup, 1/2T, 2wd	Materials from Stockton	54	545	1.1	111	9.5	Bruhns Road to/from Stockton	32	64	Hybrid Gasoline		
BrCmptHd-C&E Access-4	Truck, Flatbed, 4T, Hwy	Materials from Stockton	54	38	1.1	36	0.7	Bruhns Road to/from Stockton	32	64	Diesel		
BrCmptHd-C&E Access-4	Truck, Flatbed, 10T, Hwy	Two Cranes from and to Stockton	2	4	1.1	4	2.0	Bruhns Road to/from Stockton	32	64	Diesel		
BrCmptHd-C&E Access-4	Truck/ End Dump/ 16-20cy/ Hwy	Gravel from Vernalis	54	3	0.7	4	0	Bruhns Road to/from Vernalis	71	42	Diesel		
BrCmptHd-C&E Access-5	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	5	23	1.1	22	4	Bruhns Road to/from Stockton	32	64	Diesel		
BrCmptHd-C&E Access-5	Truck, Flatbed, 10T, Hwy	Roller to and from Stockton	2	2	1.1	2	1.0	Bruhns Road to/from Stockton	32	64	Diesel		
BrCmptHd-C&E Access-5	Truck, Flatbed, 10T, Hwy	Roller to and from Stockton	2	2	1.1	2	1.0	Bruhns Road to/from Stockton	32	64	Diesel		
BrCmptHd-C&E Access-6	Pickup, 1/4T, 4wd	Materials from Stockton	2	37	1.1	34	17	Bruhns Road to/from Stockton	32	64	Hybrid Gasoline		
BrCmptHd-C&E Access-6	Truck/ End Dump/ 16-20cy/ Hwy	Base Rock from Vernalis	2	211	0.7	361	151	Bruhns Road to/from Vernalis	71	42	Diesel		
BrCmptHd-C&E Access-6	Truck, Water, 4 mgal, Hwy	Water from Tracy	2	6	0.5	11	6	Bruhns Road to/from Tracy	16	32	Diesel		
BrCmptHd-C&E Access-7	Truck, Flatbed, 10T, Hwy	Paver and two Rollers to and from Stockton	2	6	1.1	6	3.0	Bruhns Road to/from Stockton	32	64	Diesel		
BrCmptHd-C&E Access-7	Truck, Water, 4 mgal, Hwy	Water from Tracy	2	6	0.5	12	6	Bruhns Road to/from Tracy	16	32	Diesel		
BrCmptHd-C&E Access-7	Truck & Bottom Dump/ 21cy/ 30T	Asphalt from Vernalis	2	84	0.7	120	40	Bruhns Road to/from Vernalis	71	42	Diesel Tier 4		
BrCmptHd-C&E Access-8	Truck, Flatbed, 10T, Hwy	Loader to Stockton	1	1	1.1	1	1.0	Bruhns Road to/from Stockton	32	64	Diesel		
BrCmptHd-C&E Access-8	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	2	1.1	2	1.0	Bruhns Road to/from Stockton	32	64	Diesel		
BrCmptHd-C&E Access-9	Truck, Flatbed, 10T, Hwy	Paver and two Rollers to and from Stockton	2	6	1.1	6	3.0	Bruhns Road to/from Stockton	32	64	Diesel		
BrCmptHd-C&E Access-9	Truck & Bottom Dump/ 21cy/ 30T	Asphalt from Vernalis	2	56	0.7	80	40	Bruhns Road to/from Vernalis	71	42	Diesel Tier 4		
BrCmptHd-C&E Access-10	Truck, Flatbed, 10T, Hwy	Paver and two Rollers to and from Stockton	2	6	1.1	6	3	Bruhns Road to/from Stockton	32	64	Diesel		
BrCmptHd-C&E Access-10	Truck & Bottom Dump/ 21cy/ 30T	Asphalt from Vernalis	3	56	0.7	80	27	Bruhns Road to/from Vernalis	71	42	Diesel Tier 4		

Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site

Employees Required to Bruns Complex Rds - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip
BrCmplxRd-C&E Access -1	Operator G4 Dozer & Push Cat	22.04	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -1	Operator G2 Excavator 3.5 to 7.0	22.04	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -1	OPERATING ENGINEER FOREMAN	11.02	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -1	Teamster G2 Hwy ED 6-8cy, Wate	66.12	10		Stockton to/from Bruhns Road	32
TOTAL BrCmplxRd-C&E Access-1						
BrCmplxRd-C&E Access -2	Laborer G2 General	1.76	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -2	Operator G5 Compactor w-blade	14.69	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -2	Operator G4 Dozer & Push Cat	14.69	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -2	OPERATING ENGINEER FOREMAN	14.69	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -2	Operator G2 Finish Blade	7.35	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -2	Teamster G2 Hwy ED 6-8cy, Water<7	7.35	10		Stockton to/from Bruhns Road	32
TOTAL BrCmplxRd-C&E Access-2						
BrCmplxRd-C&E Access -3	Laborer G1 Pipe layers	10.22	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -3	Laborer Foreman	2.56	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -3	Operator G3 BH-Loader>3/4cy	5.11	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -3	Teamster G1 Hwy ED<6cy, Flatbed	3.83	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -3	Teamster G2 Hwy ED 6-8cy, Water<7	1.28	10		Stockton to/from Bruhns Road	32
TOTAL BrCmplxRd-C&E Access-3						
BrCmplxRd-C&E Access -4	Iron Worker Journeyman Rebar/Stru	2181.82	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -4	Laborer G3 Bridge labor	2181.82	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -4	Operator G1a Cranes>100 t	545.45	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -4	Operator G2a Cranes 45 to 100 t	545.45	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -4	OPERATING ENGINEER FOREMAN	545.45	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -4	Pile Driver Wharf and Dock	2181.82	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -4	Teamster G1 Hwy ED<6cy, Flatbed	545.45	10		Stockton to/from Bruhns Road	32
TOTAL BrCmplxRd-C&E Access-4						
BrCmplxRd-C&E Access -5	Laborer G1 Pipe layers	46.5	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -5	Laborer G1 Power Tamper	23.25	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -5	Operator G4 Loader <4.1cy	11.63	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -5	Teamster G2 Hwy ED 6-8cy, Water<7	23.25	10		Stockton to/from Bruhns Road	32
TOTAL BrCmplxRd-C&E Access-5						
BrCmplxRd-C&E Access -6	Laborer G3 Flagman	73.49	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -6	Operator G7 Roller, Compactor	36.74	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -6	OPERATING ENGINEER FOREMAN	36.74	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -6	Operator G4 Grade Check	36.74	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -6	Operator G2 Finish Blade	36.74	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -6	Operator G8 Generator	7.35	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -6	Teamster G2 Hwy ED 6-8cy, Water<7	36.74	10		Stockton to/from Bruhns Road	32
TOTAL BrCmplxRd-C&E Access-6						
BrCmplxRd-C&E Access -7	Laborer G2 General	95.51	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -7	Operator G5 Asphalt Roller	47.76	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -7	Operator G3 BH-Loader>3/4cy	23.88	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -7	OPERATING ENGINEER FOREMAN	23.88	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -7	Operator G4 Grade Check	23.88	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -7	Operator G5 Paver	23.88	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -7	Teamster G2 Hwy ED 6-8cy, Water<7	11.94	10		Stockton to/from Bruhns Road	32
TOTAL BrCmplxRd-C&E Access-7						
BrCmplxRd-C&E Access -8	Iron Worker-Rigger	7.29	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -8	Laborer G2 General	29.14	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -8	Operator G4a Boom truck<15 ton	7.29	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -8	Operator G3 BH-Loader>3/4cy	7.29	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -8	OPERATING ENGINEER FOREMAN	7.29	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -8	Teamster G3 Boom Truck	7.29	10		Stockton to/from Bruhns Road	32
TOTAL BrCmplxRd-C&E Access-8						
BrCmplxRd-C&E Access -9	Laborer G2 General	60.34	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -9	Operator G5 Asphalt Roller	30.17	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -9	Operator G3 BH-Loader>3/4cy	15.08	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -9	OPERATING ENGINEER FOREMAN	15.08	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -9	Operator G4 Grade Check	15.08	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -9	Operator G5 Paver	15.08	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -9	Teamster G2 Hwy ED 6-8cy, Water<7	7.54	10		Stockton to/from Bruhns Road	32
TOTAL BrCmplxRd-C&E Access-9						
BrCmplxRd-C&E Access -10	Laborer G2 General	60.34	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -10	Operator G5 Asphalt Roller	30.17	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -10	Operator G3 BH-Loader>3/4cy	15.08	10		Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -10	OPERATING ENGINEER FOREMAN	15.08	10		Stockton to/from Bruhns Road	32

BrCmplxRd-C&E Access -10	Operator G4 Grade Check	15.08	10	Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -10	Operator G5 Paver	15.08	10	Stockton to/from Bruhns Road	32
BrCmplxRd-C&E Access -10	Teamster G2 Hwy ED 6-8cy, Water<7	7.54	10	Stockton to/from Bruhns Road	32
TOTAL BrCmplxRd-C&E Access-10					

Marine Inventory for Bruns Complex Rds - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Bruns Complex Rds - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

Helicopter Inventory for Bruns Complex Rds - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

[illegible]

**Demolition Assumptions for Bruns Complex Rds - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Discovery Bay Rd Extension - Central & Eastern Access Road
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	DBExt-C&E Access -1	11/10/2026	11/13/2026	4	4	10
Embankment	DBExt-C&E Access -2	11/16/2026	11/20/2026	5	5	10
Culvert Pipe	DBExt-C&E Access -3	11/23/2026	11/24/2026	2	2	10
Subdrain System	DBExt-C&E Access -4	11/25/2026	12/7/2026	10	5	10
Road Base	DBExt-C&E Access -5	12/8/2026	12/22/2026	11	5	10
Asphalt Paving	DBExt-C&E Access -6	12/23/2026	12/30/2026	6	5	10
KRail and Signs	DBExt-C&E Access -7	12/31/2026	12/31/2026	1	1	10
Intermediate Overlay	DBExt-C&E Access -8	5/7/2030	5/8/2030	2	2	10
Final Overlay	DBExt-C&E Access -9	6/8/2037	6/10/2037	3	3	10
Acres		4.6				

Offroad Equipment (Fossil Fuel) Inventory for Discovery Bay Rd Extension - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
DBExt-C&E Access -1	CAT D6LGPDozer w winch	Crawler Tractor	35.16	4	9	Diesel Tier 4 or Hybrid Dies	179	0.43		
DBExt-C&E Access -1	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	35.16	4	9	Diesel	384	0.38		
DBExt-C&E Access -2	CAT D6LGPDozer w winch	Crawler Tractor	30.61	5	6	Diesel Tier 4 or Hybrid Dies	179	0.43		
DBExt-C&E Access -2	Disk, Towed	Off-Highway Tractor	30.61	5	6	Diesel	140	0.44		
DBExt-C&E Access -2	CAT 14 M	Grader	15.3	5	3	Diesel	274	0.41		
DBExt-C&E Access -2	Water Pump, 4" Diesel	Pumps	3.67	5	1	Diesel	10	0.74		
DBExt-C&E Access -2	CAT 815, Roller	Roller	30.61	5	6	Diesel	170	0.38		
DBExt-C&E Access -3	Air Compressor 375 cfm	Air Compressor	4.83	2	2	Diesel Tier 4	122	0.48		
DBExt-C&E Access -3	CAT LOADER/HOE 416 E	Rubber Tired Loader	9.67	2	5	Diesel	78	0.36		
DBExt-C&E Access -3	Compactor, Plate, 22" w x 35"	Plate Compactor	4.83	2	2	Diesel	8.5	0.43		
DBExt-C&E Access -4	CAT LOADER/HOE 416 E	Rubber Tired Loader	14.41	10	1	Diesel	78	0.36		
DBExt-C&E Access -4	Compactor, Trench Roller, Vib 32"w	Roller	28.83	10	3	Diesel	20	0.38		
DBExt-C&E Access -5	CAT 14 M	Grader	60.36	11	5	Diesel	274	0.41		
DBExt-C&E Access -5	Water Pump, 4" Diesel	Pumps	60.36	11	5	Diesel	10	0.74		
DBExt-C&E Access -5	CAT CS-64, Roller, 15.7 tn, 156HP DBExt-C&E Access -6	Roller	60.36	11	5	Diesel	156	0.38		
CAT LOADER/HOE 416 E	Rubber Tired Loader		44.16	6	7	Diesel	78	0.36		
DBExt-C&E Access -6	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	44.16	6	7	Diesel or Hybrid	224	0.42		
DBExt-C&E Access -6	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	44.16	6	7	Diesel or Hybrid	137	0.38		
DBExt-C&E Access -6	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	44.16	6	7	Diesel or Hybrid	133	0.38		
DBExt-C&E Access -7	Boom Truck, 12.5 Tn Boom	Crane	15	1	15	Diesel or Hybrid	100	0.29		
DBExt-C&E Access -7	CAT LOADER/HOE 416 E	Rubber Tired Loader	15	1	15	Diesel	78	0.36		
DBExt-C&E Access -8	CAT LOADER/HOE 416 E	Rubber Tired Loader	14.43	2	7	Diesel	78	0.36		
DBExt-C&E Access -8	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	14.43	2	7	Diesel or Hybrid	224	0.42		
DBExt-C&E Access -8	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	14.43	2	7	Diesel or Hybrid	137	0.38		
DBExt-C&E Access -8	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	14.43	2	7	Diesel or Hybrid	133	0.38		
DBExt-C&E Access -9	CAT LOADER/HOE 416 E	Rubber Tired Loader	14.43	3	5	Diesel	78	0.36		
DBExt-C&E Access -9	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	14.43	3	5	Diesel or Hybrid	224	0.42		
DBExt-C&E Access -9	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	14.43	3	5	Diesel or Hybrid	137	0.38		
DBExt-C&E Access -9	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	14.43	3	5	Diesel or Hybrid	133	0.38		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Discovery Bay Rd Extension - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
DBExt-C&E Access -2	Light Plant, 4 lite, 1000w, Tower/Mast	122.42 hours	5		

Vehicle Inventory for Discovery Bay Rd Extension - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint w/o offsite)	# day	Vehicle Hours	Hours/Trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/mile) (if known)	Fuel (gal/day) (if known)
Vehicle Use on Paved Roads — and Not on Construction Site													
DBEst-C&E Access -1	Pickup, 1/2T, 2wd	Materials from Stockton	4	18	1.1	16	4	Southern Forebay to/from Stockton	32	64	Hybrid Gasoline		
DBEst-C&E Access -1	Truck, Water, 4-wheal, Hwy	Water from Tracy	4	9	0.5	16	4	Southern Forebay to/from Tracy	16	32	Diesel		
DBEst-C&E Access -1	Truck, Flatbed, 10T, Hwy	Gravel from Stockton	1	1	1.1	1	1.0	Southern Forebay to/from Stockton	32	64	Diesel		
DBEst-C&E Access -1	Truck, Flatbed, 10T, Hwy	Excavator to and from Stockton	2	2	1.1	2	1.0	Southern Forebay to/from Stockton	32	64	Diesel		
DBEst-C&E Access -1	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	4	40	1.1	37	9	Southern Forebay to/from Stockton	32	64	Diesel		
DBEst-C&E Access -1	Truck, Flatbed, 10T, Hwy	Materials from Stockton	4	7	1.1	7	1.8	Southern Forebay to/from Stockton	32	64	Diesel		
DBEst-C&E Access -2	Pickup, 1/2T, 2wd	Materials from Stockton	5	31	1.1	29	6	Southern Forebay to/from Stockton	32	64	Hybrid Gasoline		
DBEst-C&E Access -2	Cat 50mgpl w/Cat 770, 511HP	Materials from Stockton	5	2	1.1	2	0	Southern Forebay to/from Stockton	32	64	Diesel		
DBEst-C&E Access -2	Truck, Flatbed, 10T, Hwy	Gravel from Stockton	1	1	1.1	1	1.0	Southern Forebay to/from Stockton	32	64	Diesel		
DBEst-C&E Access -2	Truck, Flatbed, 10T, Hwy	Gravel to and from Stockton	2	2	1.1	2	1.0	Southern Forebay to/from Stockton	32	64	Diesel		
DBEst-C&E Access -2	Truck, Flatbed, 10T, Hwy	Roller to and from Stockton	2	1	1.1	1	0.5	Southern Forebay to/from Stockton	32	64	Diesel		
DBEst-C&E Access -2	Truck, Water, 4-wheal, Hwy	Water from Tracy	5	20	0.5	38	8	Southern Forebay to/from Tracy	16	32	Diesel		
DBEst-C&E Access -2	Truck' End Dump' 16-20cy' Hwy	Gravel from Vernalis	11	179	0.7	256	23	Southern Forebay to/from Vernalis	21	42	Diesel		
DBEst-C&E Access -3	Truck, Flatbed, 10T, Hwy	Materials from Stockton	2	5	1.1	5	2	Southern Forebay to/from Stockton	32	64	Diesel		
DBEst-C&E Access -3	Truck, Flatbed, 10T, Hwy	Loader from Stockton	1	1	1.1	1	1.0	Southern Forebay to/from Stockton	32	64	Diesel		
DBEst-C&E Access -3	Truck, Flatbed, 10T, Hwy	Plate Compactor to and from Stockton	2	2	1.1	2	1.0	Southern Forebay to/from Stockton	32	64	Diesel		
DBEst-C&E Access -3	Truck' End Dump' 16-20cy' Hwy	Gravel from Vernalis	2	1	0.7	1	1	Southern Forebay to/from Vernalis	21	42	Diesel		
DBEst-C&E Access -4	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	10	29	1.1	27	3	Southern Forebay to/from Stockton	32	64	Diesel		
DBEst-C&E Access -4	Truck, Flatbed, 10T, Hwy	Roller to and from Stockton	2	2	1.1	2	1.0	Southern Forebay to/from Stockton	32	64	Diesel		
DBEst-C&E Access -4	Truck, Flatbed, 10T, Hwy	Roller to and from Stockton	2	2	1.1	2	1.0	Southern Forebay to/from Stockton	32	64	Diesel		
DBEst-C&E Access -4	Truck' End Dump' 16-20cy' Hwy	Gravel from Vernalis	2	3	0.7	4	2	Southern Forebay to/from Vernalis	21	42	Diesel		
DBEst-C&E Access -5	Pickup, 1/4T, 4wd	Materials from Stockton	11	60	1.1	57	5	Southern Forebay to/from Stockton	32	64	Hybrid Gasoline		
DBEst-C&E Access -5	Truck' End Dump' 16-20cy' Hwy	Base Rock from Vernalis	11	423	0.7	604	55	Southern Forebay to/from Vernalis	21	42	Diesel		
DBEst-C&E Access -5	Truck, Water, 4-wheal, Hwy	Water from Tracy	11	9	0.5	17	2	Southern Forebay to/from Tracy	16	32	Diesel		
DBEst-C&E Access -6	Truck, Flatbed, 10T, Hwy	Power and two Rollers to and from Stockton	2	6	1.1	6	3.0	Southern Forebay to/from Stockton	32	64	Diesel		
DBEst-C&E Access -6	Truck, Water, 4-wheal, Hwy	Water from Tracy	6	11	0.5	20	3	Southern Forebay to/from Tracy	16	32	Diesel		
DBEst-C&E Access -6	Truck & Bottom Dump' 21cy' 30T	Asphalt from Vernalis	6	373	0.7	533	89	Southern Forebay to/from Vernalis	21	42	Diesel Tier 4		
DBEst-C&E Access -7	Truck, Flatbed, 10T, Hwy	Loader to Stockton	1	1	1.1	1	1.0	Southern Forebay to/from Stockton	32	64	Diesel		
DBEst-C&E Access -7	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	3	1.1	3	1.0	Southern Forebay to/from Stockton	32	64	Diesel		
DBEst-C&E Access -8	Truck, Flatbed, 10T, Hwy	Power and two Rollers to and from Stockton	2	6	1.1	6	3.0	Southern Forebay to/from Stockton	32	64	Diesel		
DBEst-C&E Access -8	Truck & Bottom Dump' 21cy' 30T	Asphalt from Vernalis	2	54	0.7	77	39	Southern Forebay to/from Vernalis	21	42	Diesel Tier 4		
DBEst-C&E Access -9	Truck, Flatbed, 10T, Hwy	Power and two Rollers to and from Stockton	2	6	1.1	6	3	Southern Forebay to/from Stockton	32	64	Diesel		
DBEst-C&E Access -9	Truck & Bottom Dump' 21cy' 30T	Asphalt from Vernalis	2	54	0.7	77	39	Southern Forebay to/from Vernalis	21	42	Diesel Tier 4		
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) — on the Construction Site													
DBEst-C&E Access -1	CAT 730 30T, Articulated End Dump	Dumpers	4	105.48	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		527	Diesel Tier 4 or Hybrid Diesel		

Employees Required to Discovery Bay Rd Extension - Central & Eastern Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip
DBExt-C&E Access -1	Operator G4 Dozer & Push Cat	35.16	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -1	Operator G2 Excavator 3.5 to 7.0	35.16	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -1	OPERATING ENGINEER FOREMAN	17.58	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -1	Teamster G2 Hwy ED 6-8cy, Wate	70.32	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -1	Teamster G3 ED 8-24cy, Water>7	105.48	10		Stockton to/from Southern Forebay	32
TOTAL DBExt-C&E Access-1						
DBExt-C&E Access -2	Laborer G2 General	3.67	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -2	Operator G5 Compactor w-blade	30.61	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -2	Operator G4 Dozer & Push Cat	30.61	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -2	OPERATING ENGINEER FOREMAN	30.61	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -2	Operator G2 Finish Blade	15.3	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -2	Teamster G2 Hwy ED 6-8cy, Water<7	15.3	10		Stockton to/from Southern Forebay	32
TOTAL DBExt-C&E Access-2						
DBExt-C&E Access -3	Laborer G1 Pipe layers	19.33	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -3	Laborer Foreman	4.83	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -3	Operator G3 BH-Loader>3/4cy	9.67	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -3	Teamster G1 Hwy ED<6cy, Flatbed	7.25	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -3	Teamster G2 Hwy ED 6-8cy, Water<7	2.42	10		Stockton to/from Southern Forebay	32
TOTAL DBExt-C&E Access-3						
DBExt-C&E Access -4	Laborer G1 Pipe layers	57.65	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -4	Laborer G1 Power Tamper	28.83	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -4	Operator G4 Loader <4.1cy	14.41	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -4	Teamster G2 Hwy ED 6-8cy, Water<7	28.83	10		Stockton to/from Southern Forebay	32
TOTAL DBExt-C&E Access-4						
DBExt-C&E Access -5	Laborer G3 Flagman	120.73	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -5	Operator G7 Roller, Compactor	60.36	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -5	OPERATING ENGINEER FOREMAN	60.36	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -5	Operator G4 Grade Check	60.36	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -5	Operator G2 Finish Blade	60.36	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -5	Operator G8 Generator	12.07	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -5	Teamster G2 Hwy ED 6-8cy, Water<7	60.36	10		Stockton to/from Southern Forebay	32
TOTAL DBExt-C&E Access-5						
DBExt-C&E Access -6	Laborer G2 General	176.63	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -6	Operator G5 Asphalt Roller	88.32	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -6	Operator G3 BH-Loader>3/4cy	44.16	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -6	OPERATING ENGINEER FOREMAN	44.16	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -6	Operator G4 Grade Check	44.16	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -6	Operator G5 Paver	44.16	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -6	Teamster G2 Hwy ED 6-8cy, Water<7	22.08	10		Stockton to/from Southern Forebay	32
TOTAL DBExt-C&E Access-6						
DBExt-C&E Access -7	Iron Worker-Rigger	15	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -7	Laborer G2 General	60	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -7	Operator G4a Boom truck<15 ton	15	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -7	Operator G3 BH-Loader>3/4cy	15	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -7	OPERATING ENGINEER FOREMAN	15	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -7	Teamster G3 Boom Truck	15	10		Stockton to/from Southern Forebay	32
TOTAL DBExt-C&E Access-7						
DBExt-C&E Access -8	Laborer G2 General	57.73	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -8	Operator G5 Asphalt Roller	28.86	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -8	Operator G3 BH-Loader>3/4cy	14.43	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -8	OPERATING ENGINEER FOREMAN	14.43	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -8	Operator G4 Grade Check	14.43	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -8	Operator G5 Paver	14.43	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -8	Teamster G2 Hwy ED 6-8cy, Water<7	7.22	10		Stockton to/from Southern Forebay	32
TOTAL DBExt-C&E Access-8						
DBExt-C&E Access -9	Laborer G2 General	57.73	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -9	Operator G5 Asphalt Roller	28.86	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -9	Operator G3 BH-Loader>3/4cy	14.43	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -9	OPERATING ENGINEER FOREMAN	14.43	10		Stockton to/from Southern Forebay	32
DBExt-C&E Access -9	Operator G4 Grade Check	14.43	10		Stockton to/from Southern Forebay	32

Marine Inventory for Discovery Bay Rd Extension - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Discovery Bay Rd Extension - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Discovery Bay Rd Extension - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

[illegible]

**Demolition Assumptions for Discovery Bay Rd Extension - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Western Farm Rd - Central & Eastern Access Road
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	WFRd-C&E Access -1	10/9/2026	10/14/2026	5	5	10
Embankment	WFRd-C&E Access -2	10/15/2026	10/19/2026	5	5	10
Culvert Pipe	WFRd-C&E Access -3	10/20/2026	10/20/2026	1	1	10
Subdrain System	WFRd-C&E Access -4	10/21/2026	10/27/2026	5	5	10
Road Base	WFRd-C&E Access -5	10/28/2026	11/9/2026	11	5	10
Asphalt Paving	WFRd-C&E Access -6	11/10/2026	11/17/2026	6	5	10
KRail and Signs	WFRd-C&E Access -7	11/18/2026	11/18/2026	1	1	10
Intermediate Overlay	WFRd-C&E Access -8	5/20/2030	5/21/2030	2	2	10
Final Overlay	WFRd-C&E Access -9	6/10/2037	6/12/2037	3	3	10

Acres **2**

**Offroad Equipment (Fossil Fuel) Inventory for Western Farm Rd - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B**

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
WFRd-C&E Access -1	CAT D6LGPDozer w winch	Crawler Tractor	81.48	5	16	Diesel Tier 4 or Hybrid Dies	179	0.43		
WFRd-C&E Access -1	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	81.48	5	16	Diesel	384	0.38		
WFRd-C&E Access -2	CAT D6LGPDozer w winch	Crawler Tractor	36.66	5	7	Diesel Tier 4 or Hybrid Dies	179	0.43		
WFRd-C&E Access -2	Disk, Towed	Off-Highway Tractor	36.66	5	7	Diesel	140	0.44		
WFRd-C&E Access -2	CAT 14 M	Grader	18.33	5	4	Diesel	274	0.41		
WFRd-C&E Access -2	Water Pump, 4" Diesel	Pumps	4.4	5	1	Diesel	10	0.74		
WFRd-C&E Access -2	CAT 815, Roller	Roller	36.66	5	7	Diesel	170	0.38		
WFRd-C&E Access -3	Air Compressor 375 cfm	Air Compressor	5.56	1	6	Diesel Tier 4	122	0.48		
WFRd-C&E Access -3	CAT LOADER/HOE 416 E	Rubber Tired Loader	11.11	1	11	Diesel	78	0.36		
WFRd-C&E Access -3	Compactor, Plate, 22" w x 35"	Plate Compactor	5.56	1	6	Diesel	8.5	0.43		
WFRd-C&E Access -4	CAT LOADER/HOE 416 E	Rubber Tired Loader	10.31	5	2	Diesel	78	0.36		
WFRd-C&E Access -4	Compactor, Trench Roller, Vib 32"w	Roller	20.63	5	4	Diesel	20	0.38		
WFRd-C&E Access -5	CAT 14 M	Grader	66.66	11	6	Diesel	274	0.41		
WFRd-C&E Access -5	Water Pump, 4" Diesel	Pumps	66.66	11	6	Diesel	10	0.74		
WFRd-C&E Access -5	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	66.66	11	6	Diesel	156	0.38		
WFRd-C&E Access -6	CAT LOADER/HOE 416 E	Rubber Tired Loader	50.18	6	8	Diesel	78	0.36		
WFRd-C&E Access -6	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	50.18	6	8	Diesel or Hybrid	224	0.42		
WFRd-C&E Access -6	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	50.18	6	8	Diesel or Hybrid	137	0.38		
WFRd-C&E Access -6	Asphalt Rolller, 17.6 Tn Pneumatic,133hp	Roller	50.18	6	8	Diesel or Hybrid	133	0.38		
WFRd-C&E Access -7	Boom Truck, 12.5 Tn Boom	Crane	5.64	1	6	Diesel or Hybrid	100	0.29		
WFRd-C&E Access -7	CAT LOADER/HOE 416 E	Rubber Tired Loader	5.64	1	6	Diesel	78	0.36		
WFRd-C&E Access -8	CAT LOADER/HOE 416 E	Rubber Tired Loader	16.73	2	8	Diesel	78	0.36		
WFRd-C&E Access -8	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	16.73	2	8	Diesel or Hybrid	224	0.42		
WFRd-C&E Access -8	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	16.73	2	8	Diesel or Hybrid	137	0.38		
WFRd-C&E Access -8	Asphalt Rolller, 17.6 Tn Pneumatic,133hp	Roller	16.73	2	8	Diesel or Hybrid	133	0.38		
WFRd-C&E Access -9	CAT LOADER/HOE 416 E	Rubber Tired Loader	16.73	3	6	Diesel	78	0.36		
WFRd-C&E Access -9	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	16.73	3	6	Diesel or Hybrid	224	0.42		
WFRd-C&E Access -9	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	16.73	3	6	Diesel or Hybrid	137	0.38		
WFRd-C&E Access -9	Asphalt Rolller, 17.6 Tn Pneumatic,133hp	Roller	16.73	3	6	Diesel or Hybrid	133	0.38		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Western Farm Rd - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
WFRd-C&E Access -2	Light Plant, 4 lite, 1000w, Tower/Mast	146.7 hours	5		

Vehicle Inventory for Western Farm Rd - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint w/o offsite)	# day	Vehicle Hours	Hours/Trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/100ft ³ if known)	Fuel (gal/Day) (if known)
Vehicle Use on Paved Roads — and Not on Construction Site													
WFRd-C&E Access -1	Pickup, 1/2T, 2wd	Materials from Stockton	5	41	1.1	38	8	Southern Forebay to Stockton	32	64	Hybrid Gasoline		
WFRd-C&E Access -1	Truck, Water, 4 mgal, Hwy	Water from Tracy	5	3	0.5	5	1	Southern Forebay to Tracy	16	32	Diesel		
WFRd-C&E Access -1	Truck, Flatbed, 10T, Hwy	Doser from Stockton	1	1	1.1	1	1.0	Southern Forebay to Stockton	32	64	Diesel		
WFRd-C&E Access -1	Truck, Flatbed, 10T, Hwy	Excavator to and from Stockton	2	2	1.1	2	1.0	Southern Forebay to Stockton	32	64	Diesel		
WFRd-C&E Access -1	Truck, Flatbed, 10T, Hwy	Materials from Stockton	5	26	1.1	24	4.8	Southern Forebay to Stockton	32	64	Diesel		
WFRd-C&E Access -1	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	5	13	1.1	12	2	Southern Forebay to Stockton	32	64	Diesel		
WFRd-C&E Access -2	Pickup, 1/2T, 2wd	Materials from Stockton	5	37	1.1	34	7	Southern Forebay to Stockton	32	64	Hybrid Gasoline		
WFRd-C&E Access -2	Cat 50mgpl w/Cat 770, 511HP	Materials from Stockton	5	18	1.1	17	3	Southern Forebay to Stockton	32	64	Diesel		
WFRd-C&E Access -2	Truck, Flatbed, 10T, Hwy	Doser to Stockton	1	1	1.1	1	1.0	Southern Forebay to Stockton	32	64	Diesel		
WFRd-C&E Access -2	Truck, Flatbed, 10T, Hwy	Grader to and from Stockton	2	2	1.1	2	1.0	Southern Forebay to Stockton	32	64	Diesel		
WFRd-C&E Access -2	Truck, Flatbed, 10T, Hwy	Roller to and from Stockton	2	2	1.1	2	1.0	Southern Forebay to Stockton	32	64	Diesel		
WFRd-C&E Access -2	Truck, Water, 4 mgal, Hwy	Water from Tracy	5	13	0.5	14	5	Southern Forebay to Tracy	16	32	Diesel		
WFRd-C&E Access -3	Truck, Flatbed, 10T, Hwy	Materials from Stockton	1	6	1.1	5	5	Southern Forebay to Stockton	32	64	Diesel		
WFRd-C&E Access -3	Truck, Flatbed, 10T, Hwy	Loader from Stockton	1	1	1.1	1	1.0	Southern Forebay to Stockton	32	64	Diesel		
WFRd-C&E Access -3	Truck, Flatbed, 10T, Hwy	Plate Compactor to and from Stockton	2	2	1.1	2	1.0	Southern Forebay to Stockton	32	64	Diesel		
WFRd-C&E Access -3	Truck, End Dump, 16-20cy, Hwy	Gravel from Vernalis	1	1	0.7	1	1	Southern Forebay to Vernalis	21	42	Diesel		
WFRd-C&E Access -4	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	5	21	1.1	19	4	Southern Forebay to Stockton	32	64	Diesel		
WFRd-C&E Access -4	Truck, Flatbed, 10T, Hwy	Roller to and from Stockton	2	2	1.1	2	1.0	Southern Forebay to Stockton	32	64	Diesel		
WFRd-C&E Access -4	Truck, End Dump, 16-20cy, Hwy	Gravel from Vernalis	5	2	0.7	3	1	Southern Forebay to Vernalis	21	42	Diesel		
WFRd-C&E Access -5	Truck, Flatbed, 10T, Hwy	Roller to and from Stockton	2	2	1.1	2	1.0	Southern Forebay to Stockton	32	64	Diesel		
WFRd-C&E Access -5	Pickup, 3/4T, 4wd	Materials from Stockton	11	67	1.1	62	6	Southern Forebay to Stockton	32	64	Hybrid Gasoline		
WFRd-C&E Access -5	Truck, End Dump, 16-20cy, Hwy	Base Rock from Vernalis	11	467	0.7	667	61	Southern Forebay to Vernalis	21	42	Diesel		
WFRd-C&E Access -5	Truck, Water, 4 mgal, Hwy	Water from Tracy	11	8	0.5	15	1	Southern Forebay to Tracy	16	32	Diesel		
WFRd-C&E Access -6	Truck, Flatbed, 10T, Hwy	Paver and two Rollers to and from Stockton	2	6	1.1	6	3.0	Southern Forebay to Stockton	32	64	Diesel		
WFRd-C&E Access -6	Truck, Water, 4 mgal, Hwy	Water from Tracy	6	5	0.5	9	2	Southern Forebay to Tracy	16	32	Diesel		
WFRd-C&E Access -6	Truck & Bottom Dump, 21cy, 30T	Asphalt from Vernalis	6	186	0.7	265	44	Southern Forebay to Vernalis	21	42	Diesel Tier 4		
WFRd-C&E Access -7	Truck, Flatbed, 10T, Hwy	Loader to Stockton	1	1	1.1	1	1.0	Southern Forebay to Stockton	32	64	Diesel		
WFRd-C&E Access -7	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	2	1.1	2	1.0	Southern Forebay to Stockton	32	64	Diesel		
WFRd-C&E Access -8	Truck, Flatbed, 10T, Hwy	Paver and two Rollers to and from Stockton	2	6	1.1	6	3.0	Southern Forebay to Stockton	32	64	Diesel		
WFRd-C&E Access -8	Truck & Bottom Dump, 21cy, 30T	Asphalt from Vernalis	2	62	0.7	89	40	Southern Forebay to Vernalis	21	42	Diesel Tier 4		
WFRd-C&E Access -9	Truck, Flatbed, 10T, Hwy	Paver and two Rollers to and from Stockton	2	6	1.1	6	3	Southern Forebay to Stockton	32	64	Diesel		
WFRd-C&E Access -9	Truck & Bottom Dump, 21cy, 30T	Asphalt from Vernalis	3	62	0.7	89	36	Southern Forebay to Vernalis	21	42	Diesel Tier 4		
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) — on the Construction Site													
WFRd-C&E Access -1	Cat 730 30T, Articulated End Dump	Dumpers	5	244.45	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		1222	Diesel Tier 4 or Hybrid Diesel		

**Employees Required to Western Farm Rd - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B**

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip
WFRd-C&E Access -1	Operator G4 Dozer & Push Cat	81.48	10		Stockton to Southern Forebay	32
WFRd-C&E Access -1	Operator G2 Excavator 3.5 to 7.0	81.48	10		Stockton to Southern Forebay	32
WFRd-C&E Access -1	OPERATING ENGINEER FOREMAN	40.74	10		Stockton to Southern Forebay	32
WFRd-C&E Access -1	Teamster G2 Hwy ED 6-8cy, Wate	162.97	10		Stockton to Southern Forebay	32
WFRd-C&E Access -1	Teamster G3 ED 8-24cy, Water>7	244.45	10		Stockton to Southern Forebay	32
TOTAL WFRd-C&E Access-1						
WFRd-C&E Access -2	Laborer G2 General	4.4	10		Stockton to Southern Forebay	32
WFRd-C&E Access -2	Operator G5 Compactor w-blade	36.66	10		Stockton to Southern Forebay	32
WFRd-C&E Access -2	Operator G4 Dozer & Push Cat	36.66	10		Stockton to Southern Forebay	32
WFRd-C&E Access -2	OPERATING ENGINEER FOREMAN	36.66	10		Stockton to Southern Forebay	32
WFRd-C&E Access -2	Operator G2 Finish Blade	18.33	10		Stockton to Southern Forebay	32
WFRd-C&E Access -2	Teamster G2 Hwy ED 6-8cy, Water<7	18.33	10		Stockton to Southern Forebay	32
TOTAL WFRd-C&E Access-2						
WFRd-C&E Access -3	Laborer G1 Pipe layers	22.22	10		Stockton to Southern Forebay	32
WFRd-C&E Access -3	Laborer Foreman	5.56	10		Stockton to Southern Forebay	32
WFRd-C&E Access -3	Operator G3 BH-Loader>3/4cy	11.11	10		Stockton to Southern Forebay	32
WFRd-C&E Access -3	Teamster G1 Hwy ED<6cy, Flatbed	8.33	10		Stockton to Southern Forebay	32
WFRd-C&E Access -3	Teamster G2 Hwy ED 6-8cy, Water<7	2.78	10		Stockton to Southern Forebay	32
TOTAL WFRd-C&E Access-3						
WFRd-C&E Access -4	Laborer G1 Pipe layers	41.25	10		Stockton to Southern Forebay	32
WFRd-C&E Access -4	Laborer G1 Power Tamper	20.63	10		Stockton to Southern Forebay	32
WFRd-C&E Access -4	Operator G4 Loader <4.1cy	10.31	10		Stockton to Southern Forebay	32
WFRd-C&E Access -4	Teamster G2 Hwy ED 6-8cy, Water<7	20.63	10		Stockton to Southern Forebay	32
TOTAL WFRd-C&E Access-4						
WFRd-C&E Access -5	Laborer G3 Flagman	133.33	10		Stockton to Southern Forebay	32
WFRd-C&E Access -5	Operator G7 Roller, Compactor	66.66	10		Stockton to Southern Forebay	32
WFRd-C&E Access -5	OPERATING ENGINEER FOREMAN	66.66	10		Stockton to Southern Forebay	32
WFRd-C&E Access -5	Operator G4 Grade Check	66.66	10		Stockton to Southern Forebay	32
WFRd-C&E Access -5	Operator G2 Finish Blade	66.66	10		Stockton to Southern Forebay	32
WFRd-C&E Access -5	Operator G8 Generator	13.33	10		Stockton to Southern Forebay	32
WFRd-C&E Access -5	Teamster G2 Hwy ED 6-8cy, Water<7	66.66	10		Stockton to Southern Forebay	32
TOTAL WFRd-C&E Access-5						
WFRd-C&E Access -6	Laborer G2 General	200.72	10		Stockton to Southern Forebay	32
WFRd-C&E Access -6	Operator G5 Asphalt Roller	100.36	10		Stockton to Southern Forebay	32
WFRd-C&E Access -6	Operator G3 BH-Loader>3/4cy	50.18	10		Stockton to Southern Forebay	32
WFRd-C&E Access -6	OPERATING ENGINEER FOREMAN	50.18	10		Stockton to Southern Forebay	32
WFRd-C&E Access -6	Operator G4 Grade Check	50.18	10		Stockton to Southern Forebay	32
WFRd-C&E Access -6	Operator G5 Paver	50.18	10		Stockton to Southern Forebay	32
WFRd-C&E Access -6	Teamster G2 Hwy ED 6-8cy, Water<7	25.09	10		Stockton to Southern Forebay	32
TOTAL WFRd-C&E Access-6						
WFRd-C&E Access -7	Iron Worker-Rigger	5.64	10		Stockton to Southern Forebay	32
WFRd-C&E Access -7	Laborer G2 General	22.56	10		Stockton to Southern Forebay	32
WFRd-C&E Access -7	Operator G4a Boom truck<15 ton	5.64	10		Stockton to Southern Forebay	32
WFRd-C&E Access -7	Operator G3 BH-Loader>3/4cy	5.64	10		Stockton to Southern Forebay	32
WFRd-C&E Access -7	OPERATING ENGINEER FOREMAN	5.64	10		Stockton to Southern Forebay	32
WFRd-C&E Access -7	Teamster G3 Boom Truck	5.64	10		Stockton to Southern Forebay	32
TOTAL WFRd-C&E Access-7						
WFRd-C&E Access -8	Laborer G2 General	66.91	10		Stockton to Southern Forebay	32
WFRd-C&E Access -8	Operator G5 Asphalt Roller	33.45	10		Stockton to Southern Forebay	32
WFRd-C&E Access -8	Operator G3 BH-Loader>3/4cy	16.73	10		Stockton to Southern Forebay	32
WFRd-C&E Access -8	OPERATING ENGINEER FOREMAN	16.73	10		Stockton to Southern Forebay	32
WFRd-C&E Access -8	Operator G4 Grade Check	16.73	10		Stockton to Southern Forebay	32
WFRd-C&E Access -8	Operator G5 Paver	16.73	10		Stockton to Southern Forebay	32
WFRd-C&E Access -8	Teamster G2 Hwy ED 6-8cy, Water<7	8.36	10		Stockton to Southern Forebay	32
TOTAL WFRd-C&E Access-8						
WFRd-C&E Access -9	Laborer G2 General	66.91	10		Stockton to Southern Forebay	32
WFRd-C&E Access -9	Operator G5 Asphalt Roller	33.45	10		Stockton to Southern Forebay	32
WFRd-C&E Access -9	Operator G3 BH-Loader>3/4cy	16.73	10		Stockton to Southern Forebay	32
WFRd-C&E Access -9	OPERATING ENGINEER FOREMAN	16.73	10		Stockton to Southern Forebay	32
WFRd-C&E Access -9	Operator G4 Grade Check	16.73	10		Stockton to Southern Forebay	32
WFRd-C&E Access -9	Operator G5 Paver	16.73	10		Stockton to Southern Forebay	32
WFRd-C&E Access -9	Teamster G2 Hwy ED 6-8cy, Water<7	8.36	10		Stockton to Southern Forebay	32
TOTAL WFRd-C&E Access-9						

Marine Inventory for Western Farm Rd - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Western Farm Rd - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

Helicopter Inventory for Western Farm Rd - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Western Farm Rd - Central & East
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

[illegible]

**Demolition Assumptions for Western Farm Rd - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Southern Complex on Byron Tract - Central						
Option 1						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Rail Features in Northern Southern Forebay	SF - Central - 1	1/5/2026	10/22/2026	208	5	10
Rail Features in the Southern portion of Southern Forebay	SF - Central - 2	1/5/2026	4/2/2027	324	5	10
Rail Yard	SF - Central - 3	5/25/2026	3/19/2027	214	5	10
Byron Highway Interchange	SF - Central - 4	5/25/2026	3/11/2027	208	5	10
Pumping Plant Initial Site Work	SF - Central - 5	7/9/2027	8/6/2027	21	5	10
Pumping Plant Ground Improvement	SF - Central - 6	7/23/2027	3/14/2028	169	5	10
Pumping Plant Construction Phase 1	SF - Central - 7	3/31/2027	2/27/2029	500	5	10
Pumping Plant Contractor Operations	SF - Central - 8	7/9/2027	7/30/2032	1321	5	10
Pumping Plant Substation	SF - Central - 9	12/21/2029	10/30/2030	225	5	10
Pumping Plant Structure Phase 1	SF - Central - 10	3/17/2027	7/13/2027	85	5	10
Pumping Plant Structure Phase 2	SF - Central - 11	12/21/2029	2/5/2031	296	5	10
Pumping Plant Structure Phase 3	SF - Central - 12	11/1/2030	8/22/2033	731	5	10
Pumping Plant Wet Well	SF - Central - 13	2/6/2031	6/16/2034	876	5	10
Pumping Plant Outlet Structure	SF - Central - 14	5/18/2032	12/28/2034	683	5	10
Pumping Plant Dissipation Slab Phase 1A	SF - Central - 15A	10/27/2031	9/27/2032	241	5	10
Pumping Plant Dissipation Slab Phase 1B	SF - Central - 15B	8/22/2034	1/15/2036	366	5	10
Pumping Plant Electrical Building	SF - Central - 16	8/22/2034	4/5/2035	163	5	10
Pumping Plant Generator Building	SF - Central - 17	4/5/2035	5/21/2035	34	5	10
Pumping Plant HVAC	SF - Central - 18	4/26/2035	6/7/2035	31	5	10
Pumping Plant Finish Site Work	SF - Central - 19	4/5/2035	8/11/2036	354	5	10
Pumping Plant Finish Work Phase 1	SF - Central - 20	3/10/2033	1/28/2036	754	5	10
Pumping Plant Finish Work Phase 2	SF - Central - 21	10/13/2031	7/9/2035	984	5	10
Pumping Plant Pumping Equipment	SF - Central - 22	12/12/2035	11/19/2036	246	5	10
Southern Forebay Site Preparation	SF - Central - 23	3/1/2028	12/7/2028	202	5	10
Southern Forebay Clear and Grub	SF - Central - 24	4/26/2028	1/4/2029	181	5	10
Southern Forebay Foundations	SF - Central - 25	4/26/2028	12/7/2029	445	5	10
Southern Forebay Embankments	SF - Central - 26	4/26/2030	7/6/2035	1355	5	10
Southern Forebay Soil Materials Handling	SF - Central - 27	6/7/2028	2/20/2035	1748	5	10
Southern Forebay Temporary Facilities During Construction	SF - Central - 28	3/1/2028	7/23/2036	2191	5	10
Southern Forebay Emnbankment Finish Work	SF - Central - 29	7/6/2035	7/23/2036	275	5	10
Southern Forebay Spillway	SF - Central - 30	7/27/2034	4/12/2035	185	5	10
Southern Forebay Outlet Structure	SF - Central - 31	1/27/2034	7/23/2036	646	5	10
Southern Forebay Inlet Structure	SF - Central - 32	4/12/2035	10/19/2035	137	5	10
Tunnel Launch Shaft Site Preparation for Shafts from Southern Forebay to South Delta Conveyance	SF - Central - 33	11/21/2029	11/14/2030	263	5	10
Raise Tunnel Eastern Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5E)	SF - Central - 34	11/21/2029	11/5/2032	771	5	10
Finalize Tunnel Eastern Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5E)	SF - Central - 35	4/18/2031	8/19/2031	90	5	10
Construct Tunnel from Eastern Shaft at Southern Forebay Outlet to South Delta Conveyance (called Shaft 5E)	SF - Central - 36	8/20/2031	9/24/2032	343	6	20
Finish Work for Tunnel Eastern Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5E)	SF - Central - 37	9/27/2032	11/15/2032	36	5	10
Raise Tunnel Western Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5W)	SF - Central - 38	7/31/2030	4/6/2034	952	5	10
Finalize Tunnel Western Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5W)	SF - Central - 39	11/28/2031	12/20/2032	277	5	10
Construct Tunnel from Western Shaft at Southern Forebay Outlet to South Delta Conveyance (called Shaft 5W)	SF - Central - 40	12/21/2032	4/21/2034	418	6	20
Finish Work for Tunnel Western Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5W)	SF - Central - 41	3/3/2034	4/21/2034	38	5	10
Tunnel Launch Shaft Site Preparation for Shaft at Northern portion of Southern Forebay	SF - Central - 42	10/12/2029	5/29/2036	1729	5	10
Raise Tunnel Shaft at Northern portion of Southern Forebay	SF - Central - 43	7/26/2030	6/25/2031	240	5	10
Finalize Tunnel Shaft at Northern portion of Southern Forebay	SF - Central - 44	6/25/2031	10/31/2031	93	5	10
Tunnel Launch Working Shaft Site Preparation at Northern portion of Southern Forebay	SF - Central - 45	12/7/2029	7/26/2030	166	5	10
Raise Tunnel Working Shaft at Northern portion of Southern Forebay	SF - Central - 46	3/8/2030	11/18/2031	446	5	10
Finalize Tunnel Working Shaft at Northern portion of Southern Forebay	SF - Central - 47	11/18/2031	2/9/2032	60	5	10
Construct Tunnel from Southern Forebay to Reception Shaft	SF - Central - 48	10/31/2031	2/21/2036	1349	6	20

Total Site Acres	1700					
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**Vehicle Inventory for Southern Complex on Byron Tract - Central
Option 1**

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
SF - Central - 1	Air Compressor 185 cfm	Air Compressor	8.9	208	0.0	Diesel Tier 4	49	0.48		
SF - Central - 1	CAT Forklift 5,500 LB	Aerial Lift	799.7	208	3.8	Diesel	63	0.31		
SF - Central - 1	Grove RT Crane 30T	Crane	319.9	208	1.5	Diesel	160	0.29		
SF - Central - 1	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	4.4	208	0.0	Diesel	75	0.31		
SF - Central - 1	Boom Truck, 12.5 Tn Boom	Crane	4.4	208	0.0	Diesel or Hybrid	100	0.29		
SF - Central - 2	Air Compressor 185 cfm	Air Compressor	44.4	324	0.1	Diesel Tier 4	49	0.48		
SF - Central - 2	Boom Truck, 12.5 Tn Boom	Crane	22.2	324	0.1	Diesel or Hybrid	100	0.29		
SF - Central - 2	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	22.2	324	0.1	Diesel	75	0.31		
SF - Central - 2	CAT Forklift 5,500 LB	Aerial Lift	4000.3	324	12.3	Diesel	63	0.31		
SF - Central - 2	Grove RT Crane 55T, 247 hp	Crane	1600.1	324	4.9	Diesel	247	0.29		
SF - Central - 3	CAT 14 M	Grader	853.3	214	4.0	Diesel	274	0.41		
SF - Central - 3	CAT 825, Roller	Roller	466.1	214	2.2	Diesel	315	0.38		
SF - Central - 3	CAT 962 H Wheel Loader	Rubber Tired Loader	620.2	214	2.9	Diesel	230	0.36		
SF - Central - 3	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	620.2	214	2.9	Diesel	158	0.38		
SF - Central - 3	CAT D6LGPDozer w winch	Crawler Tractor	1799.2	214	8.4	Diesel or Hybrid	179	0.43		
SF - Central - 3	CAT LOADER/HOE 416 E	Rubber Tired Loaders	2613.1	214	12.2	Diesel	78	0.36		
SF - Central - 3	Compactor, Trench Roller, Vib 32" w	Rollers	378.7	214	1.8	Diesel	20	0.38		
SF - Central - 3	Disk, Towed	Off Highway Tractor	466.1	214	2.2	Diesel	140	0.44		
SF - Central - 3	Grove RT Crane 55T, 247 hp	Crane	2423.8	214	11.3	Diesel	247	0.29		
SF - Central - 3	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	363.6	214	1.7	Diesel	384	0.38		
SF - Central - 3	Water Pump, 4" Diesel	Pumps	180	214	0.8	Diesel	10	0.74		
SF - Central - 4	Air Compressor 375 cfm	Air Compressor	30.4	208	0.1	Diesel Tier 4	122	0.48		
SF - Central - 4	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	311.9	208	1	Diesel or Hybrid	224	0.42		
SF - Central - 4	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	311.9	208	1	Diesel or Hybrid	137	0.38		
SF - Central - 4	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	311.9	208	1	Diesel or Hybrid	133	0.38		
SF - Central - 4	CAT 14 M	Grader	646.9	208	3.1	Diesel	274	0.41		
SF - Central - 4	CAT 815, Roller	Roller	203.4	208	1.0	Diesel	170	0.38		
SF - Central - 4	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	545.3	208	2.6	Diesel	158	0.38		
SF - Central - 4	CAT D6LGPDozer w winch	Crawler Tractor	470.7	208	2.3	Diesel or Hybrid	179	0.43		
SF - Central - 4	CAT LOADER/HOE 416 E	Rubber Tired Loaders	477.9	208	2.3	Diesel	78	0.36		
SF - Central - 4	Compactor, Plate, 22" w x 35"	Plate Compactors	30.4	208	0.1	Diesel	8.5	0.43		
SF - Central - 4	Compactor, Trench Roller, Vib 32" w Disk,	Rollers	140	208	0.7	Diesel	20	0.38		
SF - Central - 4	Towed	Off Highway Tractor	203.4	208	1.0	Diesel	140	0.44		
SF - Central - 4	Grove RT Crane 55T, 247 hp	Crane	1424.2	208	6.8	Diesel	247	0.29		
SF - Central - 4	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	267.3	208	1.3	Diesel	384	0.38		
SF - Central - 4	Manitowoc 555 150T, 250' Boom Water	Crane	1424.2	208	6.8	Diesel	760	0.29		
SF - Central - 4	Pump, 4" Diesel	Pumps	569.7	208	2.7	Diesel	10	0.74		
SF - Central - 5	CAT 14 M	Grader	288.3	21	13.7	Diesel	274	0.41		
SF - Central - 5	CAT 988 H Wheel Loader	Rubber Tired Loader	104.1	21	5.0	Diesel	400	0.36		
SF - Central - 5	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	104.1	21	5.0	Diesel	158	0.38		
SF - Central - 5	CAT D3 LGR, Dozer	Crawler Tractor	160	21	7.6	Diesel or Hybrid	76	0.43		
SF - Central - 5	CAT D6LGPDozer w winch	Crawler Tractor	160	21	7.6	Diesel or Hybrid	179	0.43		
SF - Central - 5	CAT IT28H, 10640 LB Tool Carrier Water	Rubber Tired Loaders	160	21	7.6	Diesel	145	0.36		
SF - Central - 5	Pump, 6" Diesel	Pumps	104.1	21	5.0	Diesel	13	0.74		
SF - Central - 5	Water Pump, 3" Gas, Diaphragm	Pumps	160	21	7.6	Gasoline	10	0.74		
SF - Central - 6	Air Compressor 185 cfm	Air Compressor	790.9	169	4.7	Diesel Tier 4	49	0.48		
SF - Central - 6	Air Compressor 375 cfm	Air Compressor	12675	169	75	Diesel Tier 4	122	0.48		
SF - Central - 6	Boom Truck, 12.5 Tn Boom	Crane	395.5	169	2.3	Diesel or Hybrid	100	0.29		
SF - Central - 6	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	12675	169	75	Diesel	110	0.36		
SF - Central - 6	DMM Deep Soil Mixer, 3 Shaft, 808 HP	Bore Drill Rig	12675	169	75	Diesel	808	0.5		
SF - Central - 6	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	12675	169	75	Diesel	500	0.34		
SF - Central - 6	Grove RT Crane 30T	Crane	15820	169	75	Diesel	160	0.29		
SF - Central - 6	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	395.5	169	2.3	Diesel	75	0.31		
SF - Central - 6	Portable, 90 Kw, Diesel, 158HP	Welders	1183	169	7	Diesel Tier 4	158	0.74		
SF - Central - 7	Air Compressor 185 cfm	Air Compressor	2924.3	500	5.8	Diesel Tier 4	49	0.48		
SF - Central - 7	Boom Truck, 12.5 Tn Boom	Crane	1462.2	500	2.9	Diesel or Hybrid	100	0.29		
SF - Central - 7	CAT 14 M	Grader	80	500	0.2	Diesel	274	0.41		
SF - Central - 7	Cat 613 C Self Loading Scraper	Scraper	160	500	0.3	Diesel	187	0.48		
SF - Central - 7	CAT 950 H Wheel Loader	Rubber Tired Loaders	800	500	1.6	Diesel or Hybrid	130	0.36		
SF - Central - 7	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	80	500	0.2	Diesel	158	0.38		
SF - Central - 7	CAT D6LGPDozer w winch	Crawler Tractor	80	500	0.2	Diesel or Hybrid	179	0.43		
SF - Central - 7	CAT LOADER/HOE 416 E	Rubber Tired Loaders	7800	500	15.6	Diesel	78	0.36		
SF - Central - 7	Compactor, Plate, 22" w x 35"	Plate Compactors	400	500	0.8	Diesel	8.5	0.43		
SF - Central - 7	Disk, Towed	Off Highway Tractor	7800	500	15.6	Diesel	140	0.44		
SF - Central - 7	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	3900	500	7.8	Diesel	80	0.44		
SF - Central - 7	Grove RT Crane 30T	Crane	140.9	500	0.3	Diesel	160	0.29		
SF - Central - 7	Grove RT Crane 80T, 275hp	Crane	140.9	500	0.3	Diesel	275	0.29		
SF - Central - 7	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	1532.6	500	3.1	Diesel	75	0.31		
SF - Central - 7	Water Pump, 4" Diesel	Pumps	80	500	0.2	Diesel	10	0.74		
SF - Central - 8	Air Compressor 900 cfm	Air Compressor	10400	1321	7.9	Diesel Tier 4	300	0.48		
SF - Central - 8	CAT 12 M	Grader	1432.8	1321	1.1	Diesel	173	0.41		
SF - Central - 8	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	1432.8	1321	1.1	Diesel	158	0.38		
SF - Central - 8	CAT LOADER/HOE 416 E	Rubber Tired Loaders	7164.2	1321	5.4	Diesel	78	0.36		
SF - Central - 8	Manitowoc 999-275 Ton Crane	Crane	20800	1321	15.7	Diesel	900	0.29		
SF - Central - 8	Portable, 90 Kw, Diesel, 158HP	Welders	20800	1321	15.7	Diesel Tier 4	158	0.74		
SF - Central - 8	Trk Crane, 200tn Hyd, 197bm, 563hp	Crane	20800	1321	15.7	Diesel	563	0.29		
SF - Central - 9	400A Diesel Welder, Trailer Mounted	Welders	340	225	1.5	Diesel	22	0.45		
SF - Central - 9	Air Compressor 185 cfm	Air Compressor	1000	225	4.4	Diesel Tier 4	49	0.48		
SF - Central - 9	Air Compressor 900 cfm	Air Compressor	1000	225	4.4	Diesel Tier 4	300	0.48		
SF - Central - 9	Boom Truck, 12.5 Tn Boom	Crane	1000	225	4.4	Diesel or Hybrid	100	0.29		
SF - Central - 9	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	533.3	225	2.4	Diesel	110	0.36		
SF - Central - 9	CAT 12 M	Grader	6.3	225	0.0	Diesel	173	0.41		
SF - Central - 9	CAT 950 H Wheel Loader	Rubber Tired Loaders	616.7	225	2.7	Diesel or Hybrid	130	0.36		
SF - Central - 9	CAT 973 Track Loader, 4.2 cy, 263hp	Skid Loader	40	225	0.2	Diesel or Hybrid	210	0.37		
SF - Central - 9	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	83.3	225	0.4	Diesel	158	0.38		
SF - Central - 9	CAT D3 LGR, Dozer	Crawler Tractor	83.3	225	0.4	Diesel or Hybrid	76	0.43		
SF - Central - 9	CAT D6LGPDozer w winch	Crawler Tractor	25	225	0.1	Diesel or Hybrid	179	0.43		
SF - Central - 9	Compactor, Plate, 22" w x 35"	Plate Compactors	266.7	225	1.2	Diesel	8.5	0.43		
SF - Central - 9	Concrete Vibrator, 2"	Other Construction Eq	600	225	2.7	Gasoline	3	0.42		
SF - Central - 9	Grove RT Crane 30T	Crane	1000	225	4.4	Diesel	160	0.29		

SF - Central - 9	Grove RT Crane 55T, 247 hp	Crane	190	225	0.8	Diesel	247	0.29
SF - Central - 9	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	25	225	0.1	Diesel	384	0.38
SF - Central - 9	Manitowoc 555 150T, 250' Boom	Crane	40	225	0.2	Diesel	760	0.29
SF - Central - 9	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	40	225	0.2	Diesel	75	0.31
SF - Central - 9	Portable, 90 Kw, Diesel, 158HP	Welders	300	225	1.3	Diesel Tier 4	158	0.74
SF - Central - 10	400A Diesel Welder, Trailer Mounted	Welders	81.3	85	1.0	Diesel	22	0.45
SF - Central - 10	CAT 14 M	Grader	74.2	85	0.9	Diesel	274	0.41
SF - Central - 10	CAT 988 H Wheel Loader	Rubber Tired Loader	74.2	85	0.9	Diesel	400	0.36
SF - Central - 10	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	74.2	85	0.9	Diesel	158	0.38
SF - Central - 10	Grove RT Crane 55T, 247 hp	Crane	162.5	85	1.9	Diesel	247	0.29
SF - Central - 10	Portable, 90 Kw, Diesel, 158HP	Welders	81.3	85	1.0	Diesel Tier 4	158	0.74
SF - Central - 10	Water Pump, 6" Diesel	Pumps	74.2	85	0.9	Diesel	13	0.74
SF - Central - 11	Air Compressor 185 cfm	Air Compressor	927.1	296	3.1	Diesel Tier 4	49	0.48
SF - Central - 11	Bentonite Mix Plant/Desander	Cement & Mortar Mix	8562.9	296	28.9	Diesel Tier 4	100	0.56
SF - Central - 11	Boom Truck, 12.5 Tn Boom	Crane	463.6	296	1.6	Diesel or Hybrid	100	0.29
SF - Central - 11	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	8562.9	296	28.9	Diesel	110	0.36
SF - Central - 11	CAT 14 M	Grader	417.6	296	1.4	Diesel	274	0.41
SF - Central - 11	CAT 962 H Wheel Loader	Rubber Tired Loader	8562.9	296	28.9	Diesel	230	0.36
SF - Central - 11	CAT 988 H Wheel Loader	Rubber Tired Loader	208.8	296	0.7	Diesel	400	0.36
SF - Central - 11	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	208.8	296	0.7	Diesel	158	0.38
SF - Central - 11	CAT D6LGPDozer w winch	Crawler Tractor	8562.9	296	28.9	Diesel or Hybrid	179	0.43
SF - Central - 11	Grove RT Crane 55T, 247 hp	Crane	8564	296	28.9	Diesel	247	0.29
SF - Central - 11	Grove RT Crane 80T, 275hp	Crane	8562.9	296	28.9	Diesel	275	0.29
SF - Central - 11	Manitowoc 555 150T, 250' Boom	Crane	15891.7	296	53.7	Diesel	760	0.29
SF - Central - 11	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	463.6	296	1.6	Diesel	75	0.31
SF - Central - 11	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	8562.9	296	29	Diesel	8	0.56
SF - Central - 11	Slurry Wall Techniwell	Pumps	8562.9	296	29	Diesel	500	0.74
SF - Central - 11	Well Drill	Bore/Drill Rigs	200	296	0.7	Diesel	136	0.5
SF - Central - 12	400A Diesel Welder, Trailer Mounted	Welders	3387.2	731	4.6	Diesel	22	0.45
SF - Central - 12	Air Compressor 375 cfm	Air Compressor	60.9	731	0.1	Diesel Tier 4	122	0.48
SF - Central - 12	Air Compressor 900 cfm	Air Compressor	2708.8	731	3.7	Diesel Tier 4	300	0.48
SF - Central - 12	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Construction E	215.1	731	0.3	Diesel	50	0.42
SF - Central - 12	Bobcat S630 Skid Steer Loader	Skid Loader	277.8	731	0.4	Diesel	74	0.37
SF - Central - 12	CAT 14 M	Grader	135.8	731	0.2	Diesel	274	0.41
SF - Central - 12	CAT 390 MASS EXC	Excavator	1828	731	2.5	Diesel	534	0.38
SF - Central - 12	CAT 815, Roller	Roller	271.6	731	0.4	Diesel	170	0.38
SF - Central - 12	CAT D6LGPDozer w winch	Crawler Tractor	271.6	731	0.4	Diesel or Hybrid	179	0.43
SF - Central - 12	CAT D8Ril, Dozer w winch	Crawler Tractor	1443	731	2.0	Diesel	310	0.43
SF - Central - 12	Concrete Vibrator, 2"	Other Construction Eq	9979	731	13.7	Gasoline	3	0.42
SF - Central - 12	Grove RT Crane 15T, 100hp	Crane	376.9	731	0.5	Diesel	100	0.29
SF - Central - 12	Grove RT Crane 55T, 247 hp	Crane	7537.4	731	10.3	Diesel	247	0.29
SF - Central - 12	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	1556.4	731	2.1	Diesel	345	0.38
SF - Central - 12	Manitowoc 555 150T, 250' Boom Portable, 20 Kw, Diesel, 36HP	Crane	16929.6	731	23.2	Diesel	760	0.29
SF - Central - 12	Portable, 90 Kw, Diesel, 158HP	Welders	60.9	731	0.1	Diesel Tier 4	36	0.74
SF - Central - 12	Water Pump, 10" Diesel	Pumps	3326.3	731	4.6	Diesel Tier 4	158	0.74
SF - Central - 12			2146	731	2.9	Diesel	200	0.74
SF - Central - 13	400A Diesel Welder, Trailer Mounted	Welders	1635.3	876	1.9	Diesel	22	0.45
SF - Central - 13	Air Compressor 185 cfm	Air Compressor	127.3	876	0.1	Diesel Tier 4	49	0.48
SF - Central - 13	Air Compressor 375 cfm	Air Compressor	5	876	0.0	Diesel Tier 4	122	0.48
SF - Central - 13	Air Compressor 900 cfm	Air Compressor	1630.3	876	1.9	Diesel Tier 4	300	0.48
SF - Central - 13	Bentonite Mix Plant/Desander	Cement & Mortar Mix	1948.9	876	2.2	Diesel Tier 4	100	0.56
SF - Central - 13	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Construction E	171.6	876	0.2	Diesel	50	0.42
SF - Central - 13	Bobcat S630 Skid Steer Loader	Skid Loader	90.7	876	0.1	Diesel	74	0.37
SF - Central - 13	Boom Truck, 12.5 Tn Boom	Crane	108.5	876	0.1	Diesel or Hybrid	100	0.29
SF - Central - 13	CAT 12 M	Grader	59.9	876	0.1	Diesel	173	0.41
SF - Central - 13	CAT 14 M	Grader	99.2	876	0.1	Diesel	274	0.41
SF - Central - 13	CAT 390 MASS EXC	Excavator	61.3	876	0.1	Diesel	534	0.38
SF - Central - 13	CAT 815, Roller	Roller	61.3	876	0.1	Diesel	170	0.38
SF - Central - 13	CAT 962 H Wheel Loader	Rubber Tired Loader	1948.9	876	2.2	Diesel	230	0.36
SF - Central - 13	CAT 988 H Wheel Loader	Rubber Tired Loader	34.2	876	0.0	Diesel	400	0.36
SF - Central - 13	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	34.2	876	0.0	Diesel	158	0.38
SF - Central - 13	CAT D3 LGP, Dozer	Crawler Tractor	239.7	876	0.3	Diesel or Hybrid	76	0.43
SF - Central - 13	CAT D6LGPDozer w winch	Crawler Tractor	2010.2	876	2.3	Diesel or Hybrid	179	0.43
SF - Central - 13	CAT D8Ril, Dozer w winch	Crawler Tractor	325.8	876	0.4	Diesel	310	0.43
SF - Central - 13	Compactor, Plate, 22" w x 35" Compactor, Trench Roller, Vib 32" w	Plate Compactors	90.7	876	0.1	Diesel	8.5	0.43
SF - Central - 13		Rollers	90.7	876	0.1	Diesel	20	0.38
SF - Central - 13	Concrete Vibrator, 2"	Other Construction Eq	4890.8	876	5.6	Gasoline	3	0.42
SF - Central - 13	Grove RT Crane 55T, 247 hp	Crane	440.5	876	0.5	Diesel	247	0.29
SF - Central - 13	Grove RT Crane 80T, 275hp	Crane	3898.2	876	4.5	Diesel	275	0.29
SF - Central - 13	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	239.7	876	0.3	Diesel	384	0.38
SF - Central - 13	Manitowoc 555 150T, 250' Boom	Crane	10333.5	876	11.8	Diesel	760	0.29
SF - Central - 13	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	108.5	876	0.1	Diesel	75	0.31
SF - Central - 13	Portable, 90 Kw, Diesel, 158HP	Welders	1630.3	876	1.9	Diesel Tier 4	158	0.45
SF - Central - 13	Water Pump, 10" Diesel	Pumps	1600	876	1.8	Diesel	200	0.74
SF - Central - 13	Water Pump, 6" Diesel	Pumps	1983.1	876	2.3	Diesel	13	0.74
SF - Central - 14	400A Diesel Welder, Trailer Mounted	Welders	3338.6	683	4.9	Diesel	22	0.45
SF - Central - 14	Air Compressor 375 cfm	Air Compressor	183	683	0.3	Diesel Tier 4	122	0.48
SF - Central - 14	Air Compressor 900 cfm	Air Compressor	2155.6	683	3.2	Diesel Tier 4	300	0.48
SF - Central - 14	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Construction E	346.1	683	0.5	Diesel	50	0.42
SF - Central - 14	Bobcat S630 Skid Steer Loader	Skid Loader	1435.5	683	2.1	Diesel	74	0.37
SF - Central - 14	CAT 14 M	Grader	254.4	683	0.4	Diesel	274	0.41
SF - Central - 14	CAT 390 MASS EXC	Excavator	959.8	683	1.4	Diesel	534	0.38
SF - Central - 14	CAT 815, Roller	Roller	508.8	683	0.7	Diesel	170	0.38
SF - Central - 14	CAT D6LGPDozer w winch	Crawler Tractor	508.8	683	0.7	Diesel or Hybrid	179	0.43
SF - Central - 14	CAT D8Ril, Dozer w winch	Crawler Tractor	508.8	683	0.7	Diesel	310	0.43
SF - Central - 14	Compactor, Plate, 22" w x 35" Compactor, Trench Roller, Vib 32" w Concrete Vibrator, 2"	Plate Compactors	1435.5	683	2.1	Diesel	8.5	0.43
SF - Central - 14		Roller	1435.5	683	2.1	Diesel	20	0.38
SF - Central - 14		Other Construction Eq	9466.8	683	13.9	Gasoline	3	0.42
SF - Central - 14	Grove RT Crane 55T, 247 hp	Crane	3318.6	683	4.9	Diesel	247	0.29
SF - Central - 14	Grove RT Crane 80T, 275hp	Crane	399.3	683	0.6	Diesel	275	0.29
SF - Central - 14	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	451	683	0.7	Diesel	345	0.38
SF - Central - 14	Light Plant, 4 lite, 1000w, Tower/Mast	Generator	360	683	0.5	Diesel	12	0.74
SF - Central - 14	Manitowoc 555 150T, 250' Boom	Crane	7689.1	683	11.3	Diesel	760	0.29
SF - Central - 14	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	163	683	0.2	Diesel	75	0.31
SF - Central - 14	Portable, 20 Kw, Diesel, 36HP	Welders	163	683	0.2	Diesel Tier 4	36	0.45
SF - Central - 14	Portable, 90 Kw, Diesel, 158HP	Welders	3155.6	683	4.6	Diesel Tier 4	158	0.45
SF - Central - 14	Vibro Driver/Extractor V208	Other Construction Eq	163	683	0.2	Diesel	325	0.42

SF - Central - 15A	400A Diesel Welder, Trailer Mounted	Welders	3120	241	12.9	Diesel	22	0.45
SF - Central - 15A	CAT IT28H, 10640 LB Tool Carrier	Rubber Tired Loaders	3120	241	12.9	Diesel	145	0.36
SF - Central - 15A	Manitowoc 555 150T, 250' Boom	Crane	3120	241	12.9	Diesel	760	0.29
SF - Central - 15B	400A Diesel Welder, Trailer Mounted	Welders	897.3	366	2.5	Diesel	22	0.45
SF - Central - 15B	Air Compressor 185 cfm	Air Compressor	80	366	0.2	Diesel Tier 4	49	0.48
SF - Central - 15B	Air Compressor 375 cfm	Air Compressor	616.4	366	1.7	Diesel Tier 4	122	0.48
SF - Central - 15B	Air Compressor 900 cfm	Air Compressor	897.3	366	2.5	Diesel Tier 4	300	0.48
SF - Central - 15B	Bentonite Mix Plant/Desander	Cement & Mortar Mix	6164	366	16.8	Diesel Tier 4	100	0.56
SF - Central - 15B	Bidwell Bridge Deck Screed-Finish, 50 HP	Other Construction E	84.2	366	0.2	Diesel	50	0.42
SF - Central - 15B	Bobcat S630 Skid Steer Loader	Skid Loader	260.9	366	0.7	Diesel	74	0.37
SF - Central - 15B	Boom Truck, 12.5 Tn Boom	Crane	40	366	0.1	Diesel or Hybrid	100	0.29
SF - Central - 15B	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	616.4	366	1.7	Diesel	110	0.36
SF - Central - 15B	CAT 12 M	Grader	311.1	366	0.9	Diesel	173	0.41
SF - Central - 15B	CAT 14 M	Grader	792.8	366	2.2	Diesel	274	0.41
SF - Central - 15B	CAT 953 Track Loader, 2.25cy, 148hp	Skid Loader	616.4	366	1.7	Diesel	148	0.37
SF - Central - 15B	CAT 988 H Wheel Loader	Rubber Tired Loader	396.4	366	1.1	Diesel	400	0.36
SF - Central - 15B	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	396.4	366	1.1	Diesel	158	0.38
SF - Central - 15B	CAT D6LGPDozer w winch	Crawler Tractor	3105.1	366	8.5	Diesel or Hybrid	179	0.43
SF - Central - 15B	Compactor, Plate, 22" w x 35"	Plate Compactors	260.9	366	0.7	Diesel	8.5	0.43
SF - Central - 15B	Compactor, Trench Roller, Vib 32" w	Roller	260.9	366	0.7	Diesel	20	0.38
SF - Central - 15B	Concrete Vibrator, 2"	Other Construction Eq	2692	366	7.4	Gasoline	3	0.42
SF - Central - 15B	Grove RT Crane 15T, 100hp	Crane	616.4	366	1.7	Diesel	100	0.29
SF - Central - 15B	Grove RT Crane 55T, 247 hp	Crane	1077.3	366	2.9	Diesel	247	0.29
SF - Central - 15B	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	1244.4	366	3.4	Diesel	384	0.38
SF - Central - 15B	Manitowoc 555 150T, 250' Boom	Crane	3034.3	366	8.3	Diesel	760	0.29
SF - Central - 15B	Portable, 90 Kw, Diesel, 158HP	Welders	897.3	366	2.5	Diesel Tier 4	158	0.45
SF - Central - 15B	Water Pump, 6" Diesel	Pumps	1012.8	366	2.8	Diesel	13	0.74
SF - Central - 16	400A Diesel Welder, Trailer Mounted	Welders	301.1	163	1.8	Diesel	22	0.45
SF - Central - 16	Air Compressor 185 cfm	Air Compressor	1146.7	163	7.0	Diesel Tier 4	49	0.48
SF - Central - 16	Air Compressor 900 cfm	Air Compressor	301.1	163	1.8	Diesel Tier 4	300	0.48
SF - Central - 16	Bidwell Bridge Deck Screed-Finish, 50 HP	Other Construction E	94.9	163	0.6	Diesel	50	0.42
SF - Central - 16	Boom Truck, 12.5 Tn Boom	Crane	1146.7	163	7.0	Diesel or Hybrid	100	0.29
SF - Central - 16	CAT 950 H Wheel Loader	Rubber Tired Loaders	75.3	163	0.5	Diesel or Hybrid	130	0.36
SF - Central - 16	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	75.3	163	0.5	Diesel	158	0.38
SF - Central - 16	CAT D3 LGP, Dozer	Crawler Tractor	75.3	163	0.5	Diesel or Hybrid	76	0.43
SF - Central - 16	Concrete Vibrator, 2"	Other Construction Eq	602.2	163	3.7	Gasoline	3	0.42
SF - Central - 16	Grove RT Crane 30T	Crane	1146.7	163	7.0	Diesel	160	0.29
SF - Central - 16	Grove RT Crane 55T, 247 hp	Crane	301.1	163	1.8	Diesel	247	0.29
SF - Central - 16	Manitowoc 555 150T, 250' Boom	Crane	301.1	163	1.8	Diesel	760	0.29
SF - Central - 16	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	1146.7	163	7.0	Diesel	75	0.31
SF - Central - 17	400A Diesel Welder, Trailer Mounted	Welders	81	34	2.4	Diesel	22	0.45
SF - Central - 17	Air Compressor 185 cfm	Air Compressor	1283.33	34	37.7	Diesel Tier 4	49	0.48
SF - Central - 17	Air Compressor 900 cfm	Air Compressor	80.95	34	2.4	Diesel Tier 4	300	0.48
SF - Central - 17	Bidwell Bridge Deck Screed-Finish, 50 HP	Other Construction E	25.5	34	0.8	Diesel	50	0.42
SF - Central - 17	Boom Truck, 12.5 Tn Boom	Crane	1283.33	34	37.7	Diesel or Hybrid	100	0.29
SF - Central - 17	CAT 950 H Wheel Loader	Rubber Tired Loaders	11.3	34	0.3	Diesel or Hybrid	130	0.36
SF - Central - 17	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	11.3	34	0.3	Diesel	158	0.38
SF - Central - 17	CAT D3 LGP, Dozer	Crawler Tractor	11.3	34	0.3	Diesel or Hybrid	76	0.43
SF - Central - 17	Concrete Vibrator, 2"	Other Construction Eq	161.9	34	4.8	Gasoline	3	0.42
SF - Central - 17	Grove RT Crane 30T	Crane	1283.33	34	37.7	Diesel	160	0.29
SF - Central - 17	Grove RT Crane 55T, 247 hp	Crane	80.95	34	2.4	Diesel	247	0.29
SF - Central - 17	Manitowoc 555 150T, 250' Boom	Crane	80.95	34	2.4	Diesel	760	0.29
SF - Central - 17	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	1283.33	34	37.7	Diesel	75	0.31
SF - Central - 17	Portable, 90 Kw, Diesel, 158HP	Welders	81	34	2.4	Diesel Tier 4	158	0.45
SF - Central - 18	400A Diesel Welder, Trailer Mounted	Welders	44.1	31	1.4	Diesel	22	0.45
SF - Central - 18	Air Compressor 185 cfm	Air Compressor	0.2	31	0.0	Diesel Tier 4	49	0.48
SF - Central - 18	Air Compressor 900 cfm	Air Compressor	44.1	31	1.4	Diesel Tier 4	300	0.48
SF - Central - 18	Boom Truck, 12.5 Tn Boom	Crane	0.1	31	0.0	Diesel or Hybrid	100	0.29
SF - Central - 18	CAT 950 H Wheel Loader	Rubber Tired Loaders	25.2	31	0.8	Diesel or Hybrid	130	0.36
SF - Central - 18	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	25.2	31	0.8	Diesel	158	0.38
SF - Central - 18	CAT D3 LGP, Dozer	Crawler Tractor	25.2	31	0.8	Diesel or Hybrid	76	0.43
SF - Central - 18	Concrete Vibrator, 2"	Other Construction Eq	88.3	31	2.8	Gasoline	3	0.42
SF - Central - 18	Grove RT Crane 30T	Crane	0.1	31	0.0	Diesel	160	0.29
SF - Central - 18	Grove RT Crane 55T, 247 hp	Crane	44.1	31	1.4	Diesel	247	0.29
SF - Central - 18	Manitowoc 555 150T, 250' Boom	Crane	44.1	31	1.4	Diesel	760	0.29
SF - Central - 18	Portable, 90 Kw, Diesel, 158HP	Welders	44.1	31	1.4	Diesel Tier 4	158	0.45
SF - Central - 19	400A Diesel Welder, Trailer Mounted	Welders	807.9	354	2.3	Diesel	22	0.45
SF - Central - 19	Air Compressor 185 cfm	Air Compressor	2290	354	6.5	Diesel Tier 4	49	0.48
SF - Central - 19	Air Compressor 900 cfm	Air Compressor	807.9	354	2.3	Diesel Tier 4	300	0.48
SF - Central - 19	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	37.4	354	0	Diesel or Hybrid	224	0.42
SF - Central - 19	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	37.4	354	0	Diesel or Hybrid	137	0.38
SF - Central - 19	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	37.4	354	0	Diesel or Hybrid	133	0.38
SF - Central - 19	Bidwell Bridge Deck Screed-Finish, 50 HP	Other Construction E	254.5	354	0.7	Diesel	50	0.42
SF - Central - 19	Bobcat S630 Skid Steer Loader	Skid Loader	1162	354	3.3	Diesel	74	0.37
SF - Central - 19	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	781.1	354	2.2	Diesel	110	0.36
SF - Central - 19	CAT 14 M	Grader	62.8	354	0.2	Diesel	274	0.41
SF - Central - 19	Boom Truck, 12.5 Tn Boom	Crane	2290	354	6.5	Diesel or Hybrid	100	0.29
SF - Central - 19	CAT 390 MASS EXC	Excavator	2.6	354	0.0	Diesel	534	0.38
SF - Central - 19	CAT 825, Roller	Roller	2.6	354	0.0	Diesel	315	0.38
SF - Central - 19	CAT 950 H Wheel Loader	Rubber Tired Loaders	921.3	354	2.6	Diesel or Hybrid	130	0.36
SF - Central - 19	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	200.4	354	0.6	Diesel	158	0.38
SF - Central - 19	CAT D3 LGP, Dozer	Crawler Tractor	140.3	354	0.4	Diesel or Hybrid	76	0.43
SF - Central - 19	CAT D6LGPDozer w winch	Crawler Tractor	5.3	354	0.0	Diesel or Hybrid	179	0.43
SF - Central - 19	CAT LOADER/HOE 416 E	Rubber Tired Loaders	604.9	354	1.7	Diesel	78	0.36
SF - Central - 19	Compactor, Plate, 22" w x 35"	Plate Compactors	390.5	354	1.1	Diesel	8.5	0.43
SF - Central - 19	Concrete Vibrator, 2"	Other Construction Eq	1615.9	354	4.6	Gasoline	3	0.42
SF - Central - 19	Disk, Towed	Off Highway Tractor	2.6	354	0.0	Diesel	140	0.44
SF - Central - 19	Grove RT Crane 30T	Crane	2290	354	6.5	Diesel	160	0.29
SF - Central - 19	Grove RT Crane 55T, 247 hp	Crane	807.9	354	2.3	Diesel	247	0.29
SF - Central - 19	Manitowoc 555 150T, 250' Boom	Crane	404	354	1.1	Diesel	760	0.29
SF - Central - 19	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	2290	354	6.5	Diesel	75	0.31
SF - Central - 19	Portable, 90 Kw, Diesel, 158HP	Welders	807.9	354	2.3	Diesel Tier 4	158	0.45
SF - Central - 19	Water Pump, 4" Diesel	Pumps	12.6	354	0.0	Diesel	10	0.74
SF - Central - 20	400A Diesel Welder, Trailer Mounted	Welders	2209.8	754	2.9	Diesel	22	0.45
SF - Central - 20	Air Compressor 185 cfm	Air Compressor	5333.3	754	7.1	Diesel Tier 4	49	0.48
SF - Central - 20	Air Compressor 900 cfm	Air Compressor	2209.8	754	2.9	Diesel Tier 4	300	0.48
SF - Central - 20	Bidwell Bridge Deck Screed-Finish, 50 HP	Other Construction E	306.3	754	0.4	Diesel	50	0.42
SF - Central - 20	Bobcat S630 Skid Steer Loader	Skid Loader	89.3	754	0.1	Diesel	74	0.37
SF - Central - 20	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	4333.3	754	5.7	Diesel	110	0.36

SF - Central - 20	Boom Truck, 12.5 Tn Boom	Crane	4333.3	754	5.7	Diesel or Hybrid	100	0.29
SF - Central - 20	Compactor, Plate, 22" w x 35"	Plate Compactors	89.3	754	0.1	Diesel	8.5	0.43
SF - Central - 20	Concrete Vibrator, 2"	Other Construction Eq	6629.3	754	8.8	Gasoline	3	0.42
SF - Central - 20	Grove RT Crane 80T, 275hp	Crane	5073.3	754	6.7	Diesel	275	0.29
SF - Central - 20	Grove RT Crane 55T, 247 hp	Crane	2209.8	754	2.9	Diesel	247	0.29
SF - Central - 20	Manitowoc 555 150T, 250' Boom	Crane	6696.9	754	8.9	Diesel	760	0.29
SF - Central - 20	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	7719.3	754	10.2	Diesel	75	0.31
SF - Central - 20	Portable, 90 Kw, Diesel, 158HP	Welders	2209.8	754	2.9	Diesel Tier 4	158	0.45
SF - Central - 21	Air Compressor 185 cfm	Air Compressor	3333.3	984	3.4	Diesel Tier 4	49	0.48
SF - Central - 22	400A Diesel Welder, Trailer Mounted	Welders	400	246	1.6	Diesel	22	0.45
SF - Central - 22	Manitowoc 555 150T, 250' Boom	Crane	400	246	1.6	Diesel	760	0.29
SF - Central - 22	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	100	246	0.4	Diesel	75	0.31
SF - Central - 23	Air Compressor 185 cfm	Air Compressor	120.5	202	0.6	Diesel Tier 4	49	0.48
SF - Central - 23	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	1209.4	202	6.0	Diesel	110	0.36
SF - Central - 23	CAT 14 M	Grader	25208.8	202	124.8	Diesel	274	0.41
SF - Central - 23	Boom Truck, 12.5 Tn Boom	Crane	110.2	202	0.5	Diesel or Hybrid	100	0.29
SF - Central - 23	Cat 613 C Self Loading Scraper	Scraper	80	202	0.4	Diesel	187	0.48
SF - Central - 23	CAT 815, Roller	Roller	711.9	202	3.5	Diesel	170	0.38
SF - Central - 23	CAT 950 H Wheel Loader	Rubber Tired Loaders	1209.4	202	6.0	Diesel or Hybrid	130	0.36
SF - Central - 23	CAT 962 H Wheel Loader	Rubber Tired Loader	168.8	202	0.8	Diesel	230	0.36
SF - Central - 23	CAT 988 H Wheel Loader	Rubber Tired Loader	121.1	202	0.6	Diesel	400	0.36
SF - Central - 23	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	208.8	202	1.0	Diesel	158	0.38
SF - Central - 23	CAT D6LGPDozer w winch	Crawler Tractor	1931	202	9.6	Diesel or Hybrid	179	0.43
SF - Central - 23	CAT D8Ril, Dozer w winch	Crawler Tractor	121.1	202	0.6	Diesel	310	0.43
SF - Central - 23	CAT LOADER/HOE 416 E	Rubber Tired Loaders	6329.1	202	31.3	Diesel	78	0.36
SF - Central - 23	Compactor, Plate, 22" w x 35"	Plate Compactors	644.3	202	3.2	Diesel	8.5	0.43
SF - Central - 23	Grove RT Crane 30T	Crane	120.5	202	0.6	Diesel	160	0.29
SF - Central - 23	Grove RT Crane 80T, 275hp	Crane	120.5	202	0.6	Diesel	275	0.29
SF - Central - 23	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	1220.9	202	6.0	Diesel	384	0.38
SF - Central - 23	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	120.5	202	0.6	Diesel	75	0.31
SF - Central - 23	Water Pump, 4" Diesel	Pumps	73.8	202	0.4	Diesel	10	0.74
SF - Central - 24	CAT 14 M	Grader	100	181	0.6	Diesel	274	0.41
SF - Central - 24	CAT 950 H Wheel Loader	Rubber Tired Loaders	200	181	1.1	Diesel or Hybrid	130	0.36
SF - Central - 24	CAT D3 LGP, Dozer	Crawler Tractor	200	181	1.1	Diesel or Hybrid	76	0.43
SF - Central - 24	CAT D6LGPDozer w winch	Crawler Tractor	200	181	1.1	Diesel or Hybrid	179	0.43
SF - Central - 24	Water Pump, 3" Gas, Diaphragm	Pumps	1600	181	8.8	Gasoline	10	0.74
SF - Central - 25	Boom Truck, 12.5 Tn Boom	Crane	3900	445	8.8	Diesel or Hybrid	100	0.29
SF - Central - 25	CAT 12 M	Grader	5190.3	445	11.7	Diesel	173	0.41
SF - Central - 25	CAT D3 LGP, Dozer	Crawler Tractor	20761.4	445	46.7	Diesel or Hybrid	76	0.43
SF - Central - 25	CAT D6LGPDozer w winch	Crawler Tractor	1642.8	445	3.7	Diesel or Hybrid	179	0.43
SF - Central - 25	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	279.7	445	0.6	Diesel	345	0.38
SF - Central - 25	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	21844.8	445	49.1	Diesel	384	0.38
SF - Central - 25	Water Pump, 4" Diesel	Pumps	21900	445	49.2	Diesel	10	0.74
SF - Central - 26	Air Compressor 375 cfm	Air Compressor	13550	1355	10	Diesel Tier 4	122	0.48
SF - Central - 26	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	20738.5	1355	15.3	Diesel	110	0.36
SF - Central - 26	CAT 14 M	Grader	14302.4	1355	10.6	Diesel	274	0.41
SF - Central - 26	CAT 390 MASS EXC	Excavator	10332	1355	7.6	Diesel	534	0.38
SF - Central - 26	CAT 631G Scraper, Conventional	Scraper	73091.1	1355	53.9	Diesel	515	0.48
SF - Central - 26	CAT 825, Roller	Roller	28604.8	1355	21.1	Diesel	315	0.38
SF - Central - 26	CAT D6LGPDozer w winch	Crawler Tractor	29800.4	1355	22.0	Diesel or Hybrid	179	0.43
SF - Central - 26	CAT D9R, Dozer w ripper	Crawler Tractor	18272.8	1355	13.5	Diesel	410	0.43
SF - Central - 26	Disk, Towed	Off Highway Tractor	19468.4	1355	14.4	Diesel	140	0.44
SF - Central - 26	DMM Deep Soil Mixer, 3 Shaft, 808 HP	Bore Drill Rig	13550	1355	10	Diesel	808	0.5
SF - Central - 26	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	13550	1355	10	Diesel	500	0.34
SF - Central - 26	Grove RT Crane 30T							
SF - Central - 26	Portable, 90 Kw, Diesel, 158HP Water Pump, 4" Diesel	Generator	124751.1	1355	92.1	Diesel	12	0.74
SF - Central - 26		Welders	1355	1355	1	Diesel Tier 4	158	0.45
SF - Central - 26		Pumps	4259.1	1355	3.1	Diesel	10	0.74
SF - Central - 27	CAT 14 M	Grader	119.4	1748	0.1	Diesel	274	0.41
SF - Central - 27	Cat 613 C Self Loading Scraper	Scraper	19915.5	1748	11.4	Diesel	187	0.48
SF - Central - 27	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	119.4	1748	0.1	Diesel	158	0.38
SF - Central - 27	CAT D6LGPDozer w winch	Crawler Tractor	32095.7	1748	18.4	Diesel or Hybrid	179	0.43
SF - Central - 27	Disk, Towed	Off Highway Tractor	23282.5	1748	13.3	Diesel	140	0.44
SF - Central - 27	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	17148.8	1748	9.8	Diesel	345	0.38
SF - Central - 28	CAT 12 M	Grader	996.2	2191	0.5	Diesel	173	0.41
SF - Central - 28	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	996.2	2191	0.5	Diesel	158	0.38
SF - Central - 28	CAT LOADER/HOE 416 E	Rubber Tired Loaders	14836.9	2191	6.8	Diesel	78	0.36
SF - Central - 28	Disk, Towed	Off Highway Tractor	6535	2191	3.0	Diesel	140	0.44
SF - Central - 28	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	6535	2191	3.0	Diesel	80	0.44
SF - Central - 29	Bobcat S630 Skid Steer Loader	Skid Loader	107.1	275	0.4	Diesel	74	0.37
SF - Central - 29	Brush Chipper, 18" Cap., Trailer Mtd. 173hp	Other Construction	67	275	0.2	Diesel	173	0.42
SF - Central - 29	CAT 14 M	Grader	3150.1	275	11.5	Diesel	274	0.41
SF - Central - 29	CAT 320D, 1.56 cy, 153 hp	Excavator	67	275	0.2	Diesel	138	0.38
SF - Central - 29	Cat 613 C Self Loading Scraper	Scraper	555.3	275	2.0	Diesel	187	0.48
SF - Central - 29	CAT 825, Roller	Roller	340.7	275	1.2	Diesel	315	0.38
SF - Central - 29	CAT 950 H Wheel Loader	Rubber Tired Loaders	53.6	275	0.2	Diesel or Hybrid	130	0.36
SF - Central - 29	CAT 962 H Wheel Loader	Rubber Tired Loader	2093.1	275	7.6	Diesel	230	0.36
SF - Central - 29	CAT 966 GII Wheel Loader	Rubber Tired Loaders	2867.8	275	10.4	Diesel	286	0.36
SF - Central - 29	CAT 980 H Wheel Loader	Rubber Tired Loader	340.7	275	1.2	Diesel	393	0.36
SF - Central - 29	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	2093.1	275	7.6	Diesel	158	0.38
SF - Central - 29	CAT D3 LGP, Dozer	Crawler Tractor	26.8	275	0.1	Diesel or Hybrid	76	0.43
SF - Central - 29	CAT D6LGPDozer w winch	Crawler Tractor	869	275	3.2	Diesel or Hybrid	179	0.43
SF - Central - 29	CAT LOADER/HOE 416 E	Rubber Tired Loaders	1868.4	275	6.8	Diesel	78	0.36
SF - Central - 29	Disk, Towed	Off Highway Tractor	507.7	275	1.8	Diesel	140	0.44
SF - Central - 29	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	334	275	1.2	Diesel	80	0.44
SF - Central - 29	Gradall, 1.50 Cy, 282 Hp	Excavator	2867.8	275	10.4	Diesel	282	0.38
SF - Central - 29	Hydro Mulcher, 18 HP	Pumps	167	275	0.6	Diesel	25	0.74
SF - Central - 29	Kobelco SK485LC, 2.75cy, 345 hp Komatsu	Excavator	819.6	275	3.0	Diesel	345	0.38
SF - Central - 29	PC 600LC-8, 4.25 cy, 384 hp	Excavator	2921.3	275	10.6	Diesel	384	0.38
SF - Central - 29	Portable, 20 Kw, Diesel, 36HP	Welders	535.4	275	1.9	Diesel Tier 4	36	0.45
SF - Central - 29	Water Pump, 4" Diesel	Pumps	4488.3	275	16.3	Diesel	10	0.74
SF - Central - 29	Disk, Towed	Off Highway Tractor	507.7	275	1.8	Diesel	140	0.44
SF - Central - 30	400A Diesel Welder, Trailer Mounted	Welders	632.2	185	3.4	Diesel	22	0.45
SF - Central - 30	Air Compressor 1600 cfm	Air Compressor	38	185	0.2	Diesel Tier 4	540	0.48

SF - Central - 30	Air Compressor 375 cfm	Air Compressor	1110	185	6	Diesel Tier 4	122	0.48
SF - Central - 30	Bentonite Mix Plant/Desander	Cement & Mortar Mix	137.5	185	0.7	Diesel Tier 4	100	0.56
SF - Central - 30	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	1306.7	185	7.1	Diesel	110	0.36
SF - Central - 30	CAT 14 M	Grader	138.6	185	0.7	Diesel	274	0.41
SF - Central - 30	CAT 390 MASS EXC	Excavator	137.5	185	0.7	Diesel	534	0.38
SF - Central - 30	CAT 631G Scraper, Conventional	Scraper	808.3	185	4.4	Diesel	515	0.48
SF - Central - 30	CAT 815, Roller	Roller	618	185	3.3	Diesel	170	0.38
SF - Central - 30	CAT 950 H Wheel Loader	Rubber Tired Loaders	171.9	185	0.9	Diesel or Hybrid	130	0.36
SF - Central - 30	CAT 962 H Wheel Loader	Rubber Tired Loader	137.5	185	0.7	Diesel	230	0.36
SF - Central - 30	CAT 966 Gil Wheel Loader	Rubber Tired Loaders	137.6	185	0.7	Diesel	286	0.36
SF - Central - 30	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	171.9	185	0.9	Diesel	158	0.38
SF - Central - 30	CAT D3 LGP, Dozer	Crawler Tractor	171.9	185	0.9	Diesel or Hybrid	76	0.43
SF - Central - 30	CAT D6LGPDozer w winch	Crawler Tractor	977.7	185	5.3	Diesel or Hybrid	179	0.43
SF - Central - 30	CAT D9R, Dozer w ripper	Crawler Tractor	269.4	185	1.5	Diesel	410	0.43
SF - Central - 30	Concrete Vibrator, 2"	Other Construction Eq	290.3	185	1.6	Gasoline	3	0.42
SF - Central - 30	DMM Deep Soil Mixer, 3 Shaft, 808 HP	Bore Drill Rig	740	185	4	Diesel	808	0.5
SF - Central - 30	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	740	185	4	Diesel	500	0.34
SF - Central - 30	Gradall, 1.50 Cy, 282 Hp	Excavator	137.6	185	0.7	Diesel	282	0.38
SF - Central - 30	Grove RT Crane 30T	Crane	740	185	4	Diesel	160	0.29
SF - Central - 30	Grove RT Crane 55T, 247 hp	Crane	642.5	185	3.5	Diesel	247	0.29
SF - Central - 30	Grove RT Crane 80T, 275hp	Crane	137.5	185	0.7	Diesel	275	0.29
SF - Central - 30	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	3.9	185	0.0	Diesel	345	0.38
SF - Central - 30	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	597.3	185	3.2	Diesel	384	0.38
SF - Central - 30	Manitowoc 555 150T, 250' Boom	Crane	550	185	3.0	Diesel	760	0.29
SF - Central - 30	Manitowoc 999-275 Ton Crane	Crane	38	185	0.2	Diesel	900	0.29
SF - Central - 30	Portable, 20 Kw, Diesel, 36HP	Welders	550	185	3.0	Diesel Tier 4	36	0.45
SF - Central - 30	Portable, 90 Kw, Diesel, 158HP Vibro	Welders	90	185	<1	Diesel Tier 4	158	0.45
SF - Central - 30	Driver/Extractor V20B	Other Construction Eq	390	185	2.1	Diesel	325	0.42
SF - Central - 30	Water Pump, 4" Diesel	Pumps	32.3	185	0.2	Diesel	10	0.74
SF - Central - 30	Water Pump, 6" Diesel	Pumps	137.5	185	0.7	Diesel	13	0.74
SF - Central - 31	400A Diesel Welder, Trailer Mounted	Welders	1402.1	646	2.2	Diesel	22	0.45
SF - Central - 31	Air Compressor 1600 cfm	Air Compressor	683.4	646	1.1	Diesel Tier 4	540	0.48
SF - Central - 31	Air Compressor 185 cfm	Air Compressor	350	646	0.5	Diesel Tier 4	49	0.48
SF - Central - 31	Air Compressor 375 cfm	Air Compressor	2584	646	4	Diesel Tier 4	122	0.48
SF - Central - 31	Bentonite Mix Plant/Desander	Cement & Mortar Mix	3481.1	646	5.4	Diesel Tier 4	100	0.56
SF - Central - 31	Boom Truck, 12.5 Tn Boom	Crane	175	646	0.3	Diesel or Hybrid	100	0.29
SF - Central - 31	Manitowoc 555 150T, 250' Boom	Crane	324	646	0.5	Diesel	760	0.29
SF - Central - 31	Manitowoc 999-275 Ton Crane	Crane	603.4	646	0.9	Diesel	900	0.29
SF - Central - 31	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	7727.3	646	12.0	Diesel	110	0.36
SF - Central - 31	CAT 14 M	Grader	215.4	646	0.3	Diesel	274	0.41
SF - Central - 31	CAT 390 MASS EXC	Excavator	4091.1	646	6.3	Diesel	534	0.38
SF - Central - 31	CAT 950 H Wheel Loader	Rubber Tired Loaders	33.3	646	0.1	Diesel or Hybrid	130	0.36
SF - Central - 31	CAT 962 H Wheel Loader	Rubber Tired Loader	3481.1	646	5.4	Diesel	230	0.36
SF - Central - 31	CAT 973 Track Loader, 4.2 cy, 263hp	Skid Loader	244	646	0.4	Diesel or Hybrid	210	0.37
SF - Central - 31	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	35.3	646	0.1	Diesel	158	0.38
SF - Central - 31	CAT D6LGPDozer w winch	Crawler Tractor	3481.1	646	5.4	Diesel or Hybrid	179	0.43
SF - Central - 31	CAT D3 LGP, Dozer	Crawler Tractor	33.3	646	0.1	Diesel or Hybrid	76	0.43
SF - Central - 31	CAT D8Ril, Dozer w winch	Crawler Tractor	410.8	646	0.6	Diesel	310	0.43
SF - Central - 31	Concrete Vibrator, 2"	Other Construction Eq	4622.9	646	7.2	Gasoline	3	0.42
SF - Central - 31	DMM Deep Soil Mixer, 3 Shaft, 808 HP	Bore Drill Rig	2584	646	4	Diesel	808	0.5
SF - Central - 31	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	2584	646	4	Diesel	500	0.34
SF - Central - 31	Grove RT Crane 30T	Crane	2584	646	4	Diesel	160	0.29
SF - Central - 31	Grove RT Crane 55T, 247 hp	Crane	472.5	646	0.7	Diesel	247	0.29
SF - Central - 31	Grove RT Crane 80T, 275hp	Crane	3811.3	646	5.9	Diesel	275	0.29
SF - Central - 31	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	175	646	0.3	Diesel	75	0.31
SF - Central - 31	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	815.4	646	1.3	Diesel	384	0.38
SF - Central - 31	Portable, 90 Kw, Diesel, 158HP	Welders	300	646	<1	Diesel Tier 4	158	0.45
SF - Central - 31	Water Pump, 6" Diesel	Pumps	3481.1	646	5.4	Diesel	13	0.74
SF - Central - 31	Water Pump, 4" Diesel	Pumps	62.3	646	0.1	Diesel	10	0.74
SF - Central - 31	Well Drill	Bore/Drill Rigs	200	646	0.3	Diesel	136	0.5
SF - Central - 32	400A Diesel Welder, Trailer Mounted	Welders	948.9	137	6.9	Diesel	22	0.45
SF - Central - 32	Air Compressor 185 cfm	Air Compressor	500	137	3.6	Diesel Tier 4	49	0.48
SF - Central - 32	Air Compressor 375 cfm	Air Compressor	60	137	0.4	Diesel Tier 4	122	0.48
SF - Central - 32	Boom Truck, 12.5 Tn Boom	Crane	616.1	137	4.5	Diesel or Hybrid	100	0.29
SF - Central - 32	CAT IT28H, 10640 LB Tool Carrier	Rubber Tired Loaders	222.2	137	1.6	Diesel	145	0.36
SF - Central - 32	Grove RT Crane 30T	Crane	500	137	3.6	Diesel	160	0.29
SF - Central - 32	Grove RT Crane 15T, 100hp	Crane	116.1	137	0.8	Diesel	100	0.29
SF - Central - 32	Grove RT Crane 80T, 275hp	Crane	1018	137	7.4	Diesel	275	0.29
SF - Central - 32	Manitowoc 555 150T, 250' Boom	Crane	237.2	137	1.7	Diesel	760	0.29
SF - Central - 32	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	500	137	3.6	Diesel	75	0.31
SF - Central - 33	Air Compressor 375 cfm	Air Compressor	5680	263	21.6	Diesel Tier 4	122	0.48
SF - Central - 33	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	5680	263	21.6	Diesel	110	0.36
SF - Central - 33	CAT 825, Roller	Roller	324	263	1.2	Diesel	315	0.38
SF - Central - 33	CAT 980 H Wheel Loader	Rubber Tired Loader	324	263	1.2	Diesel	393	0.36
SF - Central - 33	CAT CB-634D Vibratory 84"	Rollers	324	263	1.2	Diesel	145	0.38
SF - Central - 33	CAT D8 Dozer	Crawler Tractor	324	263	1.2	Diesel	328	0.43
SF - Central - 33	CAT Forklift 5,500 LB	Aerial Lift	800	263	3.0	Diesel	63	0.31
SF - Central - 33	CAT Grader 16H	Graders	324	263	1.2	Diesel	285	0.41
SF - Central - 33	DMM Deep Soil Mixer,	Bore Drill Rig	5680	263	21.6	Diesel	522	0.5
SF - Central - 33	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	5680	263	21.6	Diesel	500	0.34
SF - Central - 33	Grove RT Crane 30T	Crane	5680	263	21.6	Diesel	160	0.29
SF - Central - 33	Hydraulic 40 Ton Crane	Crane	800	263	3.0	Diesel	300	0.29
SF - Central - 33	Hydraulic 9 Ton Crane	Crane	2201	263	8.4	Diesel	85	0.29
SF - Central - 33	Portable, 90 Kw, Diesel, 158HP	Welders	52	263	2	Diesel Tier 4	158	0.45
SF - Central - 34	Air Compressor 1600 cfm	Air Compressor	639	771	0.8	Diesel Tier 4	540	0.48
SF - Central - 34	250 CFM Compressor Diesel	Air Compressor	146	771	0.2	Diesel Tier 3	75	0.74
SF - Central - 34	CAT 950 H Wheel Loader	Rubber Tired Loaders	1028.6	771	1.3	Diesel or Hybrid	130	0.36
SF - Central - 34	CAT CB-634D Vibratory 84"	Rollers	3090	771	4.0	Diesel	145	0.38
SF - Central - 34	CAT D8 Dozer	Crawler Tractor	3090	771	4.0	Diesel	328	0.43
SF - Central - 34	CAT Forklift 5,500 LB	Aerial Lift	16	771	0.0	Diesel	63	0.31
SF - Central - 34	CAT Grader 16H	Graders	3090	771	4.0	Diesel	285	0.41
SF - Central - 34	CAT Hyd Excavator 1CY	Excavator	785.6	771	1.0	Diesel	138	0.38
SF - Central - 34	Hydraulic 40 Ton Crane	Crane	304.6	771	0.4	Diesel	300	0.29
SF - Central - 34	Hydraulic 9 Ton Crane	Crane	16	771	0.0	Diesel	85	0.29
SF - Central - 34	Hydraulic 55 Ton Crane	Crane	1278	771	1.7	Diesel	350	0.29
SF - Central - 34	Manitowoc 777 200 Ton Crane	Crane	2365	771	3.1	Diesel	760	0.29
SF - Central - 34	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	639	771	1	Diesel	8	0.56
SF - Central - 34	Slurry Wall Techniwell	Pumps	639	771	1	Diesel	500	0.74

SF - Central - 35	Air Compressor 1600 cfm	Air Compressor	160	90	1.8	Diesel Tier 4	540	0.48
SF - Central - 35	250 CFM Compressor Diesel	Air Compressor	1647.3	90	18.3	Diesel Tier 3	75	0.74
SF - Central - 35	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	295	90	3.3	Diesel Tier 4	210	0.38
SF - Central - 35	Water Pump, 6" Diesel	Pumps	400	90	4.4	Diesel	13	0.74
SF - Central - 35	Hydraulic 40 Ton Crane	Crane	760	90	8.4	Diesel	300	0.29
SF - Central - 35	Manitowoc 777 200 Ton Crane	Crane	922.9	90	10.3	Diesel	760	0.29
SF - Central - 35	Manitowoc 999-275 Ton Crane	Crane	393.6	90	4.4	Diesel	900	0.29
SF - Central - 35	Telescope RT Forklift 5500	Forklift	160	90	1.8	Diesel	63	0.2
SF - Central - 35	Truck Crane Lattice Boom 90T	Crane	160	90	1.8	Diesel Tier 4	300	0.29
SF - Central - 36	250 CFM Compressor Diesel	Air Compressor	5103.9	343	14.9	Diesel Tier 3	75	0.74
SF - Central - 36	CAT 988 H Wheel Loader	Rubber Tired Loader	2300	343	6.7	Diesel	400	0.36
SF - Central - 36	CAT D8 Dozer	Crawler Tractor	2300	343	6.7	Diesel	328	0.43
SF - Central - 36	CAT Forklift 5,500 LB	Aerial Lift	2590	343	7.6	Diesel	63	0.31
SF - Central - 36	Hydraulic 40 Ton Crane	Crane	2990	343	8.7	Diesel	300	0.29
SF - Central - 36	Hydraulic 9 Ton Crane	Crane	2590	343	7.6	Diesel	85	0.29
SF - Central - 37	Air Compressor 1600 cfm	Air Compressor	100	36	2.8	Diesel Tier 4	540	0.48
SF - Central - 37	Hydraulic 40 Ton Crane	Crane	100	36	2.8	Diesel	300	0.29
SF - Central - 37	Hydraulic 55 Ton Crane	Crane	715	36	19.9	Diesel	350	0.29
SF - Central - 37	Manitowoc 777 200 Ton Crane	Crane	715	36	19.9	Diesel	760	0.29
SF - Central - 37	Telescope RT Forklift 5500	Forklift	424	36	11.8	Diesel	63	0.2
SF - Central - 37	Truck Crane Lattice Boom 90T	Crane	100	36	2.8	Diesel Tier 4	300	0.29
SF - Central - 38	Air Compressor 1600 cfm	Air Compressor	639	952	0.7	Diesel Tier 4	540	0.48
SF - Central - 38	250 CFM Compressor Diesel	Air Compressor	146	952	0.2	Diesel Tier 3	75	0.74
SF - Central - 38	Air Compressor 375 cfm	Air Compressor	2133	952	2.2	Diesel Tier 4	122	0.48
SF - Central - 38	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	2133	952	2.2	Diesel	110	0.36
SF - Central - 38	CAT 950 H Wheel Loader	Rubber Tired Loaders	1028.6	952	1.1	Diesel or Hybrid	130	0.36
SF - Central - 38	CAT CB-634D Vibratory 84"	Rollers	3090	952	3.2	Diesel	145	0.38
SF - Central - 38	CAT D8 Dozer	Crawler Tractor	3090	952	3.2	Diesel	328	0.43
SF - Central - 38	CAT Forklift 5,500 LB	Aerial Lift	16	952	0.0	Diesel	63	0.31
SF - Central - 38	CAT Grader 16H	Graders	3090	952	3.2	Diesel	285	0.41
SF - Central - 38	CAT Hyd Excavator 1CY	Excavator	405.6	952	0.4	Diesel	138	0.38
SF - Central - 38	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	1278	952	1.3	Diesel Tier 4	210	0.38
SF - Central - 38	Water Pump, 6" Diesel	Pumps	400	952	0.4	Diesel	13	0.74
SF - Central - 38	DMM Deep Soil Mixer	Bore Drill Rig	2133	952	2.2	Diesel	522	0.5
SF - Central - 38	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	2133	952	2.2	Diesel	500	0.34
SF - Central - 38	Grove RT Crane 30T	Crane	2133	952	2.2	Diesel	160	0.29
SF - Central - 38	Hydraulic 40 Ton Crane	Crane	304.6	952	0.3	Diesel	300	0.29
SF - Central - 38	Hydraulic 9 Ton Crane	Crane	116	952	0.1	Diesel	85	0.29
SF - Central - 38	Hydraulic 55 Ton Crane	Crane	1278	952	1.3	Diesel	350	0.29
SF - Central - 38	CAT Hyd Excavator 1CY	Excavator	380	952	0.4	Diesel	138	0.38
SF - Central - 38	Manitowoc 777 200 Ton Crane	Crane	1726	952	1.8	Diesel	760	0.29
SF - Central - 38	Manitowoc 200 Ton Crane	Crane	639	952	0.7	Diesel	760	0.29
SF - Central - 38	Portable, 90 Kw, Diesel, 158HP	Welders	450	952	<1	Diesel Tier 4	158	0.45
SF - Central - 38	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	639	952	1	Diesel	8	0.56
SF - Central - 38	Slurry Wall Techniwell	Pumps	639	952	1	Diesel	500	0.74
SF - Central - 39	Air Compressor 1600 cfm	Air Compressor	160	277	0.6	Diesel Tier 4	540	0.48
SF - Central - 39	250 CFM Compressor Diesel	Air Compressor	1647.3	277	5.9	Diesel Tier 3	75	0.74
SF - Central - 39	Telescope RT Forklift 5500	Forklift	160	277	0.6	Diesel	63	0.2
SF - Central - 39	Truck Crane Lattice Boom 90T	Crane	160	277	0.6	Diesel Tier 4	300	0.29
SF - Central - 39	Hydraulic 40 Ton Crane	Crane	660	277	2.4	Diesel	300	0.29
SF - Central - 39	Manitowoc 777 200 Ton Crane	Crane	922.9	277	3.3	Diesel	760	0.29
SF - Central - 39	999-275 Ton Crane	Crane	393.6	277	1.4	Diesel	900	0.29
SF - Central - 40	250 CFM Compressor Diesel	Air Compressor	5115.3	418	12.2	Diesel Tier 3	75	0.74
SF - Central - 40	CAT 988 H Wheel Loader	Rubber Tired Loader	2305	418	5.5	Diesel	400	0.36
SF - Central - 40	CAT D8 Dozer	Crawler Tractor	2305	418	5.5	Diesel	328	0.43
SF - Central - 40	CAT Forklift 5,500 LB	Aerial Lift	2504	418	6.0	Diesel	63	0.31
SF - Central - 40	Hydraulic 40 Ton Crane	Crane	2904	418	6.9	Diesel	300	0.29
SF - Central - 40	Hydraulic 9 Ton Crane	Crane	2504	418	6.0	Diesel	85	0.29
SF - Central - 41	Air Compressor 1600 cfm	Air Compressor	100	38	2.6	Diesel Tier 4	540	0.48
SF - Central - 41	Hydraulic 40 Ton Crane	Crane	100	38	2.6	Diesel	300	0.29
SF - Central - 41	Hydraulic 55 Ton Crane	Crane	802	38	21.1	Diesel	350	0.29
SF - Central - 41	Manitowoc 777 200 Ton Crane Telescope	Crane	715	38	18.8	Diesel	760	0.29
SF - Central - 41	RT Forklift 5500	Forklift	424	38	11.2	Diesel	63	0.2
SF - Central - 41	Truck Crane Lattice Boom 90T	Crane	100	38	2.6	Diesel Tier 4	300	0.29
SF - Central - 42	Air Compressor 375 cfm	Air Compressor	3547	1729	2.1	Diesel Tier 4	122	0.48
SF - Central - 42	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	3547	1729	2.1	Diesel	110	0.36
SF - Central - 42	CAT 825, Roller	Roller	202	1729	0.1	Diesel	315	0.38
SF - Central - 42	CAT 980 H Wheel Loader	Rubber Tired Loader	202	1729	0.1	Diesel	393	0.36
SF - Central - 42	CAT CB-634D Vibratory 84"	Rollers	3694	1729	2.1	Diesel	145	0.38
SF - Central - 42	CAT D8 Dozer	Crawler Tractor	3694	1729	2.1	Diesel	328	0.43
SF - Central - 42	CAT Forklift 5,500 LB	Aerial Lift	400	1729	0.2	Diesel	63	0.31
SF - Central - 42	CAT Grader 16H	Graders	3694	1729	2.1	Diesel	285	0.41
SF - Central - 42	DMM Deep Soil Mixer,	Bore Drill Rig	3547	1729	2.1	Diesel	522	0.5
SF - Central - 42	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	3547	1729	2.1	Diesel	500	0.34
SF - Central - 42	Grove RT Crane 30T	Crane	3547	1729	2.1	Diesel	160	0.29
SF - Central - 42	Hydraulic 40 Ton Crane	Crane	400	1729	0.2	Diesel	300	0.29
SF - Central - 42	Hydraulic 9 Ton Crane	Crane	463	1729	0.3	Diesel	85	0.29
SF - Central - 42	Portable, 90 Kw, Diesel, 158HP	Welders	850	1729	<1	Diesel Tier 4	158	0.45
SF - Central - 43	150 KW Diesel Generator	Generator	100	240	0.4	Diesel Tier 4	183	0.74
SF - Central - 43	Air Compressor 1600 cfm	Air Compressor	639	240	2.7	Diesel Tier 4	540	0.48
SF - Central - 43	250 CFM Compressor Diesel	Air Compressor	146	240	0.6	Diesel Tier 3	75	0.74
SF - Central - 43	CAT CB-634D Vibratory 84"	Rollers	122	240	0.5	Diesel	145	0.38
SF - Central - 43	CAT D8 Dozer	Crawler Tractor	122	240	0.5	Diesel	328	0.43
SF - Central - 43	CAT Forklift 5,500 LB	Aerial Lift	16	240	0.1	Diesel	63	0.31
SF - Central - 43	CAT Grader 16H	Graders	122	240	0.5	Diesel	285	0.41
SF - Central - 43	CAT Hyd Excavator 1CY	Excavator	405.6	240	1.7	Diesel	138	0.38
SF - Central - 43	Water Pump, 6" Diesel	Pumps	400	240	1.7	Diesel	13	0.74
SF - Central - 43	Hydraulic 40 Ton Crane	Crane	106	240	0.4	Diesel	300	0.29
SF - Central - 43	Hydraulic 9 Ton Crane	Crane	554	240	2.3	Diesel	85	0.29
SF - Central - 43	Hydraulic 55 Ton Crane	Crane	1201	240	5.0	Diesel	350	0.29
SF - Central - 43	CAT Hyd Excavator 1CY	Excavator	380	240	1.6	Diesel	138	0.38
SF - Central - 43	Manitowoc 777 200 Ton Crane	Crane	1543	240	6.4	Diesel	760	0.29

SF - Central - 43	Manitowoc 200 Ton Crane	Crane	562	240	2.3	Diesel	760	0.29
SF - Central - 43	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	639	240	3	Diesel	8	0.56
SF - Central - 43	Slurry Wall Techniwell	Pumps	639	240	3	Diesel	500	0.74
SF - Central - 43	CAT 825, Roller	Roller	122	240	0.5	Diesel	315	0.38
SF - Central - 43	CAT 950 H Wheel Loader	Rubber Tired Loaders	1028.6	240	4.3	Diesel or Hybrid	130	0.36
SF - Central - 43	CAT 980 H Wheel Loader	Rubber Tired Loader	122	240	0.5	Diesel	393	0.36
SF - Central - 44	250 CFM Compressor Diesel	Air Compressor	965.9	93	10.4	Diesel Tier 3	75	0.74
SF - Central - 44	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	324.2	93	0.0	Diesel Tier 4	210	0.38
SF - Central - 44	Manitowoc 777 200 Ton Crane	Crane	829	93	8.9	Diesel	760	0.29
SF - Central - 44	Manitowoc 999-275 Ton Crane	Crane	306.1	93	3.3	Diesel	900	0.29
SF - Central - 45	CAT 631G Scraper, Conventional	Scraper	73.4	166	0.4	Diesel	515	0.48
SF - Central - 45	CAT 980 H Wheel Loader	Rubber Tired Loader	1334.6	166	8.0	Diesel	393	0.36
SF - Central - 45	CAT CB-634D Vibratory 84"	Rollers	3033	166	18.3	Diesel	145	0.38
SF - Central - 45	CAT D8 Dozer	Crawler Tractor	4404.3	166	26.5	Diesel	328	0.43
SF - Central - 45	CAT Grader 16H	Graders	36.7	166	0.2	Diesel	285	0.41
SF - Central - 46	Air Compressor 1600 cfm	Air Compressor	639	446	1.4	Diesel Tier 4	540	0.48
SF - Central - 46	250 CFM Compressor Diesel	Air Compressor	146	446	0.3	Diesel Tier 3	75	0.74
SF - Central - 46	CAT CB-634D Vibratory 84"	Rollers	3515.3	446	7.9	Diesel	145	0.38
SF - Central - 46	CAT D8 Dozer	Crawler Tractor	3515.3	446	7.9	Diesel	328	0.43
SF - Central - 46	CAT Forklift 5,500 LB	Aerial Lift	96	446	0.2	Diesel	63	0.31
SF - Central - 46	CAT Grader 16H	Graders	3513.3	446	7.9	Diesel	285	0.41
SF - Central - 46	CAT Hyd Excavator 1CY	Excavator	405.6	446	0.9	Diesel	138	0.38
SF - Central - 46	Water Pump, 6" Diesel	Pumps	400	446	0.9	Diesel	13	0.74
SF - Central - 46	Hydraulic 40 Ton Crane	Crane	384.6	446	0.9	Diesel	300	0.29
SF - Central - 46	Hydraulic 9 Ton Crane	Crane	196	446	0.4	Diesel	85	0.29
SF - Central - 46	Hydraulic 55 Ton Crane	Crane	1201	446	2.7	Diesel	350	0.29
SF - Central - 46	CAT Hyd Excavator 1CY	Excavator	380	446	0.9	Diesel	138	0.38
SF - Central - 46	Manitowoc 777 200 Ton Crane	Crane	1543	446	3.5	Diesel	760	0.29
SF - Central - 46	Manitowoc 200 Ton Crane	Crane	562	446	1.3	Diesel	760	0.29
SF - Central - 46	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	639	446	1	Diesel	8	0.56
SF - Central - 46	Slurry Wall Techniwell	Pumps	639	446	1	Diesel	500	0.74
SF - Central - 46	CAT 950 H Wheel Loader	Rubber Tired Loaders	1028.6	446	2.3	Diesel or Hybrid	130	0.36
SF - Central - 47	Air Compressor 1600 cfm	Air Compressor	160	60	2.7	Diesel Tier 4	540	0.48
SF - Central - 47	250 CFM Compressor Diesel	Air Compressor	965.9	60	16.1	Diesel Tier 3	75	0.74
SF - Central - 47	Hydraulic 40 Ton Crane	Crane	160	60	2.7	Diesel	300	0.29
SF - Central - 47	Manitowoc 777 200 Ton Crane	Crane	829	60	13.8	Diesel	760	0.29
SF - Central - 47	Manitowoc 999-275 Ton Crane	Crane	306.1	60	5.1	Diesel	900	0.29
SF - Central - 47	Telescope RT Forklift 5500	Forklift	160	60	2.7	Diesel	63	0.2
SF - Central - 47	Truck Crane Lattice Boom 90T	Crane	324.2	60	5.4	Diesel Tier 4	300	0.29
SF - Central - 48	250 CFM Compressor Diesel	Air Compressor	23287	1349	17.3	Diesel Tier 3	75	0.74
SF - Central - 48	CAT 988 H Wheel Loader	Rubber Tired Loader	7000	1349	5.2	Diesel	400	0.36
SF - Central - 48	CAT D8 Dozer	Crawler Tractor	7000	1349	5.2	Diesel	328	0.43
SF - Central - 48	CAT Forklift 5,500 LB	Aerial Lift	11370	1349	8.4	Diesel	63	0.31
SF - Central - 48	Hydraulic 40 Ton Crane	Crane	12270	1349	9.1	Diesel	300	0.29
SF - Central - 48	Hydraulic 9 Ton Crane	Crane	11370	1349	8.4	Diesel	85	0.29
SF - Central - 48	Manitowoc 777 200 Ton Crane	Crane	400	1349	0.3	Diesel	760	0.29
SF - Central - 49	Air Compressor 1600 cfm	Air Compressor	100	35	2.9	Diesel Tier 4	540	0.48
SF - Central - 49	Hydraulic 40 Ton Crane	Crane	180	35	5.1	Diesel	300	0.29
SF - Central - 49	Hydraulic 55 Ton Crane	Crane	1115	35	31.9	Diesel	350	0.29
SF - Central - 49	Manitowoc 777 200 Ton Crane	Crane	715	35	20.4	Diesel	760	0.29
SF - Central - 49	Telescope RT Forklift 5500	Forklift	1050	35	30.0	Diesel	63	0.2
SF - Central - 49	Truck Crane Lattice Boom 90T	Crane	100	35	2.9	Diesel Tier 4	300	0.29
SF - Central - 49	CAT Forklift 5,500 LB	Aerial Lift	80	35	2.3	Diesel	63	0.31
SF - Central - 49	Hydraulic 9 Ton Crane	Crane	80	35	2.3	Diesel	85	0.29
SF - Central - 49	400A Diesel Welder, Trailer Mounted	Welders	100	35	2.9	Diesel	22	0.45
SF - Central - 50	Air Compressor 1600 cfm	Air Compressor	400	41	9.8	Diesel Tier 4	540	0.48
SF - Central - 50	Boom Truck, 12.5 Tn Boom	Crane	200	41	4.9	Diesel or Hybrid	100	0.29
SF - Central - 50	Grove RT Crane 80T, 275hp	Crane	400	41	9.8	Diesel	275	0.29
SF - Central - 50	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	200	41	4.9	Diesel	75	0.31
SF - Central - 51	Air Compressor 1600 cfm	Air Compressor	400	43	9.3	Diesel Tier 4	540	0.48
SF - Central - 51	Boom Truck, 12.5 Tn Boom	Crane	200	43	4.7	Diesel or Hybrid	100	0.29
SF - Central - 51	Grove RT Crane 80T, 275hp	Crane	400	43	9.3	Diesel	275	0.29
SF - Central - 51	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	200	43	4.7	Diesel	75	0.31
SF - Central - 52	400A Diesel Welder, Trailer Mounted	Welders	3519.6	2576	1.4	Diesel	22	0.45
SF - Central - 52	Bobcat 5630 Skid Steer Loader	Skid Loader	17598.2	2576	6.8	Diesel	74	0.37
SF - Central - 52	CAT 962 H Wheel Loader	Rubber Tired Loader	35476.4	2576	13.8	Diesel	230	0.36
SF - Central - 52	Portable, 300 Kw, Diesel, 36HP	Welders	35196.3	2576	13.7	Diesel Tier 4	400	0.45
SF - Central - 53	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	101	11	9	Diesel or Hybrid	224	0.42
SF - Central - 53	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	101	11	9	Diesel or Hybrid	137	0.38
SF - Central - 53	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	101	11	9	Diesel or Hybrid	133	0.38
SF - Central - 53	CAT LOADER/HOE 416 E	Rubber Tired Loaders	101	11	9.2	Diesel	78	0.36
SF - Central - 54	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	101	12	8	Diesel or Hybrid	224	0.42
SF - Central - 54	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	101	12	8	Diesel or Hybrid	137	0.38
SF - Central - 54	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	101	12	8	Diesel or Hybrid	133	0.38
SF - Central - 54	CAT LOADER/HOE 416 E	Rubber Tired Loaders	101	12	8.4	Diesel	78	0.36
SF - Central - 55	CAT 12 M	Grader	210	240	0.9	Diesel	173	0.41
SF - Central - 55	CAT 390 MASS EXC	Excavator	200	240	0.8	Diesel	534	0.38
SF - Central - 55	CAT D8Rii, Dozer w winch	Crawler Tractor	2000	240	8.3	Diesel	310	0.43
SF - Central - 55	CAT 631G Scraper, Conventional	Scraper	2000	240	8.3	Diesel	515	0.48
SF - Central - 55	Disk, Towed	Off Highway Tractor	320	240	1.3	Diesel	140	0.44
SF - Central - 55	CAT 966 Gil Wheel Loader	Rubber Tired Loaders	40	240	0.2	Diesel	286	0.36
SF - Central - 55	CAT D9R, Dozer w ripper	Crawler Tractor	1180	240	4.9	Diesel	410	0.43
SF - Central - 55	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	1240	240	5.2	Diesel	80	0.44
SF - Central - 55	Hydro Mulcher, 18 HP	Pumps	120	240	0.5	Diesel	25	0.74
SF - Central - 55	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	1000	240	4.2	Diesel	345	0.38

**Offroad Equipment (Electric) Inventory for Southern Complex on Byron Tract - Central
Option 1**

Electricity for TBM Operations included in the Summary Workbook

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
SF - Central - 1	400A, Electric Welder	8.9	208	15	0.642
SF - Central - 2	400A, Electric Welder	44.4	324	15	2.056
SF - Central - 3	Light Plant, 4 lite, 1000w, Tower/Mast	1864.6 hours	214		
SF - Central - 4	Light Plant, 4 lite, 1000w, Tower/Mast	813.4 hours	208		
SF - Central - 6	400A, Electric Welder	790.9	169	15	70.198
SF - Central - 6	Water Pump, 4" Electrical, Submersible	15820	169	1	93.609
SF - Central - 7	400A, Electric Welder	2924.3	500	15	87.729
SF - Central - 9	400A, Electric Welder	1000	225	15	66.667
SF - Central - 9	Water Pump, 4" Electrical, Submersible	600	225	1	2.667
SF - Central - 10	Water Pump, 4" Electrical, Submersible	48.8	85	1	0.574
SF - Central - 11	400A, Electric Welder	927.1	296	15	46.981
SF - Central - 12	400A, Electric Welder	17828.2	731	15	365.832
SF - Central - 12	Water Pump, 4" Electrical, Submersible	8160.3	731	1	11.163
SF - Central - 12	Light Plant, 4 lite, 1000w, Tower/Mast	160 hours	731		
SF - Central - 13	400A, Electric Welder	4717.4	876	15	80.777
SF - Central - 13	Water Pump, 4" Electrical, Submersible	4028.6	876	1	4.599
SF - Central - 14	Water Pump, 4" Electrical, Submersible	6311.2	683	1	9.240
SF - Central - 15B	400A, Electric Welder	80	366	15	3.279
SF - Central - 15B	Water Pump, 4" Electrical, Submersible	3589.3	366	1	9.807
SF - Central - 16	400A, Electric Welder	1146.7	163	15	105.525
SF - Central - 16	Water Pump, 4" Electrical, Submersible	602.2	163	1	3.694
SF - Central - 17	400A, Electric Welder	1283.3	34	15	566.162
SF - Central - 17	Water Pump, 4" Electrical, Submersible	161.9	34	1	4.762
SF - Central - 18	400A, Electric Welder	0.2	31	15	0.097
SF - Central - 18	Water Pump, 4" Electrical, Submersible	88.3	31	1	2.848
SF - Central - 19	400A, Electric Welder	2290	354	15	97.034
SF - Central - 19	Water Pump, 4" Electrical, Submersible	1615.9	354	1	4.565
SF - Central - 20	400A, Electric Welder	2209.8	754	15	43.962
SF - Central - 20	Water Pump, 4" Electrical, Submersible	4419.5	754	1	5.861
SF - Central - 21	400A, Electric Welder	3333.3	984	15	50.813
SF - Central - 23	400A, Electric Welder	120.5	202	15	8.948
SF - Central - 26	Water Pump, 4" Electrical, Submersible	20738.5	1355	1	15.305
SF - Central - 26	Light Plant, 4 lite, 1000w, Tower/Mast	124751 hours	1355		
SF - Central - 29	Water Pump, 6" Electrical, Submersible	535.4	275	1	1.947
SF - Central - 29	Light Plant, 4 lite, 1000w, Tower/Mast	67 hours	275		
SF - Central - 30	Water Pump, 4" Electrical, Submersible	1173	185	1	6.341
SF - Central - 30	Water Pump, 6" Electrical, Submersible	38	185	1	0.205
SF - Central - 30	Light Plant, 4 lite, 1000w, Tower/Mast	1077.7 hours	185		
SF - Central - 31	400A, Electric Welder	350	646	15	8.127
SF - Central - 31	Water Pump, 4" Electrical, Submersible	21569.1	646	1	33.389
SF - Central - 31	Water Pump, 6" Electrical, Submersible	506.6	646	1	0.784
SF - Central - 32	400A, Electric Welder	500	137	15	54.745
SF - Central - 33	Water Pump, 4" Electrical, Submersible	5680	263	1	21.597
SF - Central - 35	Gantry Crane	500	90	0.25	1
SF - Central - 35	150 kW Generator	100 hours	90		
SF - Central - 36	Axial Fan 114,000 CFM	18465	343	50	2,692
SF - Central - 36	Gantry Crane	9170	343	0.25	7
SF - Central - 38	Water Pump, 4" Electrical, Submersible	2133	952	1	2.241
SF - Central - 38	150 kW Generator	100 hours	952		

SF - Central - 39	Gantry Crane	500	277	0.25	0
SF - Central - 39	Concrete Pump Truck, 117 cy/hr	368 hours	277		
SF - Central - 40	Axial Fan 114,000 CFM	18491	418	50	2,212
SF - Central - 40	Gantry Crane	9181	418	0.25	5
SF - Central - 41	Gantry Crane	237	38	0.25	2
SF - Central - 42	Water Pump, 4" Electrical, Submersible	3547	1729	1	2.051
SF - Central - 43	150 kW Generator	100 hours	240		
SF - Central - 43	Water Pump, 4" Electrical, Submersible	3547	240	1	14.779
SF - Central - 43	Concrete Pump Truck, 117 cy/hr	1628 hours	240		
SF - Central - 48	Axial Fan 114,000 CFM	159390	1349	50	5,908
SF - Central - 48	Gantry Crane	47776	1349	0.25	9
SF - Central -46	Concrete Pump Truck, 117 cy/hr	1364 hours	446		
SF - Central - 49	Gantry Crane	550	35	0.25	4
SF - Central - 50	400A, Electric Welder	400	41	15	146.341
SF - Central - 51	400A, Electric Welder	400	43	15	139.535
SF - Central - 52	Concrete Pump Truk, 117 cy/hr	8632.6 hours	2576		

Vehicle Inventory for Southern Complex on Byron Tract - Central

Option 1

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs.)	# day	Vehicle Hours	Hours/Trip	# of Vehicles/trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/hr)
Vehicle Use on Paved Roads --- and Not on Construction Site												
SF - Central - 1	Pickup, 1/2T 2 WD	Materials from Stockton	208	3208.9	1.1	3008	14.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 1	Pickup, 3/4T, 4wd	Materials from Stockton	208	3200.0	1.1	3000	14.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 1	Truck Flatbed 4 T Highway	Materials from Stockton	208	799.7	1.1	750	3.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 1	Truck Flatbed 4 T Highway	Two Cranes and one lift from Stockton	1	3.2	1.1	3	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 2	Pickup, 1/2T 2 WD	Materials from Stockton	324	16044.4	1.1	15042	46.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 2	Pickup, 3/4T, 4wd	Materials from Stockton	324	16000.0	1.1	15000	46.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 2	Truck Flatbed 4 T Highway	Materials from Stockton	324	4000.3	1.1	3750	11.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 3	Pickup, 1/2T 2 WD	Materials from Stockton	214	2480.0	1.1	2325	10.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 3	Pickup, 3/4T, 4wd	Materials from Stockton	214	620.2	1.1	581	2.7	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 3	Truck End Dump/ 10-13cy Hwy	Materials from Stockton	214	378.7	1.1	355	1.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 3	Truck Flatbed 4 T Highway	Cone, Two Rollers, two Loaders, Tractor, Grader, and Excavator	1	8.5	1.1	8	8.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 4	Pickup, 1/2T 2 WD	Materials from Stockton	208	1761.3	1.1	1651	7.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 4	Pickup, 3/4T, 4wd	Materials from Stockton	208	545.3	1.1	511	2.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 4	Truck End Dump/ 10-13cy Hwy	Materials from Stockton	208	407.3	1.1	382	1.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 4	Truck Flatbed 4 T Highway	Materials from Stockton	208	1424.2	1.1	1335	6.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 4	Truck, Flatbed, 10T, Hwy	Materials from Stockton	208	10.4	1.1	29	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 4	Truck Flatbed 4 T Highway	Materials from Stockton	208	2511.2	1.1	2373	11.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 4	Truck End Dump/ 16-20cy Hwy	Base Rock and Gravel from Vernalis	208	968.8	0.7	1384	7	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Central - 4	Truck Flatbed 4 T Highway	One Roller and one Crane from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 4	Truck Flatbed 4 T Highway	Asphalt Paver and 2 Rollers from and to Stockton	2	6.4	1.1	6	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 5	Pickup, 1/2T 2 WD	Materials from Stockton	21	160.0	1.1	150	7.1	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 5	Pickup, 3/4T, 4wd	Materials from Stockton	21	104.1	1.1	98	4.6	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 5	Truck End Dump/ 10-13cy Hwy	Materials from Stockton	21	120.0	1.1	300	14.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 5	Truck Flatbed 4 T Highway	Materials from Stockton	21	1261.9	1.1	1183	56.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 5	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	21	6.2	0.6	11	0.5	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel	
SF - Central - 5	Truck End Dump/ 16-20cy Hwy	Base Rock, Gravel, and Flyash from Vernalis	21	4202.0	0.7	6003	286	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Central - 5	Truck End Dump/ 10-13cy Hwy	Cement, Aggregate, and Sand from Stockton	21	279.9	1.1	262	12.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 5	Truck End Dump/ 21cy 30T	Asphalt, Hot Mix Delivered from Vernalis	21	153	0.7	219	10.4	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel Tier 4	
SF - Central - 5	Truck Flatbed 4 T Highway	Two Loaders and Tractor from Stockton	1	3.2	1.1	3	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 6	Mechanics Truck	Materials from Stockton	169	15820.0	1.1	14831	88	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 6	Pickup, 1/2T 2 WD	Materials from Stockton	169	16610.9	1.1	15573	92.1	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 6	Truck Flatbed 4 T Highway	Materials from Stockton	169	15820.0	1.1	14831	87.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 6	Truck Flatbed 4 T Highway	Materials from Stockton	169	115.2	1.1	108	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 6	Truck Flatbed 4 T Highway	One Loader from Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 7	Pickup, 1/2T 2 WD	Materials from Stockton	500	38004.3	1.1	35629	71.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 7	Truck End Dump/ 10-13cy Hwy	Materials from Stockton	500	200.0	1.1	188	0.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 7	Truck Flatbed 4 T Highway	Materials from Stockton	500	15600.0	1.1	14625	29.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 7	Truck Flatbed 4 T Highway	Materials from Stockton	500	385.1	1.1	361	0.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 7	Truck End Dump/ 16-20cy Hwy	Base Rock from Vernalis	500	7771.4	0.7	1102	22	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Central - 8	Truck Flatbed 4 T Highway	Materials from Stockton	1321	10400.0	1.1	1369	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 8	Truck Flatbed 10 T Highway	Materials from Stockton	1321	7164.2	1.1	1369	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 8	Truck End Dump/ 16-20cy Hwy	Base Rock, Gravel, and Flyash from Vernalis	1321	10095.4	0.7	14422	11	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Central - 8	Truck Flatbed 4 T Highway	Two Cranes from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 9	Pickup, 1/2T 2 WD	Materials from Stockton	225	1598.3	1.1	1498	6.7	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 9	Pickup, 3/4T, 4wd	Materials from Stockton	225	83.3	1.1	78	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 9	Truck End Dump/ 10-13cy Hwy	Materials from Stockton	225	133.3	1.1	125	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 9	Truck Flatbed 4 T Highway	Materials from Stockton	225	266.7	1.1	250	1.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 9	Truck, Tractor, 75000#, 6 x 4	Materials from Stockton	225	40.0	1.1	38	0.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 9	Truck Flatbed 4 T Highway	Materials from Stockton	225	1043.2	1.1	978	4.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 9	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	225	132.1	0.6	586	2.6	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel	
SF - Central - 9	Truck End Dump/ 16-20cy Hwy	Gravel and Flyash from Vernalis	225	1857.8	0.7	2654	12	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Central - 9	Truck End Dump/ 10-13cy Hwy	Cement, Aggregate, and Sand from Stockton	225	252.8	1.1	237	1.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 9	Truck Flatbed 4 T Highway	Loader and Crane from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 10	Truck, Flatbed, 10T, Hwy	Materials from Stockton	85	81.3	1.1	76	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 10	Pickup, 3/4T, 4wd	Materials from Stockton	85	74.2	1.1	70	0.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 10	Truck Flatbed 4 T Highway	Materials from Stockton	85	50.1	1.1	47	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 10	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	85	22.7	0.6	40	0.5	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel	
SF - Central - 10	Truck End Dump/ 16-20cy Hwy	Flyash from Vernalis	85	55.3	0.7	79	1	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Central - 10	Truck End Dump/ 10-13cy Hwy	Cement, Aggregate, and Sand from Stockton	85	2533.0	1.1	2375	27.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 11	Mechanics Truck	Materials from Stockton	296	8562.9	1.1	8028	27	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 11	Pickup, 1/2T 2 WD	Materials from Stockton	296	8236.7	1.1	7816	26.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 11	Pickup, 3/4T, 4wd	Materials from Stockton	296	208.8	1.1	196	0.7	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 11	Truck Flatbed 4 T Highway	Materials from Stockton	296	8562.9	1.1	8028	27.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 11	Truck Flatbed 4 T Highway	Materials from Stockton	296	146.1	1.1	137	0.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 11	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	296	46.5	0.6	82	0.3	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel	
SF - Central - 11	Truck End Dump/ 16-20cy Hwy	Flyash from Vernalis	296	26.9	0.7	38	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Central - 11	Truck End Dump/ 10-13cy Hwy	Cement, Aggregate, and Sand from Stockton	296	1230.5	1.1	1154	3.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 9	Truck, Tractor, 75000#, 6 x 4	Materials from Stockton	731	9215.5	1.1	8640	11.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 12	Pickup, 1/2T 2 WD	Materials from Stockton	731	11202.4	1.1	10502	14.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 12	Truck Flatbed 4 T Highway	Cone, Two Excavators, and Tractor from Stockton	1	4.3	1.1	4	4.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 13	Pickup, 1/2T 2 WD	Materials from Stockton	876	5162.5	1.1	4840	5.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 13	Pickup, 3/4T, 4wd	Materials from Stockton	876	34.2	1.1	32	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 13	Truck Flatbed 4 T Highway	Materials from Stockton	876	2924.8	1.1	2742	3.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 13	Truck, Tractor, 75000#, 6 x 4	Materials from Stockton	876	1700.2	1.1	1594	1.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	

SF - Central - 13	Truck Flatbed 4 T Highway	Cane from Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 14	Pickup 1/2T 2 WD	Materials from Stockton	683	2395.3	1.1	2246	3.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 14	Truck Flatbed 4 T Highway	Materials from Stockton	683	1562.7	1.1	1465	2.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 14	Truck' End Dump' 10-13cy' Hwy	Cement, Aggregate, and Sand from Stockton	683	492.7	1.1	462	0.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 14	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	683	4.0	0.6	7	0.0	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 14	Truck' End Dump' 16-20cy' Hwy	Flyash from Vernalis	683	10.8	0.7	15	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 15A	Truck, Tractor, 75000#, 6 x 4	Materials from Stockton	241	1700.2	1.1	1594	6.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 15B	Pickup 1/2T 2 WD	Materials from Stockton	366	340.9	1.1	320	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 15B	Pickup, 3/4T, 4wd	Materials from Stockton	366	396.4	1.1	372	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 15B	Truck Flatbed 4 T Highway	Materials from Stockton	366	616.4	1.1	578	1.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 15B	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	366	202.7	1.1	190	1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 15B	Truck' End Dump' 10-13cy' Hwy	Cement, Aggregate, and Sand from Stockton	366	1230.4	1.1	1154	3.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 15B	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	366	46.5	0.6	82	0.2	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 15B	Truck' End Dump' 16-20cy' Hwy	Flyash from Vernalis	366	26.9	0.7	38	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 15B	Truck Flatbed 4 T Highway	Loader from Stockton	366	1.1	1.1	1	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 16	Pickup 1/2T 2 WD	Materials from Stockton	163	1146.7	1.1	1075	6.6	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 16	Pickup, 3/4T, 4wd	Materials from Stockton	163	284.6	1.1	267	1.6	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 16	Truck' End Dump' 16-20cy' Hwy	Flyash from Vernalis	163	22.0	0.7	31	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 17	Pickup 1/2T 2 WD	Materials from Stockton	34	1283.3	1.1	1203	35.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 17	Pickup, 3/4T, 4wd	Materials from Stockton	34	11.3	1.1	11	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 18	Pickup 1/2T 2 WD	Materials from Stockton	31	0.2	1.1	0	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 18	Pickup, 3/4T, 4wd	Materials from Stockton	31	25.2	1.1	24	0.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 18	Truck' End Dump' 10-13cy' Hwy	Cement, Aggregate, and Sand from Stockton	31	492.7	1.1	462	14.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 18	Truck' End Dump' 16-20cy' Hwy	Flyash from Vernalis	31	10.8	0.7	15	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 18	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	31	4.1	0.6	7	0.2	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 19	Pickup 1/2T 2 WD	Materials from Stockton	354	3641.2	1.1	3414	9.6	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 19	Pickup, 3/4T, 4wd	Materials from Stockton	354	530.4	1.1	497	1.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 19	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	354	180.3	1.1	169	0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 19	Truck' End Dump' 10-13cy' Hwy	Materials from Stockton	354	195.3	1.1	9066	25.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 19	Truck Flatbed 4 T Highway	Materials from Stockton	354	330.0	1.1	309	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 19	Truck Flatbed 10 T Highway	Materials from Stockton	354	999.9	1.1	1369	3.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 19	Truck, Tractor, 75000#, 6 x 4	Materials from Stockton	354	120.2	1.1	113	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 19	Truck Flatbed 4 T Highway	Materials from Stockton	354	108.8	1.1	102	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 19	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	354	51.0	0.6	90	0.3	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 19	Truck' End Dump' 16-20cy' Hwy	Flyash from Vernalis	354	41.4	0.7	59	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 19	Truck' End Dump' 10-13cy' Hwy	Cement, Aggregate, and Sand from Stockton	354	1894.5	1.1	1776	5.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 20	Truck Flatbed 10 T Highway	Materials from Stockton	754	1941.6	1.1	1369	1.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 20	Truck, Tractor, 75000#, 6 x 4	Materials from Stockton	754	740.0	1.1	694	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 20	Truck' End Dump' 16-20cy' Hwy	Flyash from Vernalis	754	30.5	0.7	44	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 20	Truck' End Dump' 10-13cy' Hwy	Cement, Aggregate, and Sand from Stockton	754	1393.9	1.1	1307	1.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 21	Pickup 1/2T 2 WD	Materials from Stockton	984	3333.3	1.1	3125	3.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 22	Pickup 1/2T 2 WD	Materials from Stockton	246	2200.0	1.1	2063	8.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 22	Truck Flatbed 4 T Highway	Materials from Stockton	246	2100.0	1.1	1969	8.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 22	Truck Flatbed 10 T Highway	Materials from Stockton	246	100.0	1.1	1369	5.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 22	Truck, Tractor, 75000#, 6 x 4	Materials from Stockton	246	250.0	1.1	234	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 22	Truck' End Dump' 16-20cy' Hwy	Flyash from Vernalis	246	18.3	0.7	26	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 22	Truck' End Dump' 10-13cy' Hwy	Cement, Aggregate, and Sand from Stockton	246	837.1	1.1	785	3.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 22	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	246	5.1	0.6	9	0.0	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 23	Pickup 1/2T 2 WD	Materials from Stockton	202	14561.4	1.1	13651	67.6	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 23	Pickup, 3/4T, 4wd	Materials from Stockton	202	208.8	1.1	196	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 23	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	202	17421.1	1.1	11832	59	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 23	Truck' End Dump' 10-13cy' Hwy	Materials from Stockton	202	302.4	1.1	9066	44.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 23	Truck, Flatbed, 10T, Hwy	Materials from Stockton	202	39.6	1.1	37	0.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 23	Truck' End Dump' 16-20cy' Hwy	Base Rock from Vernalis	202	1579.2	0.7	2256	11	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 23	Truck Flatbed 4 T Highway	Cone, Grader, and Excavator to Stockton	1	3.2	1.1	3	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 24	Truck' End Dump' 10-13cy' Hwy	Materials from Stockton	181	1600.0	1.1	9066	50.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 24	Truck' End Dump' 10-13cy' Hwy	Base Rock from Vernalis	181	583.8	0.7	834	4.6	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 24	Truck, Flatbed, 10T, Hwy	Materials from Stockton	181	60.8	1.1	57	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 25	Pickup 1/2T 2 WD	Materials from Stockton	445	21303.1	1.1	19972	44.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 25	Pickup, 3/4T, 4wd	Materials from Stockton	445	279.7	1.1	262	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 26	Pickup 1/2T 2 WD	Materials from Stockton	1355	28604.8	1.1	26817	19.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 26	Truck Flatbed 4 T Highway	Materials from Stockton	1355	20738.5	1.1	19442	14.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 26	Truck, Flatbed, 10T, Hwy	Materials from Stockton	1355	165.3	1.1	155	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 27	Pickup 1/2T 2 WD	Materials from Stockton	1748	8574.4	1.1	8039	4.6	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 27	Truck' End Dump' 16-20cy' Hwy	Base Rock from Vernalis	1748	650.3	0.7	929	1	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 28	Truck, Flatbed, 10T, Hwy	Materials from Stockton	2191	8301.9	1.1	7783	3.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 28	Truck, Flatbed, 4T, Hwy	Materials from Stockton	2191	13070.0	1.1	12253	5.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 29	Pickup 1/2T 2 WD	Materials from Stockton	275	3458.6	1.1	3242	11.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 29	Pickup, 3/4T, 4wd	Materials from Stockton	275	2093.1	1.1	1962	7.1	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 29	Truck, 400hp & End Dump To, 28cy, 36T	Materials from Stockton	275	3407.4	1.1	3194	11.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 29	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	275	8787.6	1.1	8238	30	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 29	Truck, Flatbed, 10T, Hwy	Materials from Stockton	275	4154.4	1.1	3895	14.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 29	Truck, Flatbed, 4T, Hwy	Materials from Stockton	275	167.0	1.1	157	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 29	Truck, Flatbed, 10T, Hwy	Materials from Stockton	275	2302.9	1.1	2159	7.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 29	Truck' End Dump' 10-13cy' Hwy	Base Rock, Cement, Aggregate, and Sand from Stockton	275	14392.5	1.1	13493	49.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel

SF - Central - 30	Mechanics Truck	Materials from Stockton	185	1306.7	1.1	1225	7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 30	Pickup, 3/4T, 2 WD	Materials from Stockton	185	1186.9	1.1	1113	6.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 30	Pickup, 3/4T, 4wd	Materials from Stockton	185	121.9	1.1	161	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 30	Truck, Flatbed, 10T, Hwy	Materials from Stockton	185	246.7	1.1	231	1.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 30	Truck Flatbed 4 T Highway	Materials from Stockton	185	1306.7	1.1	1225	6.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 30	Truck' End Dump' 10-13cy Hwy	Gravel and Base Rock from Vernalis	185	996.3	1.1	934	5.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 30	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Livemore	185	29.5	0.6	52	0.3	Southern Complex on Byron Tract to/from Livemore	17	34	Diesel
SF - Central - 30	Truck, Flatbed, 10T, Hwy	Materials from Stockton	185	236.3	0.6	417	2.3	Southern Complex on Byron Tract to/from Stockton	17	34	Diesel
SF - Central - 31	Truck, Tractor, 75000#, 6 x 4	Materials from Stockton	646	401.9	1.1	377	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 31	Pickup, 1/2T 2 WD	Materials from Stockton	646	799.4	1.1	749	1.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 31	Pickup, 3/4T, 4wd	Materials from Stockton	646	33.3	1.1	31	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 31	Truck Flatbed 4 T Highway	Materials from Stockton	646	7904.1	1.1	7410	11.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 31	Truck, Flatbed, 10T, Hwy	Materials from Stockton	646	541.9	1.1	508	0.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 31	Truck, Flatbed, 10T, Hwy	Materials from Stockton	646	77.9	1.1	73	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 31	Truck, Flatbed, 10T, Hwy	Rebar from Livemore	646	123.0	0.6	217	0.3	Southern Complex on Byron Tract to/from Livemore	17	34	Diesel
SF - Central - 31	Truck Flatbed 4 T Highway	Loader from and to Stockton	2	2.1	1.1	2	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 32	Truck Flatbed 4 T Highway	Materials from Stockton	137	734.0	1.1	688	5.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 32	Truck, Tractor, 75000#, 6 x 4	Materials from Stockton	137	222.2	1.1	208	1.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 32	Truck Flatbed 4 T Highway	Materials from Stockton	137	227.2	1.1	213	1.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 32	Truck Flatbed 4 T Highway	Crane and Forklift from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 32	Truck Flatbed 4 T Highway	Crane to Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 33	Mechanics Truck	Materials from Stockton	263	5680.0	1.1	5325	20	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 33	Pickup, 1/2T 2 WD	Materials from Stockton	263	5680.0	1.1	5325	20.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 33	Truck Flatbed 4 T Highway	Materials from Stockton	263	5680.0	1.1	5325	20.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 34	Truck, Flatbed, 10T, Hwy	Materials from Stockton	771	16.0	1.1	15	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 34	Truck' End Dump' 10-20cy Hwy	Materials from Stockton	771	3090.0	1.1	2897	3.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 34	Truck' End Dump' 10-20cy Hwy	Materials from Stockton	771	590.9	1.1	554	0.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 34	Truck' End Dump' 10-13cy Hwy	Cement, Aggregate, and Sand from Stockton	771	6577.9	1.1	6167	8.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 34	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Livemore	771	250.5	0.6	442	0.6	Southern Complex on Byron Tract to/from Livemore	17	34	Diesel
SF - Central - 34	Truck' End Dump' 10-20cy Hwy	Gravel and Flyash from Vernalis	771	1086.4	0.7	1552	2.0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 34	Truck Flatbed 4 T Highway	Roller to Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 35	Truck & Bottom Dump, 24cy, 30T	Dumper	90	2179.5	1.1	2043	22.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 35	Truck' End Dump' 10-20cy Hwy	Materials from Stockton	90	844.8	1.1	792	8.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 35	Truck' End Dump' 10-13cy Hwy	Cement, Aggregate, and Sand from Stockton	90	1852.1	1.1	1736	19.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 35	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Livemore	90	95.8	0.6	169	0.9	Southern Complex on Byron Tract to/from Livemore	17	34	Diesel
SF - Central - 35	Truck' End Dump' 10-20cy Hwy	Flyash from Vernalis	90	40.5	0.7	58	0.6	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 35	Truck Flatbed 4 T Highway	Crane to Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 36	Tunnel Utility Truck	Highway Truck	343	5103.9	1.1	4785	14.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 36	Truck, Flatbed, 10T, Hwy	Materials from Stockton	343	2590.0	1.1	2428	7.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 36	Truck Flatbed 4 T Highway	Materials from Stockton	343	28465.7	1.1	26687	77.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 36	Truck' End Dump' 10-20cy Hwy	Materials from Stockton	343	154.7	1.1	145	0.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 37	Tunnel Utility Truck	Highway Truck	36	174	1.1	163	4.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 37	Truck' End Dump' 10-20cy Hwy	Materials from Stockton	36	77.9	1.1	73	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 37	Truck' End Dump' 10-13cy Hwy	Cement, Aggregate, and Sand from Stockton	36	109.8	1.1	103	2.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 37	Truck, Flatbed, 10T, Hwy	Rebar from Livemore	36	4.0	0.6	7	0.2	Southern Complex on Byron Tract to/from Livemore	17	34	Diesel
SF - Central - 37	Truck' End Dump' 10-20cy Hwy	Flyash from Vernalis	36	2.5	0.7	4	0.1	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 37	Truck Flatbed 4 T Highway	Dozer and Loader to Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 38	Mechanics Truck	Materials from Stockton	952	2133.0	1.1	2000	2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 38	Truck' End Dump' 10-20cy Hwy	Materials from Stockton	952	3090.0	1.1	2897	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 38	Pickup, 3/4T, 4wd	Materials from Stockton	952	2133.0	1.1	2000	2.1	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 38	Truck, Flatbed, 10T, Hwy	Materials from Stockton	952	16.0	1.1	15	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 38	Truck, Flatbed, 4T, Hwy	Materials from Stockton	952	2133.0	1.1	2000	2.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 39	Truck' End Dump' 10-20cy Hwy	Materials from Stockton	277	2185.5	1.1	2049	7.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 39	Truck' End Dump' 10-20cy Hwy	Materials from Stockton	277	444.8	1.1	417	1.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 39	Truck' End Dump' 10-13cy Hwy	Cement, Aggregate, and Sand from Stockton	277	485.3	1.1	455	1.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 39	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Livemore	277	29.5	0.6	52	0.2	Southern Complex on Byron Tract to/from Livemore	17	34	Diesel
SF - Central - 39	Truck' End Dump' 10-20cy Hwy	Base Rock, Gravel, and Flyash from Vernalis	277	664.4	0.7	949	3.4	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 39	Truck Flatbed 4 T Highway	Excavator and Loader from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 40	Tunnel Utility Truck	Highway Truck	418	10210.6	1.1	9572	32.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 40	Truck, Flatbed, 10T, Hwy	Materials from Stockton	418	2504.0	1.1	2348	5.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 41	Tunnel Utility Truck	Highway Truck	38	174	1.1	163	4.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 41	Pickup, 1/2T 2 WD	Materials from Stockton	38	4531.4	1.1	4248	111.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 41	Pickup, 3/4T, 4wd	Materials from Stockton	38	242.0	1.1	227	6.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 41	Truck' End Dump' 10-13cy Hwy	Cement, Aggregate, and Sand from Stockton	38	656.9	1.1	616	16.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 41	Truck, Flatbed, 10T, Hwy	Rebar from Livemore	38	21.5	0.6	38	1.0	Southern Complex on Byron Tract to/from Livemore	17	34	Diesel
SF - Central - 41	Truck' End Dump' 10-20cy Hwy	Gravel and Flyash from Vernalis	38	456.8	0.7	653	17.2	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 41	Truck Flatbed 4 T Highway	Crane and Tractor to Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 42	Mechanics Truck	Materials from Stockton	1729	3547.0	1.1	3325	2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 42	Pickup, 1/2T 2 WD	Materials from Stockton	1729	3547.0	1.1	3325	1.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 42	Truck, Flatbed, 10T, Hwy	Materials from Stockton	1729	400.0	1.1	375	0.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 42	Truck Flatbed 4 T Highway	Materials from Stockton	1729	3547.0	1.1	3325	1.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 42	Truck & Bottom Dump' 21cy 30T	Materials from Stockton	1729	3492.0	1.1	3274	2	Bethune P#1 to/from Stockton	32	64	Diesel Tier 4
SF - Central - 42	Truck' End Dump' 10-20cy Hwy	Materials from Stockton	1729	217.2	1.1	213	0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 42	Truck Flatbed 4 T Highway	Loader and Three Cranes to Stockton	1	4.3	1.1	4	4.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 43	Pickup, 1/2T 2 WD	Materials from Stockton	240	3547.0	1.1	3325	13.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline

SF - Central - 43	Truck, Flatbed, 10T, Hwy	Materials from Stockton	240	16.0	1.1	15	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 43	Truck, 400hp & End Dump Tr, 28cy, 36T	Materials from Stockton	240	3492.0	1.1	3274	13.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 43	Truck' End Dump' 16-20cy' Hwy	Gravel, Ballast, and Sub-ballast from Vernalis	240	11739.0	0.7	16770	69.9	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 43	Truck Flatbed 4 T Highway	Two Excavators, two Loaders, Roller, Dozer, and Scraper to Stockton	1	7.5	1.1	7	7.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 43	Truck Flatbed 4 T Highway	Excavator from and to Stockton	2	2.1	1.1	2	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 44	Truck, Flatbed, 10T, Hwy	Materials from Stockton	93	1518.0	1.1	1423	15.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 44	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	93	1473.1	1.1	1381	14.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 44	Truck' End Dump' 10-13cy' Hwy	Cement, Aggregate, and Sand from Stockton	93	7426.7	1.1	6963	74.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 44	Truck' End Dump' 16-20cy' Hwy	Flyash from Vernalis	93	162.3	0.7	232	2.5	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 44	Truck Flatbed 4 T Highway	Crane to Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 45	Truck, Flatbed, 10T, Hwy	Materials from Stockton	166	4367.6	1.1	4095	24.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 45	Truck Flatbed 4 T Highway	Two Loaders, Grader, Dozer, Skid Loader, and Roller to Stockton	1	6.4	1.1	6	6.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 46	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	446	3513.0	1.1	3293	7.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 46	Truck, Flatbed, 10T, Hwy	Materials from Stockton	446	102.0	1.1	96	0.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 46	Truck Flatbed 4 T Highway	Two Ceres and a Forklift to Stockton	1	3.2	1.1	3	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 47	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	60	213.3	1.1	200	3.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 47	Truck Flatbed 4 T Highway	Excavator, Tractor, Grader, Scraper, Loader, and two Dozers to Stockton	1	7.5	1.1	7	7.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 48	Truck, Flatbed, 10T, Hwy	Materials from Stockton	1349	96900.0	1.1	90844	67.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 48	Truck Flatbed 4 T Highway	LRT, two Rollers, Paver, Excavator, and Loader to Stockton	1	6.4	1.1	6	6.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 49	Tunnel Utility Truck	Highway Truck	35	800	1.1	750	21.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 49	Truck' End Dump' 10-13cy' Hwy	Cement, Aggregate, and Sand from Stockton	35	656.9	1.1	616	17.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 49	Truck, Flatbed, 10T, Hwy	Rubar from Livermore	35	80.0	0.6	38	1.1	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 49	Truck' End Dump' 16-20cy' Hwy	Gravel and Flyash from Vernalis	35	456.8	0.7	653	18.6	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 49	Truck Flatbed 4 T Highway	Crane and Tractor to Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 50	Pickup 1/2T 2 WD	Materials from Stockton	41	400.0	1.1	375	9.1	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 51	Pickup 1/2T 2 WD	Materials from Stockton	43	400.0	1.1	375	8.7	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 52	Pickup 1/2T 2 WD	Materials from Stockton	2576	17598.2	1.1	16498	6.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 55	Pickup 1/2T 2 WD	Materials from Stockton	240	200.0	1.1	188	0.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 55	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	240	4000.0	1.1	3750	16	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 55	Truck, Flatbed, 10T, Hwy	Materials from Stockton	240	113.3	0.6	200	0.8	Southern Complex on Byron Tract to/from Stockton	17	34	Diesel

Vehicle Use on Unpaved/Dirt Surface (no access roads at park and (Mile 100) — on the Construction Site										Miles On-Site	
SF - Central - 3	CAT 770, Articulated End dump	Dumper	214	233.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1166	Diesel or Hybrid
SF - Central - 3	Articulated Rear Dump 22 CY/CAT 730	Dumper	214	2181.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		10907	Diesel or Hybrid
SF - Central - 3	Truck & Bottom Dump, 24cy, 30T	Dumper	214	2408.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		12045	Diesel
SF - Central - 4	CAT 770, Articulated End dump	Dumper	208	101.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		509	Diesel or Hybrid
SF - Central - 4	Articulated Rear Dump 22 CY/CAT 735	Dumper	208	1069.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		5347	Diesel or Hybrid
SF - Central - 5	Cat 770, 511HP	Dumper	21		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		0	Diesel or Hybrid
SF - Central - 5	Articulated Rear Dump 22 CY/CAT 730	Dumper	21		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		0	Diesel or Hybrid
SF - Central - 5	Articulated Rear Dump 22 CY/CAT 735	Dumper	21		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		0	Diesel or Hybrid
SF - Central - 5	Trailer, Flatbed, 40T	Off-Highway Truck	21		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		0	Diesel
SF - Central - 5	Truck & Bottom Dump, 24cy, 30T	Dumper	21		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		0	Diesel
SF - Central - 5	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	21		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		0	Diesel
SF - Central - 9	Articulated Rear Dump 22 CY/CAT 730	Dumper	225	166.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		834	Diesel or Hybrid
SF - Central - 9	Trailer, Lowboy, 50T	Off-Highway Truck	225	40.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		200	Diesel
SF - Central - 9	CAT735, 35T, Articulated End Dump	Dumper	225	75	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		375	Diesel or Hybrid
SF - Central - 9	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	225		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		0	Diesel
SF - Central - 10	CAT735, 35T, Articulated End Dump	Dumper	85	75	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		375	Diesel or Hybrid
SF - Central - 10	Cat 770, 511HP	Dumper	85	74.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		0	Diesel or Hybrid
SF - Central - 10	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	85		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		0	Diesel
SF - Central - 11	Articulated Rear Dump 22 CY/CAT 730	Dumper	32882	34251.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		171259	Diesel or Hybrid
SF - Central - 11	CAT 770 Dump	Dumper	200	209	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1044	Diesel or Hybrid
SF - Central - 11	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	296		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		0	Diesel
SF - Central - 12	Trailer, Lowboy, 50T	Off-Highway Truck	731	9215.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		46078	Diesel
SF - Central - 12	CAT 740 40T, Articulated End dump	Dumper	731	2642.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		13215	Diesel or Hybrid
SF - Central - 12	Tremie Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	731		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		0	Diesel
SF - Central - 13	Trailer, Lowboy, 50T	Off-Highway Truck	876	1700.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		8501	Diesel
SF - Central - 13	CAT 770 Dump	Dumper	876	34	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		171	Diesel or Hybrid
SF - Central - 13	Articulated Rear Dump 22 CY/CAT 730	Dumper	876	7795.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		38978	Diesel or Hybrid
SF - Central - 13	CAT 740 40T, Articulated End dump	Dumper	876	245.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1227	Diesel or Hybrid
SF - Central - 13	Articulated Rear Dump 22 CY/CAT 735	Dumper	876	1027.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		5136	Diesel or Hybrid
SF - Central - 13	CAT773, 53 7T, End Dump	Dumper	876	1586.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		7931	Diesel or Hybrid
SF - Central - 13	Tremie Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	876		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		0	Diesel

SF - Central - 14	CAT 740 40T, Articulated End Dump	Dumper	683	2486.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	12432	Diesel or Hybrid
SF - Central - 14	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	683		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 15A	Articulated Rear Dump 22 CY/CAT 730	Dumper	241		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
SF - Central - 15A	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	241		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 15B	Articulated Rear Dump 22 CY/CAT 730	Dumper	366	616.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3083	Diesel or Hybrid
SF - Central - 15B	Articulated Rear Dump 22 CY/CAT 735	Dumper	366	7411.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	27056	Diesel or Hybrid
SF - Central - 16	Articulated Rear Dump 22 CY/CAT 730	Dumper	163	150.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	753	Diesel or Hybrid
SF - Central - 16	Tremie Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	163		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 17	Articulated Rear Dump 22 CY/CAT 730	Dumper	34	22.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	114	Diesel or Hybrid
SF - Central - 18	Articulated Rear Dump 22 CY/CAT 730	Dumper	31	50.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	252	Diesel or Hybrid
SF - Central - 18	Concrete Pump Truck	Off Highway Truck	31		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 19	Articulated Rear Dump 22 CY/CAT 730	Dumper	354	280.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1403	Diesel or Hybrid
SF - Central - 19	CAT 740 40T, Articulated End Dump	Dumper	354	13.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	66	Diesel or Hybrid
SF - Central - 19	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	354		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 19	Articulated Rear Dump 22 CY/CAT 730	Dumper to move soil on-site	354		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
SF - Central - 20	Tremie Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	754		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 22	Trailer, Lowboy, 50T	Off Highway Truck	246	250.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1250	Diesel
SF - Central - 22	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	246		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 23	Articulated Rear Dump 22 CY/CAT 730	Dumper	202	555.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	27977	Diesel or Hybrid
SF - Central - 23	Articulated Rear Dump 22 CY/CAT 735	Dumper	202	484.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2422	Diesel or Hybrid
SF - Central - 23	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	202		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 23	Articulated Rear Dump 22 CY/CAT 730	Dumper to move soil on-site	683		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
SF - Central - 24	Tremie Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	181		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 25	Articulated Rear Dump 22 CY/CAT 735	Dumper	445	83046.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	415230	Diesel
SF - Central - 26	CAT 770 Dump	Dumper	1355	11203	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	56014	Diesel or Hybrid
SF - Central - 26	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	1355		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 27	CAT 769, 41.6T End Dump	Dumper	1748	34297.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
SF - Central - 28	Cat 770, 511HP	Dumper	2191		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
SF - Central - 28	Cat 745 43T, Articulated End Dump	Dumper	2191		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
SF - Central - 29	CAT735, 35T, Articulated End Dump	Dumper	275	8194	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	40972	Diesel or Hybrid
SF - Central - 29	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	275		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 30	Cat 770, 511HP	Dumper	185	134.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	674	Diesel or Hybrid
SF - Central - 30	Articulated Rear Dump 22 CY/CAT 730	Dumper	185	3081.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	15406	Diesel or Hybrid
SF - Central - 30	CAT735, 35T, Articulated End Dump	Dumper	185	287	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1435	Diesel or Hybrid
SF - Central - 30	Trailer, Lowboy, 50T	Off Highway Truck	185	550.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2750	Diesel
SF - Central - 30	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	185		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 31	Trailer, Lowboy, 50T	Off Highway Truck	646	401.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2010	Diesel
SF - Central - 31	Articulated Rear Dump 22 CY/CAT 730	Dumper	646	13991.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	69956	Diesel or Hybrid
SF - Central - 31	Cat 770, 511HP	Dumper	646	205.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1027	Diesel or Hybrid
SF - Central - 31	CAT 740 40T, Articulated End Dump	Dumper	646	610.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3050	Diesel or Hybrid
SF - Central - 31	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	646		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 32	Trailer, Lowboy, 50T	Off Highway Truck	137	222.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1111	Diesel
SF - Central - 32	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	137		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 34	CAT 740 40T, Articulated End Dump	Dumper	771	639.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3195	Diesel or Hybrid
SF - Central - 34	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	771		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 35	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	90		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 37	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	36		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 37	Trailer, Lowboy, 50T	Off Highway Truck	36		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 38	Articulated Rear Dump 22 CY/CAT 730	Dumper	952	639.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3195	Diesel or Hybrid
SF - Central - 38	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	952	1278.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	6390	Diesel
SF - Central - 39	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	277		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 41	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	38		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 43	Articulated Rear Dump 22 CY/CAT 730	Dumper	240	1355.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	6777	Diesel or Hybrid
SF - Central - 43	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	240	1628.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	8140	Diesel
SF - Central - 44	Trailer, Lowboy, 120T	Off Highway Truck	93		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 45	Cat 770, 511HP	Dumper	166		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
SF - Central - 45	CAT 740 40T, Articulated End Dump	Dumper	166		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
SF - Central - 45	Trailer, Flatbed, 40T	Off Highway Truck	166		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 45	Truck, End Dump, 10-13cy, Hwy	Dumper	166		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 46	Articulated Rear Dump 22 CY/CAT 730	Dumper	446	1355.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	6777	Diesel or Hybrid
SF - Central - 46	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	446	1364.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	6820	Diesel
SF - Central - 55	CAT 740 40T, Articulated End Dump	Dumper	240	200.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1000	Diesel or Hybrid

**Employees Required to Southern Complex on Byron Tract - Central
Option 1**

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
SF - Central - 1	Carpenter Apprentice	8.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 1	Carpenter Foreman	8.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 1	Carpenter Journeyman	17.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 1	Electrical Foreman	4.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 1	Electrical Journeyman	17.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 1	Iron Worker Journeyman	17.8				32
SF - Central - 1	Rebar/Struct		10		Stockton to/from Southern Complex on Byron Tract	
SF - Central - 1	Laborer G2 General	3217.8	10		Stockton to/from Southern Complex on Byron Tract	32
						32
SF - Central - 1	Operator G3a Cranes 45 t and under	328.8	10		Stockton to/from Southern Complex on Byron Tract	
SF - Central - 1	Teamster G1 Hwy ED<6cy, Flatbed	799.7	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 1	Teamster G3 Boom Truck	4.4	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-1						
SF - Central - 2	Carpenter Apprentice	44.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Carpenter Foreman	44.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Carpenter Journeyman	88.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Electrical Foreman	22.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Electrician Journeyman	88.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Iron Worker Journeyman Rebar/Stru	88.89	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Laborer G2 General	16088.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Operator G3a Cranes 45 t and under	1644.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Teamster G1 Hwy ED<6cy, Flatbed	4000.28	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Teamster G3 Boom Truck	22.22	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-2						
SF - Central - 3	Laborer G1 Pipe layers	757.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Laborer G1 Power Tamper	378.7	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Laborer G2 General	4903.5	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Laborer G3 Flagman	1240.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Operator G3 Loader >4cy	328.5	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Operator G2a Cranes 45 to 100 t	2423.76	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	OPERATING ENGINEER FOREMAN	2480	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Operator G2 Excavator 3.5 to 7.0	363.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Operator G2 Finish Blade	853.3	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Operator G3 BH-Loader>3/4cy	2613.1	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Operator G4 Dozer & Push Cat	1799.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Operator G4 Grade Check	1211.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Operator G5 Compactor w-blade	1086.3	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Teamster G2 Hwy ED 6-8cy, Wate	1604.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Teamster G3 ED 8-24cy, Water>7	4895.3	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-3						
			150			
SF - Central - 4	Laborer Foreman	30.44	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Laborer G1 Pipe layers	401.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Laborer G3 Bridge labor	5696.96	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Laborer G1 Power Tamper	140	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Laborer G2 General	1412.5	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Laborer G3 Flagman	1090.5	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	OPERATING ENGINEER FOREMAN	2653.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G2 Finish Blade	646.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G1a Cranes>100 t	1424.24	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G2 Excavator 3.5 to 7.0 cy	267.34	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G2a Cranes 45 to 100 t	1424.24	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G3 BH-Loader>3/4cy	407.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G4 Dozer & Push Cat	470.7	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G4 Grade Check	857.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G4 Loader <4.1cy	70	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G4a Boom truck<15 ton	35.14	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G5 Asphalt Roller	623.78	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G5 Compactor w-blade	203.35	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G5 Paver	311.89	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G7 Roller, Compactor	545.26	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G8 Generator	109.05	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Pile Driver Wharf and Dock	5696.96	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Teamster G1 Hwy ED<6cy, Flatbed	1469.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Teamster G2 Hwy ED 6-8cy, Water<7	1123.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Teamster G3 Boom Truck	35.14	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Teamster G3 ED 8-24cy, Water>7mg;	1069.4	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-4						
SF - Central - 5	Laborer G2 General	320	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Laborer G3 Flagman	320	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	OPERATING ENGINEER FOREMAN	264.1	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Operator G2 Finish Blade	208.3	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Operator G3 Loader >4cy	104.1	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Operator G4 Dozer & Push Cat	320	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Operator G4 Grade Check	104.1	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Operator G4 Loader <4.1cy	264.1	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Operator G4 Trim Machine	80	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Operator G5 Compactor w-blade	104.1	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Teamster G2 Hwy ED 6-8cy, Water<7	160	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Teamster G3 ED 8-24cy, Water>7mg;	528.3	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-5						
		0	120			
SF - Central - 6	Carpenter Apprentice	790.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Carpenter Foreman	790.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Carpenter Journeyman	1581.9	10		Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 6	Electrical Foreman	197.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Electrician Journeyman	790.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Iron Worker Journeyman Rebar/Stru	1581.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Laborer G2 General	49041.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	OPERATING ENGINEER FOREMAN	15820	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Operator G2 Plant Operator	31639.99	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Operator G3 BH-Loader>3/4cy	15819.99	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Operator G3a Cranes 45 t and under	15819.99	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Operator G4 Grade Check	15819.99	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Operator G4 Hvy Duty Mechanic	15819.99	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Operator G4a Boom truck<15 ton	790.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Teamster G1 Hwy ED<6cy, Flatbed	15820	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Teamster G2 Hwy ED 6-8cy, Water<7	15820	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Teamster G3 Boom Truck	395.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-6					
SF - Central - 7	Carpenter Apprentice	2924.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Carpenter Foreman	2924.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Carpenter Journeyman	5707.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Electrical Foreman	1121.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Electrician Journeyman	3663.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Iron Worker Journeyman Rebar/Stru	5848.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Laborer Foreman	8600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Laborer G1 Pipe layers	1600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Laborer G2 General	40328	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	OPERATING ENGINEER FOREMAN	80	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G2 Finish Blade	80	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G2a Cranes 45 to 100 t	1634.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G4 BH-Loader <.76cy	1600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G4 Dozer & Push Cat	80	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G4 Grade Check	80	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G4 Loader <4.1cy	7800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G4 Scraper	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G4a Boom truck<15 ton	1501.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G6 Tractor	3900	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G7 Roller, Compactor	80	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Teamster G2 Hwy ED 6-8cy, Water<7	880	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Teamster G3 Boom Truck	1462.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Teamster G1 Hwy ED<6cy, Flatbed	15600	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-7					
SF - Central - 8	Carpenter Journeyman	13265.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Electrician Journeyman	13265.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Laborer Foreman	7164.18	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Laborer G4 Clean-up	4328.36	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Operator G1a Cranes>100 t	41600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Operator G2 Finish Blade	1432.84	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Operator G3 BH-Loader>3/4cy	7164.18	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Operator G4 Hvy Duty Mechanic	10400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Operator G5 Compactor w-blade	1432.84	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Operator G5 Concrete Pump	5200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Operator G7 Oiler	31200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Teamster G1 Hwy ED<6cy, Flatbed	17564.2	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-8					
SF - Central - 9	Carpenter Apprentice	1000	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Carpenter Foreman	1276.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Carpenter Journeyman	3954.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Cement Mason Foreman	120.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Cement Mason Journeyman	628.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Electrical Foreman	1000	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Electrician Journeyman	5066.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Iron Worker Foreman	360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Iron Worker Journeyman Rebar/Stru	8519.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Laborer Foreman	693.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Laborer G1 Pipe layers	1066.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Laborer G1 Vibrator, Green Cutter	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Laborer G2 Concrete Laborer	300	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Laborer G2 General	4823.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Laborer G2 High Pressure Nozzlemar	60	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	OPERATING ENGINEER FOREMAN	108.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G1a Cranes>100 t	40	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G2 Excavator 3.5 to 7.0 cy	25	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G2 Finish Blade	6.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G2a Cranes 45 to 100 t	190	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G3 BH-Loader>3/4cy	533.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G3 Loader >4cy	656.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G3a Cranes 45 t and under	1000	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G4 Dozer & Push Cat	108.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G4 Grade Check	108.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G4 Hvy Duty Mechanic	75	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G4a Boom truck<15 ton	1000	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G5 Compactor w-blade	83.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G7 Oiler	40	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Pile Driver Foreman	40	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Pile Driver Journeyman	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Teamster G1 Hwy ED<6cy, Flatbed	266.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Teamster G2 Hwy ED 6-8cy, Water<7	314.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Teamster G3 Boom Truck	1000	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Teamster G3 ED 8-24cy, Water>7mg;	1750	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Teamster G4 ED 25-65 Cy	241.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Teamster G4 Tractor, Lowbed/Trailer	40	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-9			370		
SF - Central - 10	Bullgang Foreman		10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Bullgang Laborer		10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Carpenter		10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Carpenter Foreman	320.8	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 10	Compactor Journeyman	2105	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Cement Mason Foreman	400.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Cement Mason Journeyman	2535.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10			10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10			10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10			10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Laborer Foreman	115	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Laborer G1 Vibrator, Green Cutter	230	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Laborer G2 Concrete Laborer	345	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Iron Worker Journeyman Rebar/Stru	2173.39	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Iron Worker Foreman	310.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Laborer G2 General	2191.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	OPERATING ENGINEER FOREMAN	74.17	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Operator G2 Finish Blade	74.17	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Operator G2a Cranes 45 to 100 t	325	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Operator G3 Loader >4cy	74.17	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Operator G4 Hvy Duty Mechanic	81.25	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Operator G5 Compactor w-blade	74.17	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Teamster G1 Hwy ED<6cy, Flatbed	81.25	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Teamster G3 ED 8-24cy, Water>7mg;	635.8	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-10					

SF - Central - 11	Carpenter Apprentice	927.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Carpenter Foreman	927.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Carpenter Journeyman	1854.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Electrical Foreman	231.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Electrician Journeyman	927.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Iron Worker Foreman	8565.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Iron Worker Journeyman Rebar/Stru	14489.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Laborer Foreman	8564	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Laborer G2 Concrete Laborer	51383.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Laborer G2 General	74565	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	OPERATING ENGINEER FOREMAN	16098.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G1a Cranes>100 t	24454.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G2 Finish Blade	417.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G2 Micro Tunnel	17126.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G2a Cranes 45 to 100 t	17126.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G3 BH-Loader>3/4cy	8562.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G3 Loader >4cy	8771.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G4 Dozer & Push Cat	8562.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G4 Grade Check	8771.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G4 Hvy Duty Mechanic	8562.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G4 Loader <4.1cy	208.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G4a Boom truck<15 ton	927.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G5 Compactor w-blade	208.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G5 Drilling & Boring Mach	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G7 Oiler	41781.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Teamster G1 Hwy ED<6cy, Flatbed	8562.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Teamster G3 Boom Truck	463.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Teamster G3 ED 8-24cy, Water>7mg;	34669.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Teamster G4 Water Tanker, Off Hwy	208.8	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-11					

SF - Central - 12	Carpenter Foreman	3565.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Carpenter Journeyman	23665.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Cement Mason Foreman	951.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Cement Mason Journeyman	3716.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Iron Worker Foreman	17222.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Iron Worker Journeyman Rebar/Stru	117287.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Laborer Foreman	8563.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Laborer G1 Vibrator, Green Cutter	2215.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Laborer G2 Concrete Laborer	13336.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Laborer G2 General	48789.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Laborer G2 High Pressure Nozzlelema	4675	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	OPERATING ENGINEER FOREMAN	4170.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G1a Cranes>100 t	16929.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G2 Excavator 3.5 to 7.0 cy	3384.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G2 Finish Blade	135.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G2 Plant Operator	160.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G2a Cranes 45 to 100 t	7537.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G3 Loader >4cy	271.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G3a Cranes 45 t and under	376.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G4 Dozer & Push Cat	1443	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G4 Hvy Duty Mechanic	831.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G5 Compactor w-blade	271.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G6 Screedman	215.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G6 Tractor	271.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G7 Oiler	16929.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G8a Skidsteer <Bobcat 743	277.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Teamster G2 Hwy ED 6-8cy, Water<7	345.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Teamster G3 ED 8-24cy, Water>7mg;	14262.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Teamster G4 ED 25-65 Cy	9671.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Teamster G4 Tractor, Lowbed/Trailer	9215.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-12					

SF - Central - 13	Carpenter Apprentice	222	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Carpenter Foreman	6400.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Carpenter Journeyman	30818.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Cement Mason Foreman	729.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Cement Mason Journeyman	2875.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Electrical Foreman	1494.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Electrical Lineman	1440	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Electrician Journeyman	217	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Iron Worker Foreman	7277	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Iron Worker Journeyman Rebar/Stru	52723.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Iron Worker-Rigger	509.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Laborer Foreman	5394.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Laborer G1 Vibrator, Green Cutter	2023.8	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 13	Laborer G2 Concrete Laborer	17772.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Laborer G2 General	48301.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Laborer G2 High Pressure Nozzleman	793.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Laborer G3 Flagman	479.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Millwright	5760	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	OPERATING ENGINEER FOREMAN	4877.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G1a Cranes>100 t	12282.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G2 Excavator 3.5 to 7.0 cy	301	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G2 Finish Blade	159.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G2 Micro Tunnel	3899	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G2a Cranes 45 to 100 t	8328.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G3 BH-Loader>3/4cy	1948.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G3 Loader >4cy	2044.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G4 Dozer & Push Cat	2514.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G4 Grade Check	2103	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G4 Hvy Duty Mechanic	2356.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G4 Loader <4.1cy	34.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G4a Boom Truck<15 ton	217	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G5 Compactor w-blade	95.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G6 Screedman	171.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G6 Tractor	61.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G7 Oiler	18130.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G8a Skidsteer <Bobcat 743	90.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Pipefitter Foreman	1440	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Pipefitter Journeyman	1440	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Teamster G1 Hwy ED<6cy, Flatbed	2924.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Teamster G2 Hwy ED 6-8cy, Water<7	165.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Teamster G3 Boom Truck	108.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Teamster G3 ED 8-24cy, Water>7mg;	10899.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Teamster G4 ED 25-65 Cy	2790.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Teamster G4 Tractor, Lowbed/Trailer	1700.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Teamster G4 Water Tanker, Off Hwy	34.2	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Central-13

SF - Central - 14	Carpenter Apprentice	20	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Carpenter Foreman	9566	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Carpenter Journeyman	54854.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Cement Mason Foreman	2346.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Cement Mason Journeyman	11873.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Electrical Foreman	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Electrical Lineman	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Iron Worker Foreman	7746.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Iron Worker Journeyman Rebar/Stru	50209.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Iron Worker-Rigger	199.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Laborer Foreman	3183.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Laborer G1 Vibrator, Green Cutter	1794.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Laborer G2 Concrete Laborer	6735.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Laborer G2 General	39429.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Laborer G2 High Pressure Nozzleman	851	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Millwright	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	OPERATING ENGINEER FOREMAN	959.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G1a Cranes>100 t	7689.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G2 Excavator 3.5 to 7.0 cy	1410.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G2 Finish Blade	254.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G2a Cranes 45 to 100 t	3717.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G3 Loader >4cy	508.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G4 Dozer & Push Cat	508.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G4 Hvy Duty Mechanic	788.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G4 Loader <4.1cy	508.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G5 Compactor w-blade	508.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G6 Screedman	346.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G6 Tractor	508.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G7 Oiler	8088.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G8a Skidsteer <Bobcat 743	1435.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Pile Driver Foreman	163	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Pile Driver Journeyman	977.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Pipefitter Foreman	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Pipefitter Journeyman	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Teamster G1 Hwy ED<6cy, Flatbed	204.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Teamster G2 Hwy ED 6-8cy, Water<7	1562.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Teamster G3 ED 8-24cy, Water>7mg;	3803.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Teamster G4 ED 25-65 Cy	2486.3	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Central-14

SF - Central - 15A	Operator G1a Cranes>100 t	3120	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15A	Operator G3 BH-Loader>3/4cy	3120	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15A	Operator G7 Oiler	3120	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15A	Pipefitter Apprentice	12480	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15A	Pipefitter Foreman	3120	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15A	Pipefitter Journeyman	18720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15A	Teamster G4 Tractor, Lowbed/Trailer	1560	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Central-15

SF - Central - 15B	Carpenter Apprentice	80	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Carpenter Foreman	2810.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Carpenter Journeyman	16707.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Cement Mason Foreman	585.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Cement Mason Journeyman	2682.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Electrical Foreman	20	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Electrician Journeyman	80	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Iron Worker Foreman	6555	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Iron Worker Journeyman Rebar/Stru	46387	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Laborer Foreman	2170.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Laborer G1 Vibrator, Green Cutter	1166.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Laborer G2 Concrete Laborer	4579.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Laborer G2 General	15111.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Laborer G2 High Pressure Nozzleman	2292.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	OPERATING ENGINEER FOREMAN	2257.2	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 15B	Operator G1a Cranes>100 t	3034.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G2 Excavator 3.5 to 7.0 cy	1244.38	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G2 Finish Blade	1103.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G2 Micro Tunnel	180	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G2 Plant Operator	616.38	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G2a Cranes 45 to 100 t	1693.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G3 BH-Loader>3/4cy	616.38	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G3 Loader >4cy	1012.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G3a Cranes 45 t and under	616.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G4 Dozer & Push Cat	3105.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G4 Grade Check	1640.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G4 Hvy Duty Mechanic	224.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G4a Boom truck<15 ton	40	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G5 Compactor w-blade	396.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G6 Screedman	84.23	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G7 Oiler	3830.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G8a Skidsteer <Bobcat 743	260.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Teamster G1 Hwy ED<6cy, Flatbed	616.38	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Teamster G2 Hwy ED 6-8cy, Water<7	1188.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Teamster G3 Boom Truck	40	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Teamster G3 ED 8-24cy, Water>7mg;	2289.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Teamster G4 ED 25-65 Cy	8027.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Teamster G4 Water Tanker, Off Hwy	396.4	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Central-15

SF - Central - 16	Carpenter Apprentice	1146.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Carpenter Foreman	1258.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Carpenter Journeyman	3166.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Cement Mason Foreman	141.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Cement Mason Journeyman	804.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Electrical Foreman	1146.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Electrician Journeyman	2293.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Iron Worker Foreman	258	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Iron Worker Journeyman Rebar/Stru	4099.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Laborer Foreman	110.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Laborer G1 Vibrator, Green Cutter	189.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Laborer G2 Concrete Laborer	569.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Laborer G2 General	3849.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Laborer G2 High Pressure Nozzleman	15.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	OPERATING ENGINEER FOREMAN	75.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G1a Cranes>100 t	301.11	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G2a Cranes 45 to 100 t	301.11	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G3 Loader >4cy	75.28	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G3a Cranes 45 t and under	1146.67	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G4 Dozer & Push Cat	75.28	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G4 Grade Check	75.28	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G4 Hvy Duty Mechanic	75.28	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G4a Boom truck<15 ton	1146.67	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G5 Compactor w-blade	75.28	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G6 Screedman	94.86	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G7 Oiler	301.11	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Teamster G2 Hwy ED 6-8cy, Water<7	37.64	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Teamster G3 Boom Truck	1146.67	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Teamster G3 ED 8-24cy, Water>7mg;	284.56	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Teamster G4 ED 25-65 Cy	150.56	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Central-16

SF - Central - 17	Carpenter Apprentice	1283.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Carpenter Foreman	1320.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Carpenter Journeyman	2827.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Cement Mason Foreman	31.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Cement Mason Journeyman	196.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Electrical Foreman	1283.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Electrician Journeyman	2566.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Iron Worker Foreman	88.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Iron Worker Journeyman Rebar/Stru	3186.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Laborer Foreman	35.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Laborer G1 Vibrator, Green Cutter	51	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Laborer G2 Concrete Laborer	76.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Laborer G2 General	2966.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Laborer G2 High Pressure Nozzleman	10.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	OPERATING ENGINEER FOREMAN	11.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G1a Cranes>100 t	80.95	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G2a Cranes 45 to 100 t	80.95	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G3 Loader >4cy	11.33	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G3a Cranes 45 t and under	1283.33	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G4 Dozer & Push Cat	11.33	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G4 Grade Check	11.33	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G4 Hvy Duty Mechanic	20.24	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G4a Boom truck<15 ton	1283.33	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G5 Compactor w-blade	11.33	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G6 Screedman	25.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G7 Oiler	80.95	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Teamster G2 Hwy ED 6-8cy, Water<7	5.67	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Teamster G3 Boom Truck	1283.33	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Teamster G3 ED 8-24cy, Water>7mg;	38.25	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Teamster G4 ED 25-65 Cy	22.67	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Central-17

SF - Central - 18	Carpenter Foreman	33.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Carpenter Journeyman	235.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Cement Mason Foreman	20.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Cement Mason Journeyman	117.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Electrical Foreman	0.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Electrician Journeyman	0.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Iron Worker Foreman	48	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Iron Worker Journeyman Rebar/Stru	336	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Laborer Foreman	19.5	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 18	Laborer G1 Vibrator, Green Cutter	27.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Laborer G2 Concrete Laborer	41.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Laborer G2 General	246.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Laborer G2 High Pressure Nozzle/leamar	5.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Millwright	0.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	OPERATING ENGINEER FOREMAN	25.18	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G1a Cranes>100 t	44.13	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G2a Cranes 45 to 100 t	44.13	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G3 Loader >4cy	25.18	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G3a Cranes 45 t and under	0.05	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G4 Dozer & Push Cat	25.18	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G4 Grade Check	25.18	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G4 Hvy Duty Mechanic	11.03	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G4a Boom truck<15 ton	0.05	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G5 Compactor w-blade	25.18	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G7 Oiler	44.13	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Teamster G2 Hwy ED 6-8cy, Water<7mgal		10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Teamster G3 Boom Truck		10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Teamster G3 ED 8-24cy, Water>7mgal		10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Teamster G4 ED 25-65 Cy		10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-18					

SF - Central - 19	Carpenter Apprentice	2290	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Carpenter Foreman	2540.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Carpenter Journeyman	6311	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Cement Mason Foreman	294	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Cement Mason Journeyman	2029.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Electrical Foreman	2441.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Electrician Lineman	151.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Electrician Journeyman	4580	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Iron Worker Foreman	693	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Iron Worker Journeyman Rebar/Stru	9430.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Laborer Foreman	2101.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Laborer G1 Pipe Layers	1562.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Laborer G1 Vibrator, Green Cutter	509	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Laborer G2 Concrete Laborer	2306.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Laborer G2 General	15777.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Laborer G2 High Pressure Nozzle/leamar	60	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Laborer G3 Flagman	60.11	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	OPERATING ENGINEER FOREMAN	240.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G1a Cranes>100 t	404	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G2 Excavator 3.5 to 7.0 cy	2.64	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G2 Finish Blade	62.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G3a Cranes 45 t and under	807.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G3 BH-Loader>3/4cy	1385.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G3 Loader >4cy	921.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G3a Cranes 45 t and under	2290	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G4 Dozer & Push Cat	145.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G4 Grade Check	180.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G4 Hvy Duty Mechanic	201.98	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G4 Loader <4.1cy	60.11	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G4a Boom truck<15 ton	2290	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G5 Asphalt Roller	74.72	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G5 Compactor w-blade	203	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G5 Curb & Gutter Conc Fini	260	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G5 Paver	37.36	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G6 Screedman	254.47	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G6 Tractor	0.53	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G7 Oiler	807.94	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G8 Pump	12.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G8a Skidsteer <Bobcat 743	1162	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Teamster G1 Hwy ED<6cy, Flatbed	1329.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Teamster G2 Hwy ED 6-8cy, Water<7	1016.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Teamster G3 Boom Truck	2290	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Teamster G3 ED 8-24cy, Water>7mgi	943.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Teamster G4 ED 25-65 Cy	293.7	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-19					

SF - Central - 20	Carpenter Apprentice	4777.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Carpenter Foreman	12642.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Carpenter Journeyman	59581.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Cement Mason Foreman	1718.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Cement Mason Journeyman	6524.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Electrical Foreman	5527.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Electrician Journeyman	15833.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Iron Worker Foreman	6466.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Iron Worker Journeyman Rebar/Stru	48943.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Laborer Foreman	2194.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Laborer G1 Vibrator, Green Cutter	1376.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Laborer G2 Concrete Laborer	4129.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Laborer G2 General	41222.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Laborer G2 High Pressure Nozzle/leamar	416.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Operator G1a Cranes>100 t	6696.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Operator G3a Cranes 45 t and under	7283.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Operator G4 Hvy Duty Mechanic	552.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Operator G4a Boom truck<15 ton	4333.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Operator G6 Screedman	306.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Operator G7 Oiler	7436.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Operator G8a Skidsteer <Bobcat 743	89.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Teamster G1 Hwy ED<6cy, Flatbed	1941.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Teamster G2 Hwy ED 6-8cy, Water<7	89.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Teamster G3 Boom Truck	4333.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Teamster G3 ED 8-24cy, Water>7mgi	2064.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Teamster G4 Tractor, Lowbed/Trailer	740	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-20					

SF - Central - 21	Carpenter Foreman	3333.33	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 21	Carpenter Journeyman	6666.67	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 21	Laborer G2 General	3333.33	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-21					
SF - Central - 22	Carpenter Foreman	2100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Electrical Lineman	4000	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Electrical Foreman	3200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Electrician Journeyman	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Iron Worker Rigger	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Laborer G2 General	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Millwright	12400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Operator G1a Cranes>100 t	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Operator G3a Cranes 45 t and under	1408.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Operator G7 Oiler	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Pipefitter Foreman	1492.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Pipefitter Journeyman	4477.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Teamster G1 Hwy ED<6cy, Flatbed	2200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Teamster G4 Tractor, Lowbed/Trailer	250	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-22					
SF - Central - 23	Carpenter Apprentice	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Carpenter Foreman	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Carpenter Journeyman	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Electrical Foreman	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Electrician Journeyman	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Iron Worker Rigger	50	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Iron Worker Journeyman Rebar/Stru	241	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Laborer Foreman	39.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Laborer G1 Pipe Layer	2577	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Laborer G2 General	5318.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Laborer G3 Flagman	337.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	OPERATING ENGINEER FOREMAN	14800.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G2 Excavator 3.5 to 7.0 cy	1220.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G2 Finish Blade	25208.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G2a Cranes 45 to 100 t	120.48	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G3 BH-Loader>3/4cy	7538.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G3 Loader >4cy	1499.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G3a Cranes 45 t and under	120.48	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G4 BH-Loader <.76cy	50	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G4 Dozer & Push Cat	2052.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G4 Grade Check	208.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G4 Scraper	80	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G4a Boom truck<15 ton	110.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G5 Compactor w-blade	920.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G8 Pump	33.77	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Teamster G1 Hwy ED<6cy, Flatbed	59.32	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Teamster G2 Hwy ED 6-8cy, Water<7	26438	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Teamster G3 Boom Truck	170.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Teamster G3 ED 8-24cy, Water>7mg;	19086.2	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-23					
SF - Central - 24	Laborer G2 General	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 24	Laborer G3 Flagman	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 24	OPERATING ENGINEER FOREMAN	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 24	Operator G2 Finish Blade	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 24	Operator G4 Dozer & Push Cat	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 24	Operator G4 Loader <4.1cy	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 24	Teamster G2 Hwy ED 6-8cy, Water<7	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 24	Teamster G3 ED 8-24cy, Water>7mg;	1600	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-24					
SF - Central - 25	Electrical Lineman	1560	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Laborer Foreman	3900	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Laborer G1 Pipe layers	7800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Laborer G3 Flagman	41522.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Laborer G4 Clean-up	559.44	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	OPERATING ENGINEER FOREMAN	21582.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Operator G2 Excavator 3.5 to 7.0 cy	22124.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Operator G2 Finish Blade	5190.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Operator G4 Dozer & Push Cat	22404.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Operator G4 Grade Check	10380.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Operator G8 Generator	7800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Teamster G2 Hwy ED 6-8cy, Water<7	5190.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Teamster G3 Boom Truck	3900	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Teamster G3 ED 8-24cy, Water>7mg;	83604.9	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-25					
SF - Central - 26	Laborer G2 General	64408.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	OPERATING ENGINEER FOREMAN	49343.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G2 Excavator 3.5 to 7.0 cy	10332	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G2 Finish Blade	11202.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G2 Plant Operator	41476.92	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G3 BH-Loader>3/4cy	20738.46	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G3a Cranes 45 t and under	20738.46	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G4 Dozer & Push Cat	48073.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G4 Grade Check	31070.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G4 Scraper	73091.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G5 Compactor w-blade	18272.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G6 Tractor	2066.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G7 Roller, Compactor	28604.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G8 Pump	2066.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Teamster G1 Hwy ED<6cy, Flatbed	20738.46	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Teamster G2 Hwy ED 6-8cy, Water<7	20738.46	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Teamster G3 ED 8-24cy, Water>7mg;	11202.8	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-26					
SF - Central - 27	Laborer G2 General	119.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 27	OPERATING ENGINEER FOREMAN	13583.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 27	Operator G5 Compactor w-blade	119.4	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 27	Operator G4 Dozer & Push Cat	32095.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 27	Operator G4 Scraper	19915.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 27	Operator G2 Excavator 3.5 to 7.0 cy	17148.76	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 27	Operator G2 Finish Blade	119.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 27	Teamster G3 ED 8-24cy, Water>7mg;	34297.53	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-27					
SF - Central - 28	Carpenter Journeyman	2075.47	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 28	Electrician Journeyman	4150.94	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 28	Laborer Foreman	21371.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 28	Laborer G2 General	26140	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 28	Laborer G4 Clean-up	16603.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 28	Operator G3 BH-Loader>3/4cy	8610.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 28	Operator G6 Tractor	6535	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 28	Teamster G1 Hwy ED<6cy, Flatbed	21371.9	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-28					
SF - Central - 29	Laborer Foreman	1895.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Laborer G2 General	15469	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Laborer G3 Fence Builder	7259.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	OPERATING ENGINEER FOREMAN	5638.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G8a Skidsteer <Bobcat 743	107.14	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G2 Excavator 3.5 to 7.0 cy	2921.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G2 Finish Blade	2339.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G3 BH-Loader>3/4cy	2688	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G3 Gradall	2867.76	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G3 Loader >4cy	5355.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G4 Dozer & Push Cat	895.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G4 Grade Check	1160.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G4 Scraper	555.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G4 Trim Machine	819.64	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G5 Compactor w-blade	2093.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G6 Tractor	334	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G7 Roller, Compactor	340.74	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G8 Pump	603.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Teamster G1 Hwy ED<6cy, Flatbed	4321.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Teamster G2 Hwy ED 6-8cy, Water<7	2564.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Teamster G3 ED 8-24cy, Water>7mg;	9142.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Teamster G4 ED 25-65 Cy	2458.9	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-29					
SF - Central - 30	Carpenter Foreman	1187.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Carpenter Journeyman	8309.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Cement Mason Foreman	12.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Cement Mason Journeyman	36.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Iron Worker Foreman	1026.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Iron Worker Journeyman Rebar/Stru	6160.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Laborer Foreman	310	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Laborer G1 Vibrator, Green Cutter	63.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Laborer G2 Concrete Laborer	1675.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Laborer G2 General	6227.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Laborer G2 High Pressure Nozzle/ma	13.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Laborer G3 Dumpman	171.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	OPERATOR - MECHANIC	137.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	OPERATING ENGINEER FOREMAN	2115.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G1a Cranes>100 t	7725.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G2 Excavator 3.5 to 7.0 cy	597.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G2 Finish Blade	134.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G2 Plant Operator	2476	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G2a Cranes 45 to 100 t	792.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G3 BH-Loader>3/4cy	1310.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G3 Loader >4cy	447	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G3a Cranes 45 t and under	1169.23	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G4 Dozer & Push Cat	1419	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G4 Grade Check	1482.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G4 Hvy Duty Mechanic	6.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G4 Scraper	808.29	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G4 Trim Machine	3.93	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G5 Compactor w-blade	269.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G5 Drilling & Boring Mach	1000	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G7 Roller, Compactor	171.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G6 Tractor	171.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G7 Oiler	1863	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Pile Driver Foreman	550	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Pile Driver Wharf and Dock	2200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Teamster G1 Hwy ED<6cy, Flatbed	1553.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Teamster G2 Hwy ED 6-8cy, Water<7	1255.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Teamster G4 ED 25-65 Cy	11.8	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-30					
SF - Central - 31	Carpenter Apprentice	350	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Carpenter Foreman	7363.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Carpenter Journeyman	53266.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Cement Mason Foreman	1489.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Cement Mason Journeyman	5948.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Electrical Foreman	175	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Electrician Journeyman	600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Iron Worker Foreman	8058	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Iron Worker Journeyman Rebar/Stru	49182.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Laborer Foreman	1203.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Laborer G1 Vibrator, Green Cutter	661.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Laborer G2 Concrete Laborer	10972.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Laborer G2 General	32075.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Laborer G3 Dumpman	33.33	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	OPERATING ENGINEER FOREMAN	8576	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	OPERATOR - MECHANIC	3524.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G1 Excavator >7CY	205.39	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G1a Cranes>100 t	4408.5	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 31	Operator G2 Excavator 3.5 to 7.0 cy	610	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G2 Finish Blade	215.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G3 BH-Loader>3/4cy	7727.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G2 Plant Operator	11973.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G2a Cranes 45 to 100 t	4283.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G3 Loader >4cy	4368.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G3a Cranes 45 t and under	4596.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G5 Concrete Pump	1380.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G4 Dozer & Push Cat	3925.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G4 Grade Check	7760.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G4 Hvy Duty Mechanic	132.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G5 Drilling & Boring Mach	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G5 Compactor w-blade	35.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G7 Oiler	8028.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Pile Driver Foreman	244	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Pile Driver Wharf and Dock	976	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Teamster G5 ED >65cy	1026.96	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Teamster G1 Hwy ED<6cy, Flatbed	8413.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Teamster G2 Hwy ED 6-8cy, Water<7	4262.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Teamster G3 Boom Truck	175	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Teamster G3 ED 8-24cy, Water>7mg;	17144.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Teamster G4 ED 25-65 Cy	610	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Teamster G4 Tractor, Lowbed/Trailer	401.9	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Central-31

SF - Central - 32	Carpenter Apprentice	60	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Carpenter Foreman	980	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Carpenter Journeyman	3180	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Electrical Lineman	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Electrical Foreman	900	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Electrician Journeyman	2500	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Iron Worker Foreman	98	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Iron Worker Journeyman Rebar/Stru	508.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Iron Worker Rigger	518	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Laborer G2 Concrete Laborer	2481.17	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Laborer G2 General	1830.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Operator G1a Cranes>100 t	237.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Operator G3 BH-Loader>3/4cy	222.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Operator G2a Cranes 45 to 100 t	1018	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Operator G4a Boom truck<15 ton	616.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Operator G3a Cranes 45 t and under	616.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Pipefitter Apprentice	888.89	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Pipefitter Foreman	222.22	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Pipefitter Journeyman	2133.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Teamster G1 Hwy ED<6cy, Flatbed	734	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Teamster G4 Tractor, Lowbed/Trailer	222.2	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Central-32

SF - Central - 33	Bullgang Foreman	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Bullgang Laborer	1600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Carpenter	1892	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Carpenter Foreman	287	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Compactor Operator	648	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Grade Setter / Checker	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Grader Operator	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Dozer Operator	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Flagger	648	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Iron Worker	5000	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Flat Truck Driver	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	General Foreman	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	General Laborer	1772	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Hyd Crane Operator	2201	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Iron Worker Foreman	500	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Loader Operator	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Laborer G2 General	17040	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Mechanic / Welder	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Operating Engineer	5680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Operator G2 Plant Operator	11360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Operator G3 BH Loader	5680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Operator G3a Crane	5680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Operator G4 Grade Check	5680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Operator G4 Heavy Duty Mechanic	5680	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Central-33

SF - Central - 34	Bottomlander	247	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Bullgang Foreman	16	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Bullgang Laborer	32	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Carpenter Foreman	318	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Carpenter	1272.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Concrete Superintendent	3360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Cost Engineer	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Crane Oiler	2118	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Dozer Operator	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Electrical Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	EMT	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Environmental Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Equipment Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Excavator Operator	405.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Field Engineer	5040	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Flat Truck Driver	16	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	General Foreman	1658	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	General Laborer	8479.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	General Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Geotechnical Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Grade Setter / Checker	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Grader Operator	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Hyd Crane Operator	1598.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Iron Worker	9158.2	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 34	Iron Worker Foreman	1633.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Lead Miner	698.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Loader Operator	1028.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Mechanic/Welder	1294	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Miner	6192.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Office Administrator	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Office Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Project Engineer	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Project Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	QC Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	QC Technician	3360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Runner	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Safety Engineer	13440	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Safety Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Schedule Engineer	3360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Shaft Crane Operator	2365	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Shift Engineers	13440	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Shifter	2313.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Survey Party Chief	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Survey Rod Man	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Toplander	1447	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Truck Driver	3971.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Tunnel Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Tunnel Walkers	13440	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-34					
SF - Central - 35	Bottomlander	1330.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Bulgang Foreman	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Bulgang Laborer	960	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Concrete Pump Operator	295	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Crane Oiler	1924.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Electrician	1279.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Heavy Duty Mechanic Welder	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Hyd Crane Operator	760	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Iron Worker	3948.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Iron Worker Foreman	493.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Lead Miner	1423	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Master Mechanic	480	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Mechanic/Welder	1688	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Miner	9831.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Shaft Crane Operator	1976.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Shifter	1494	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Toplander	1816.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Truck Driver	2179.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-35					
SF - Central - 36	Bottomlander	9170	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Bulgang Foreman	7693.9	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Bulgang Laborer	25595.5	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Conveyor Belt Man	4700	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Crane Oiler	9170	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Dozer Operator	4600	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Electrician	11350	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Fanline Carrier Operator	5000	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Flat Truck Driver	2590	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Hyd Crane Operator	5580	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Lead Miner	5750	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Loader Operator	4600	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Man Transport Truck Operator	5103.9	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Master Mechanic	2500	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Mechanic/Welder	16440	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Miner	43620	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Operating Engineer	4600	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Operator G2 Plant Operator	4600	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Segment Carrier Operator	32000	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Shaft Crane Operator	9170	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Shifter	5750	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	TBM Operator	10200	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Toplander	9170	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Utility Truck Operator	5103.9	20	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-36					
SF - Central - 37	Bottomlander	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Bulgang Foreman	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Bulgang Laborer	600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Crane Oiler	815	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Electrician	1854	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Forklift Operator	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Heavy Duty Mechanic Welder	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Hyd Crane Operator	815	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Lead Miner	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Master Mechanic	300	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Mechanic/Welder	1854	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Miner	4504	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Shaft Crane Operator	1139	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Shifter	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Toplander	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Utility Truck Operator	174	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-37					
SF - Central - 38	Bottomlander	247	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Bulgang Foreman	16	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Bulgang Laborer	32	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Carpenter Foreman	318	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Carpenter	1272.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Compactor Operator	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Concrete Superintendent	3360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Cost Engineer	6720	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 38	Crane Oiler	2118	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Dozer Operator	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Electrical Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	EMT	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Environmental Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Equipment Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Excavator Operator	405.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Field Engineer	5040	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Flat Truck Driver	16	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	General Foreman	1658	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	General Laborer	10137.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	General Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Geotechnical Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Grade Setter / Checker	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Grader Operator	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Hyd Crane Operator	1698.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Iron Worker	9158.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Iron Worker Foreman	1633.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Lead Miner	798.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Loader Operator	1028.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Mechanic/Welder	1294	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Miner	6992.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Office Administrator	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Office Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Operating Engineer	2133	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Project Engineer	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Project Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	QC Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	QC Technician	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Runner	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Safety Engineer	13440	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Safety Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Schedule Engineer	3360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Shaft Crane Operator	2365	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Shift Engineers	13440	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Shifter	2413.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Survey Party Chief	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Survey Rod Man	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Teamster G1 Hwy	2133	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Teamster G2 Hwy	2133	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Toplander	1447	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Truck Driver	3971.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Tunnel Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Tunnel Walkers	13440	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-38					

SF - Central - 39	Bottomlander	1330.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Bulgang Foreman	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Bulgang Laborer	960	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Concrete Pump Operator	295	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Crane Oiler	1924.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Electrician	1279.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Heavy Duty Mechanic Welder	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Hyd Crane Operator	660	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Iron Worker	3948.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Iron Worker Foreman	493.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Lead Miner	1323	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Master Mechanic	480	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Mechanic/Welder	1688	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Miner	9031.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Shaft Crane Operator	1976.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Shifter	1394	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Toplander	1816.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Truck Driver	2185.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-39					

SF - Central - 40	Bottomlander	9181	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Bulgang Foreman	7609	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Bulgang Laborer	25429.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Conveyor Belt Man	4710	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Crane Oiler	9181	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Dozer Operator	4610	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Electrician	11360	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Fanline Carrier Operator	5000	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Flat Truck Driver	2504	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Hyd Crane Operator	5408	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Lead Miner	5760	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Loader Operator	4610	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Man Transport Truck Operator	5105.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Master Mechanic	2500	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Mechanic/Welder	18864	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Miner	43728	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Operating Engineer	4610	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Operator G2 Plant Operator	4610	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Segment Carrier Operator	32030	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Shaft Crane Operator	9181	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Shifter	6475	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	TBM Operator	10220	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Toplander	9181	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Utility Truck Operator	5105.3	20	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-40					

SF - Central - 41	Bottomlander	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Bulgang Foreman	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Bulgang Laborer	600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Crane Oiler	815	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Electrician	1854	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Forklift Operator	324	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 41	Heavy Duty Mechanic Welder	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Hyd Crane Operator	815	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Lead Miner	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Master Mechanic	300	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Mechanic/Welder	1854	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Miner	4504	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Shaft Crane Operator	1139	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Shifter	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Toplander	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Utility Truck Operator	174	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-41					
SF - Central - 42	Bullgang Foreman	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Bullgang Laborer	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Carpenter	252	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Carpenter Foreman	63	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Compactor Operator	3896	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Concrete Superintendent	7200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Cost Engineer	14400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Dozer Operator	3694	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Electrical Superintendent	14400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	EMT	14400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Environmental Manager	14400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Equipment Superintendent	14400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Field Engineer	14400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Flat Truck Driver	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	General Foreman	202	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	General Laborer	530	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	General Superintendent	14400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Geotechnical Manager	14400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Grade Setter / Checker	3694	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Grader Operator	3694	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Hyd Crane Operator	863	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Loader Operator	202	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Mechanic/Welder	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Office Administrator	14400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Office Manager	14400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Operating Engineer	3547	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Project Engineer	14400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Project Manager	14400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	QC Manager	14400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	QC Technician	7200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Runner	14400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Safety Engineer	28800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Safety Manager	14400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Schedule Engineer	7200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Shift Engineers	28800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Survey Party Chief	14400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Survey Rod Man	14400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Teamster G1 Hwy	3547	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Teamster G2 Hwy	3547	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Truck Driver	3492	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Tunnel Superintendent	14400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Tunnel Walkers	28800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Operator G2 Plant Operator	7094	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Operator G3 BH Loader	3547	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Operator G3a Crane	3547	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Operator G4 Grade Check	3547	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Operator G4 Heavy Duty Mechanic	3547	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-42					
SF - Central - 43	Bottomlander	247	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Bullgang Foreman	16	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Bullgang Laborer	32	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Carpenter Foreman	480.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Carpenter	2426.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Compactor Operator	244	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Crane Oiler	1858	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Dozer Operator	122	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Excavator Operator	405.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Flagger	244	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Flat Truck Driver	16	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	General Foreman	1703	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	General Laborer	9166.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Grade Setter / Checker	122	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Grader Operator	122	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Hyd Crane Operator	2159.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Iron Worker	13388.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Iron Worker Foreman	1979.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Lead Miner	721.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Loader Operator	1150.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Mechanic/Welder	1217	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Miner	6376.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Shaft Crane Operator	2105.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Shifter	2182.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Toplander	1341	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Truck Driver	1297.6	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-43					
SF - Central - 44	Bottomlander	737	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Concrete Pump Operator	251.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Crane Oiler	1083	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Electrician	119.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Iron Worker	3196.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Iron Worker Foreman	399.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Lead Miner	735.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Mechanic Welder	484.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Miner	4331	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 44	Shaft Crane Operator	1135	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Shifter	806.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Toplander	1135	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Truck Driver	1518	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-44					
SF - Central - 45	Compactor Operator	3033	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	Dozer Operator	4404.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	General Foreman	18.35	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	Grade Setter / Checker	4367.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	Grader 16H - 16' Blade	36.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	Grader Operator	7437.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	Loader Operator	1334.59	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	Operator G4 Grade Check	18.35	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	Scraper Operator	73.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	Truck Driver	4367.6	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-45					
SF - Central - 46	Bottomlander	247	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Bullgang Foreman	96	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Bullgang Laborer	192	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Carpenter Foreman	1746.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Carpenter	376.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Compactor Operator	3513.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Crane Oiler	1858	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Dozer Operator	3513.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Excavator Operator	405.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Flat Truck Driver	96	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	General Foreman	1518	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	General Laborer	8214.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Grade Setter / Checker	3513.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Grader Operator	3513.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Hyd Crane Operator	1781.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Iron Worker	8388.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Iron Worker Foreman	1479.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Lead Miner	721.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Loader Operator	1028.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Mechanic/Welder	1297	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Miner	6376.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Shaft Crane Operator	2105	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Shifter	2182.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Toplander	1341	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Truck Driver	4549	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-46					
SF - Central - 47	Bottomlander	737	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Bullgang Foreman	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Bullgang Laborer	960	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Concrete Pump Operator	251.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Crane Oiler	1243	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Electrician	279.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Heavy Duty Mechanic Welder	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Hyd Crane Operator	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Iron Worker	3196.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Iron Worker Foreman	399.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Lead Miner	735.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Master Mechanic	480	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Mechanic/Welder	644.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Miner	4331	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Shaft Crane Operator	1295	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Shifter	806.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Toplander	1135	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-47					
SF - Central - 48	Bottomlander	48176	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Bullgang Foreman	34157	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Bullgang Laborer	113888	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Conveyor Belt Man	23818	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Crane Oiler	48176	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Dozer Operator	14000	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Electrician	48848	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Fanline Carrier Operator	22380	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Flat Truck Driver	11370	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Hyd Crane Operator	23640	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Iron Worker		20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Master Mechanic	11190	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Lead Miner	25368	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Loader Operator	14000	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Mechanic/Welder	71408	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Miner	187588	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Office Administrator		20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Operator G2 Plant Operator	14000	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Operating Engineer	14000	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Segment Carrier Operator	143920	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Shaft Crane Operator	48176	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Shifter	25368	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	TBM Operator	40856	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Toplander	48176	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Truck Driver	8553	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Utility Truck Operator	22787	20	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-48					
SF - Central - 49	Bottomlander	1665	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Bullgang Foreman	180	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Bullgang Laborer	760	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Crane Oiler	815	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Electrician	2480	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Flat Truck Driver	80	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 49	Forklift Operator	950	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Heavy Duty Mechanic Welder	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Hyd Crane Operator	975	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Lead Miner	1665	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Master Mechanic	300	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Mechanic/Welder	2560	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Miner	8260	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Shaft Crane Operator	1765	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Shifter	1665	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Toplander	1665	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Utility Truck Operator	800	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-49					
SF - Central - 50	Carpenter Apprentice	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 50	Carpenter Foreman	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 50	Electrical Foreman	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 50	Electrician Journeyman	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 50	Iron Worker Journeyman Rebar/Stru	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 50	Laborer G2 General	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 50	Millwright	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 50	Operator G2a Cranes 45 to 100 t	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 50	Teamster G3 Boom Truck	200	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-50					
SF - Central - 51	Carpenter Apprentice	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 51	Carpenter Foreman	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 51	Electrical Foreman	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 51	Electrician Journeyman	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 51	Iron Worker Journeyman Rebar/Stru	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 51	Laborer G2 General	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 51	Millwright	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 51	Operator G2a Cranes 45 to 100 t	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 51	Teamster G3 Boom Truck	200	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-51					
SF - Central - 52	Laborer G4 Clean-up	35196.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 52	OPERATING ENGINEER FOREMAN	17598.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 52	Operator G2 Micro Tunnel	2883	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 52	Operator G2 Plant Operator	14715.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 52	Operator G3 Loader >4cy	35196.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 52	Operator G4 Loader <4.1cy	5766	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 52	Operator G5 Concrete Pump	12332.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 52	Operator G7 Oiler	5265.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 52	Operator G8a Skidsteer <Bobcat 743	12332.3	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-52					
SF - Central - 53	Laborer G2 General	404	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 53	OPERATING ENGINEER FOREMAN	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 53	Operator G3 BH-Loader>3/4cy	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 53	Operator G4 Grade Check	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 53	Operator G5 Asphalt Roller	202	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 53	Operator G5 Paver	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 53	Teamster G2 Hwy ED 6-8cy, Water<7	50.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-53					
SF - Central - 54	Laborer G2 General	404	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 54	OPERATING ENGINEER FOREMAN	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 54	Operator G3 BH-Loader>3/4cy	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 54	Operator G4 Grade Check	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 54	Operator G5 Asphalt Roller	202	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 54	Operator G5 Paver	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 54	Teamster G2 Hwy ED 6-8cy, Water<7	50.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-54					
SF - Central - 55	Laborer G2 Concrete Laborer	600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Laborer G2 General	280	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Laborer G3 Flagman	880	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	OPERATING ENGINEER FOREMAN	720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Operator G2 Excavator 3.5 to 7.0 cy	1200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Operator G2 Finish Blade	210	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Operator G3 Loader >4cy	40	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Operator G4 Dozer & Push Cat	3180	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Operator G4 Scraper	2000	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Operator G6 Tractor	640	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Teamster G2 Hwy ED 6-8cy, Water<7	4600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Teamster G4 ED 25-65 Cy	200	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-55					

Marine Inventory for Southern Complex on Byron Tract - Central
Option 1

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Southern Complex on Byron Tract - Central
Option 1

Code	# day	Locomotive Type	From Depot Site	Delivery Depot	Rail Cars	Rail Cars/Day	Main Railroad	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
SF - Central - 5	21	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 7	500	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 9	225	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 10	85	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 11	296	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 12	731	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 14	683	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 15	241	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 16	163	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 18	31	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 19	354	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 20	754	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 22	246	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 23	202	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 24	181	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 26	1355	Cement, Aggregate, Sand, Flyash, B	Stockton	Southern Complex	2398	1.8	UPRR						
SF - Central - 27	1748	Soil Material	Stockton	Southern Complex	24052	13.8	UPRR						
SF - Central - 29	275	Riprap	Stockton	Southern Complex	3443	12.5	UPRR						
SF - Central - 30	185	Cement, Aggregate, Sand, Flyash, R	Stockton	Southern Complex	390	2.1	UPRR						
SF - Central - 31	646	Cement, Aggregate, Sand, Flyash, B	Stockton	Southern Complex	1532	2.4	UPRR						
SF - Central - 34	771	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 35	90	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 37	36	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 39	277	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 41	38	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 44	93	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						

Helicopter Inventory for Southern Complex on Byron Tract - Central Option 1

For 36 new transmission towers along 8.3 miles of new 230 kV line

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
SF - Central 5			2		

Earthmoving/Paving Assumptions for Southern Complex on Byron Tract - Central
Option 1

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
SF - Central - 1		208									
SF - Central - 2		324									
SF - Central - 3		214		90891	425	238663	1115				
SF - Central - 4		208		48121	231	100678	484			1403505	6748
SF - Central - 5	32	21	1.5			15000	714				
SF - Central - 9		225		1000	4	5000	22				
SF - Central - 10		85				4450	52				
SF - Central - 11		296		71241	241	29230	99				
SF - Central - 12		731		162648	223						
SF - Central - 13		876		72637	83	4793	5				
SF - Central - 14		683		117000	171		0				
SF - Central - 15B		366		199100	544	23424	64				
SF - Central - 16		163				4517	28				
SF - Central - 17		34				680	20				
SF - Central - 18		31				1511	49				
SF - Central - 19		354				16769	47			224118	633
SF - Central - 20		754					0				
SF - Central - 22		246					0				
SF - Central - 23		202		150974	747	185339	918			126720	627
SF - Central - 24	921	181	5.1				0				
SF - Central - 25		445		2799678	6291	70220	158				
SF - Central - 26		1355				9774800	7214				
SF - Central - 27		1748									
SF - Central - 28		2191									
SF - Central - 29	3	275	0.01		0	344210	1252				
SF - Central - 30		185		61000	330	102835	556				
SF - Central - 31		646		154044	238	2000	3				
SF - Central - 32		137									
SF - Central - 33		263									
SF - Central - 34		771		109027	141	135982	176				
SF - Central - 35		90									
SF - Central - 36		343									
SF - Central - 37		36									
SF - Central - 38		952		109027	115	135982	143				
SF - Central - 39		277									
SF - Central - 40		418									
SF - Central - 42		1729				153677	89				
SF - Central - 43		240		95485	398						
SF - Central - 44		93		142728	1535						
SF - Central - 45		166									
SF - Central - 46		446		95485	214	154676	347				
SF - Central - 48		1349		6069	4						
SF - Central - 49		35									
SF - Central - 50		41									
SF - Central - 51		43									
SF - Central - 53		11								431730	39248
SF - Central - 54		12								431730	35978
SF - Central - 55	376	240	1.6			983488	4098				

**Demolition Assumptions for Southern Complex on Byron Tract - Central
Option 1**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

**Construction Schedule for Southern Complex West of Byron Highway - South Delta Conv - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B**

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Mobilization - Gravel Bedding, Formwork, Rebar, Concrete for Slabs	SDC - Central & Eastern - 1	6/19/2030	8/22/2030	46	5	10
Roads, Utilities, Construction Office, Shops, Other Structures	SDC - Central & Eastern - 2	6/25/2030	10/11/2030	80	5	10
Utility, Facility, and Plant Operations	SDC - Central & Eastern - 3	10/14/2030	3/17/2037	1675	5	10
Tunnel Outlet Excavation & Cofferdam	SDC - Central & Eastern - 4	5/8/2030	5/8/2031	261	5	10
South Delta Tunnel Outlet Structure Excavation, Sheet Piles, Forms	SDC - Central & Eastern - 5	5/8/2030	5/6/2031	259	5	10
Reception Shaft - East: Slurry Wall and Guide Wall	SDC - Central & Eastern - 6	5/7/2031	9/12/2031	93	5	10
Reception Shaft - East: Tremie Seal	SDC - Central & Eastern - 7	9/8/2031	9/16/2031	9	7	24
Reception Shaft - East: Dewater Shaft	SDC - Central & Eastern - 8	9/22/2031	9/26/2031	5	5	10
Reception Shaft - East: Tunnel Cradle	SDC - Central & Eastern - 9	9/29/2031	10/6/2031	5	5	10
Reception Shaft - East: Slurry Wall Breakout	SDC - Central & Eastern - 10	10/7/2031	10/31/2031	19	5	10
Reception Shaft - East: Assemble Shaft with Concrete	SDC - Central & Eastern - 11	10/27/2031	1/6/2032	52	5	10
Reception Shaft - West: Slurry Wall and Guide Wall	SDC - Central & Eastern - 12	7/10/2031	12/9/2031	111	5	10
Reception Shaft - West: Tremie Seal	SDC - Central & Eastern - 13	2/6/2032	2/16/2032	10	7	24
Reception Shaft - West: Dewater Shaft	SDC - Central & Eastern - 14	2/20/2032	2/26/2032	5	5	10
Reception Shaft - West: Tunnel Cradle	SDC - Central & Eastern - 15	2/27/2032	3/5/2032	6	5	10
Reception Shaft - West: Slurry Wall Breakout	SDC - Central & Eastern - 16	3/8/2032	4/1/2032	19	5	10
Reception Shaft - West: Assemble Shaft with Concrete	SDC - Central & Eastern - 17	4/2/2032	6/14/2032	54	5	10
Calif Aqueduct Div Channel Excavation and Earthwork	SDC - Central & Eastern - 18	5/8/2030	10/18/2032	640	5	10
Calif Aqueduct Control Structure: Cofferdam	SDC - Central & Eastern - 19	2/3/2031	1/22/2032	350	5	10
Calif Aqueduct Control Structure: Construct Concrete Slabs and Fram	SDC - Central & Eastern - 20	1/8/2032	12/24/2032	250	5	10
Calif Aqueduct Control Structure: Remove Cofferdam	SDC - Central & Eastern - 21	1/25/2033	4/15/2033	59	5	10
Calif Aqueduct Control Structure: Construct Walls	SDC - Central & Eastern - 22	5/25/2032	9/27/2032	90	5	10
Calif Aqueduct Control Structure: Weir and Bridge	SDC - Central & Eastern - 23	9/28/2032	12/3/2032	49	5	10
Calif Aqueduct Control Structure: Gates and Stoplogs	SDC - Central & Eastern - 24	12/3/2032	4/21/2033	100	5	10
South Delta Tunnel Outlet: Excavation	SDC - Central & Eastern - 25	4/24/2034	4/13/2035	253	5	10
South Delta Tunnel Outlet Structure: Construct Slabs and Walls	SDC - Central & Eastern - 26	4/24/2034	7/30/2036	592	5	10
South Delta Tunnel Outlet Building: Construct Slabs and Walls	SDC - Central & Eastern - 27	6/27/2035	1/6/2037	660	5	10
South Delta Tunnel Outlet Building: Gates and Stoplogs	SDC - Central & Eastern - 28	4/2/2036	1/16/2037	208	5	10
South Delta Tunnel Outlet Building: Remove Cofferdam and Construc	SDC - Central & Eastern - 29	1/6/2037	3/17/2037	51	5	10
Southern Complex West of Byron Highway: Site Restoration	SDC - Central & Eastern - 30	1/27/2037	5/4/2037	70	5	10

Total Site Acres

150

Vehicle Inventory for Southern Complex West of Byron Highway - South Delta Conv - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
SDC - Central & Eastern - 1	CAT D3 LGP, Dozer	Crawler Tractor	33.4	46	0.7	Diesel or Hybrid	76	0.43		
SDC - Central & Eastern - 1	CAT 950 H Wheel Loader	Rubber Tired Loaders	33.4	46	0.7	Diesel or Hybrid	130	0.36		
SDC - Central & Eastern - 1	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	33.4	46	0.7	Diesel	158	0.38		
SDC - Central & Eastern - 2	CAT D6LGPDozer w winch	Crawler Tractor	100	80	1.3	Diesel or Hybrid	179	0.43		
SDC - Central & Eastern - 2	CAT 14 M	Grader	100	80	1.3	Diesel	274	0.41		
SDC - Central & Eastern - 2	Water Pump, 4" Diesel	Pumps	100	80	1.3	Diesel	10	0.74		
SDC - Central & Eastern - 2	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	100	80	1.3	Diesel	158	0.38		
SDC - Central & Eastern - 2	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	700	80	8.8	Diesel	110	0.36		
SDC - Central & Eastern - 2	CAT 950 H Wheel Loader	Rubber Tired Loaders	700	80	8.8	Diesel or Hybrid	130	0.36		
SDC - Central & Eastern - 2	Compactor, Plate, 22" w x 35"	Plate Compactors	350	80	4.4	Diesel	8.5	0.43		
SDC - Central & Eastern - 2	Air Compressor 185 cfm	Air Compressor	563.36	80	7.0	Diesel Tier 4	49	0.48		
SDC - Central & Eastern - 2	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	281.68	80	3.5	Diesel	75	0.31		
SDC - Central & Eastern - 2	Boom Truck, 12.5 Tn Boom	Crane	281.68	80	3.5	Diesel or Hybrid	100	0.29		
SDC - Central & Eastern - 3	Disk, Towed	Off Highway Tractor	1449	1675	0.9	Diesel	140	0.44		
SDC - Central & Eastern - 3	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	1449	1675	0.9	Diesel	80	0.44		
SDC - Central & Eastern - 3	CAT LOADER/HOE 416 E	Rubber Tired Loaders	11949	1675	7.1	Diesel	78	0.36		
SDC - Central & Eastern - 3	Air Compressor 185 cfm	Air Compressor	120	1675	0.1	Diesel Tier 4	49	0.48		
SDC - Central & Eastern - 3	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	120	1675	0.1	Diesel	75	0.31		
SDC - Central & Eastern - 3	Grove RT Crane 30T	Crane	120	1675	0.1	Diesel	160	0.29		
SDC - Central & Eastern - 3	Grove RT Crane 80T, 275hp	Crane	120	1675	0.1	Diesel	275	0.29		
SDC - Central & Eastern - 3	Boom Truck, 12.5 Tn Boom	Crane	60	1675	0.0	Diesel or Hybrid	100	0.29		
SDC - Central & Eastern - 3	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	540	1675	0.3	Diesel	158	0.38		
SDC - Central & Eastern - 3	Grove RT Crane 55T, 247 hp	Crane	70.65	1675	0.0	Diesel	247	0.29		
SDC - Central & Eastern - 3	Portable, 90 Kw, Diesel 158hp	Welders	35.33	1675	0.0	Diesel Tier 4	158	0.45		
SDC - Central & Eastern - 3	400A Diesel Welder, Trailer Mounted	Welders	35.33	1675	0.0	Diesel	22	0.45		
SDC - Central & Eastern - 4	CAT D6LGPDozer w winch	Crawler Tractor	14817.42	261	56.8	Diesel or Hybrid	179	0.43		
SDC - Central & Eastern - 4	400A Diesel Welder, Trailer Mounted	Welders	1059.96	261	4.1	Diesel	22	0.45		
SDC - Central & Eastern - 4	Air Compressor 375 cfm	Air Compressor	1059.96	261	4.1	Diesel Tier 4	122	0.48		
SDC - Central & Eastern - 4	CAT 14 M	Grader	81.25	261	0.3	Diesel	274	0.41		
SDC - Central & Eastern - 4	CAT D3 LGP, Dozer	Crawler Tractor	8613	261	33	Diesel or Hybrid	76	0.43		
SDC - Central & Eastern - 4	Grove RT Crane 55T, 247 hp	Crane	1059.96	261	4.1	Diesel	247	0.29		
SDC - Central & Eastern - 4	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	4310.27	261	16.5	Diesel	384	0.38		
SDC - Central & Eastern - 4	Manitowoc 555 150T, 250' Boom	Crane	1059.6	261	4.1	Diesel	760	0.29		
SDC - Central & Eastern - 4	Portable, 20 Kw, Diesel, 36HP	Welders	1059.6	261	4.1	Diesel Tier 4	36	0.45		
SDC - Central & Eastern - 4	Vibro Driver/Extractor V20B	Other Construction Eq	1059.96	261	4.1	Diesel	325	0.42		
SDC - Central & Eastern - 4	Water Pump, 3" Gas, Diaphragm	Pumps	1300	261	5.0	Gasoline	10	0.74		
SDC - Central & Eastern - 4	Well Drill	Bore/Drill Rigs	450	261	1.7	Diesel	136	0.5		
SDC - Central & Eastern - 5	400A Diesel Welder, Trailer Mounted	Welders	7564	259	29.2	Diesel	22	0.45		
SDC - Central & Eastern - 5	Air Compressor 375 cfm	Air Compressor	7564	259	29.2	Diesel Tier 4	122	0.48		
SDC - Central & Eastern - 5	CAT 14 M	Grader	2644.18	259	10.2	Diesel	274	0.41		
SDC - Central & Eastern - 5	Cat 613 C Self Loading Scraper	Scraper	268.66	259	1.0	Diesel	187	0.48		
SDC - Central & Eastern - 5	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	89.55	259	0.3	Diesel	158	0.38		
SDC - Central & Eastern - 5	Grove RT Crane 55T, 247 hp	Crane	7564	259	29.2	Diesel	247	0.29		
SDC - Central & Eastern - 5	CAT D6LGPDozer w winch	Crawler Tractor	8013.72	259	30.9	Diesel or Hybrid	179	0.43		
SDC - Central & Eastern - 5	CAT D8Rll, Dozer w winch	Crawler Tractor	2554.63	259	9.9	Diesel	310	0.43		
SDC - Central & Eastern - 5	Disk, Towed	Off Highway Tractor	7702.11	259	29.7	Diesel	140	0.44		
SDC - Central & Eastern - 5	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	66.25	259	0.3	Diesel	384	0.38		
SDC - Central & Eastern - 5	Manitowoc 555 150T, 250' Boom	Crane	7564	259	29.2	Diesel	760	0.29		
SDC - Central & Eastern - 5	Pile Hammer D62-22, Single 165k Ft-LB, Diesel,	Other Construction Eq	7564	259	29.2	Diesel	300	0.42		
SDC - Central & Eastern - 5	Portable, 20 Kw, Diesel, 36HP	Welders	7564	259	29.2	Diesel Tier 4	36	0.45		
SDC - Central & Eastern - 5	Vibro Driver/Extractor V20B	Other Construction Eq	7564	259	29.2	Diesel	325	0.42		
SDC - Central & Eastern - 6	1600 CFM Compressor Diesel	Air Compressor	224	93	2.4	Diesel Tier 4	540	0.74		
SDC - Central & Eastern - 6	250 CFM Compressor Diesel	Air Compressor	19.3	93	0.2	Diesel Tier 3	75	0.74		
SDC - Central & Eastern - 6	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	465.5	93	5.0	Diesel or Hybrid	130	0.36		
SDC - Central & Eastern - 6	CAT Forklift 5,500 LB	Aerial Lift	16	93	0.2	Diesel	63	0.31		
SDC - Central & Eastern - 6	CAT Hyd Excavator 1CY	Excavator	493	93	5.3	Diesel	138	0.38		
SDC - Central & Eastern - 6	Hydraulic 40 Ton Crane	Crane	16	93	0.2	Diesel	300	0.29		
SDC - Central & Eastern - 6	Hydraulic 55 Ton Crane	Crane	448	93	4.8	Diesel	350	0.29		
SDC - Central & Eastern - 6	Hydraulic 9 Ton Crane	Crane	16	93	0.2	Diesel	85	0.29		
SDC - Central & Eastern - 6	Manitowoc 200 Ton Crane	Crane	224	93	2.4	Diesel	760	0.29		
SDC - Central & Eastern - 6	Manitowoc 777 200 Ton Crane	Crane	449	93	4.8	Diesel	760	0.29		
SDC - Central & Eastern - 6	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	224	93	2	Diesel	8	0.56		
SDC - Central & Eastern - 6	Slurry Wall Techniwell	Pumps	224	93	2	Diesel	500	0.74		
SDC - Central & Eastern - 7	Hydraulic 25 Ton Crane	Crane	76.47	9	8.5	Diesel	100	0.29		
SDC - Central & Eastern - 7	Hydraulic 40 Ton Crane	Crane	36	9	4.0	Diesel	300	0.29		
SDC - Central & Eastern - 7	Manitowoc 777 200 Ton Crane	Crane	111	9	12.3	Diesel	760	0.29		
SDC - Central & Eastern - 8	Dewater Pump 6"	Pump	400	5	80	Diesel	50	0.74		
SDC - Central & Eastern - 8	150 KW Diesel Generator	Generator	100	5	20	Diesel Tier 4	183	0.74		
SDC - Central & Eastern - 8	Hydraulic 15 Ton Crane	Crane	100	5	20	Diesel	100	0.29		
SDC - Central & Eastern - 9	250 CFM Compressor Diesel	Air Compressor	8.2	5	1.6	Diesel Tier 3	75	0.74		
SDC - Central & Eastern - 9	Manitowoc 777 200 Ton Crane	Crane	35.53	5	7.1	Diesel	760	0.29		
SDC - Central & Eastern - 10	250 CFM Compressor Diesel	Air Compressor	235.5	19	12.4	Diesel Tier 3	75	0.74		
SDC - Central & Eastern - 10	Manitowoc 777 200 Ton Crane	Crane	235.5	19	12.4	Diesel	760	0.29		
SDC - Central & Eastern - 11	250 CFM Compressor Diesel	Air Compressor	357	52	6.9	Diesel Tier 3	75	0.74		
SDC - Central & Eastern - 11	Manitowoc 777 200 Ton Crane	Crane	102	52	2.0	Diesel	760	0.29		
SDC - Central & Eastern - 11	Manitowoc 999-275 Ton Crane	Crane	357	52	6.9	Diesel	900	0.29		
SDC - Central & Eastern - 12	1600 CFM Compressor Diesel	Air Compressor	224	111	2.0	Diesel Tier 4	540	0.74		
SDC - Central & Eastern - 12	250 CFM Compressor Diesel	Air Compressor	19.3	111	0.2	Diesel Tier 3	75	0.74		
SDC - Central & Eastern - 12	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	465.5	111	4.2	Diesel or Hybrid	130	0.36		
SDC - Central & Eastern - 12	CAT Forklift 5,500 LB	Aerial Lift	16	111	0.1	Diesel	63	0.31		
SDC - Central & Eastern - 12	CAT Hyd Excavator 1CY	Excavator	493	111	4.4	Diesel	138	0.38		
SDC - Central & Eastern - 12	Hydraulic 40 Ton Crane	Crane	16	111	0.1	Diesel	300	0.29		
SDC - Central & Eastern - 12	Hydraulic 55 Ton Crane	Crane	448	111	4.0	Diesel	350	0.29		
SDC - Central & Eastern - 12	Hydraulic 9 Ton Crane	Crane	16	111	0.1	Diesel	85	0.29		
SDC - Central & Eastern - 12	Manitowoc 200 Ton Crane	Crane	224	111	2.0	Diesel	760	0.29		
SDC - Central & Eastern - 12	Manitowoc 777 200 Ton Crane	Crane	449	111	4.0	Diesel	760	0.29		

SDC - Central & Eastern - 12	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	224	111	2	Diesel	8	0.56
SDC - Central & Eastern - 12	Slurry Wall Techniwell	Pumps	224	111	2	Diesel	500	0.74
SDC - Central & Eastern - 13	Hydraulic 25 Ton Crane	Crane	76.47	10	7.6	Diesel	100	0.29
SDC - Central & Eastern - 13	Hydraulic 40 Ton Crane	Crane	36	10	3.6	Diesel	300	0.29
SDC - Central & Eastern - 13	Manitowoc 777 200 Ton Crane	Crane	111	10	11.1	Diesel	760	0.29
SDC - Central & Eastern - 14	Dewater Pump 6"	Pump	400	5	80	Diesel	50	0.74
SDC - Central & Eastern - 14	150 KW Diesel Generator	Generator	100	5	20	Diesel Tier 4	183	0.74
SDC - Central & Eastern - 14	Hydraulic 15 Ton Crane	Crane	100	5	20	Diesel	100	0.29
SDC - Central & Eastern - 15	250 CFM Compressor Diesel	Air Compressor	8.2	6	1.4	Diesel Tier 3	75	0.74
SDC - Central & Eastern - 15	Manitowoc 777 200 Ton Crane	Crane	35.53	6	5.9	Diesel	760	0.29
SDC - Central & Eastern - 16	250 CFM Compressor Diesel	Air Compressor	422.53	19	22.2	Diesel Tier 3	75	0.74
SDC - Central & Eastern - 16	Manitowoc 777 200 Ton Crane	Crane	422.53	19	22.2	Diesel	760	0.29
SDC - Central & Eastern - 17	250 CFM Compressor Diesel	Air Compressor	495.6	54	9.2	Diesel Tier 3	75	0.74
SDC - Central & Eastern - 17	Manitowoc 777 200 Ton Crane	Crane	102	54	1.9	Diesel	760	0.29
SDC - Central & Eastern - 17	Manitowoc 999-275 Ton Crane	Crane	393.6	54	7.3	Diesel	900	0.29
SDC - Central & Eastern - 18	Boom Truck, 12.5 Tn Boom	Crane	650	640	1.0	Diesel or Hybrid	100	0.29
SDC - Central & Eastern - 18	CAT 14 M	Grader	1861.09	640	2.9	Diesel	274	0.41
SDC - Central & Eastern - 18	CAT 12 M	Grader	1498.14	640	2.3	Diesel	173	0.41
SDC - Central & Eastern - 18	Cat 613 C Self Loading Scraper	Scraper	179.1	640	0.3	Diesel	187	0.48
SDC - Central & Eastern - 18	CAT 815, Roller	Roller	55.8	640	0.1	Diesel	170	0.38
SDC - Central & Eastern - 18	CAT 962 H Wheel Loader	Rubber Tired Loader	79.71	640	0.1	Diesel	230	0.36
SDC - Central & Eastern - 18	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	59.7	640	0.1	Diesel	158	0.38
SDC - Central & Eastern - 18	CAT CS-74, Roller, 17 tn, 156 HP	Rollers	79.71	640	0.1	Diesel	156	0.38
SDC - Central & Eastern - 18	CAT D3 LGP, Dozer	Crawler Tractor	3550.03	640	5.5	Diesel or Hybrid	76	0.43
SDC - Central & Eastern - 18	CAT D6LGPDozer w winch	Crawler Tractor	21699.85	640	33.9	Diesel or Hybrid	179	0.43
SDC - Central & Eastern - 18	CAT D8Rii, Dozer w winch	Crawler Tractor	1586.16	640	2.5	Diesel	310	0.43
SDC - Central & Eastern - 18	Disk, Towed	Off Highway Tractor	4909.54	640	7.7	Diesel	140	0.44
SDC - Central & Eastern - 18	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	5992.53	640	9.4	Diesel	345	0.38
SDC - Central & Eastern - 18	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	5985.95	640	9.4	Diesel	384	0.38
SDC - Central & Eastern - 18	Manitowoc 555 150T, 250' Boom	Crane	250	640	0.4	Diesel	760	0.29
SDC - Central & Eastern - 18	Water Pump, 4" Diesel	Pumps	79.71	640	0.1	Diesel	10	0.74
SDC - Central & Eastern - 19	400A Diesel Welder, Trailer Mounted	Welders	1904.96	350	5.4	Diesel	22	0.45
SDC - Central & Eastern - 19	Air Compressor 375 cfm	Air Compressor	1904.96	350	5.4	Diesel Tier 4	122	0.48
SDC - Central & Eastern - 19	CAT 12 M	Grader	148.8	350	0.4	Diesel	173	0.41
SDC - Central & Eastern - 19	CAT 14 M	Grader	118.67	350	0.3	Diesel	274	0.41
SDC - Central & Eastern - 19	CAT 973 Track Loader, 4.2 cy, 263hp	Skid Loader	665.3	350	1.9	Diesel or Hybrid	210	0.37
SDC - Central & Eastern - 19	CAT D6LGPDozer w winch	Crawler Tractor	1836.67	350	5.2	Diesel or Hybrid	179	0.43
SDC - Central & Eastern - 19	CAT D8Rii, Dozer w winch	Crawler Tractor	118.67	350	0.3	Diesel	310	0.43
SDC - Central & Eastern - 19	Disk, Towed	Off Highway Tractor	367.3	350	1.0	Diesel	140	0.44
SDC - Central & Eastern - 19	Grove RT Crane 55T, 247 hp	Crane	2570.29	350	7.3	Diesel	247	0.29
SDC - Central & Eastern - 19	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	955.16	350	2.7	Diesel	345	0.38
SDC - Central & Eastern - 19	Manitowoc 555 150T, 250' Boom	Crane	2570.29	350	7.3	Diesel	760	0.29
SDC - Central & Eastern - 19	Pile Hammer D62-22, Single 165k Ft-LB, Diesel,	Other Construction Eq	1904.96	350	5.4	Diesel	300	0.42
SDC - Central & Eastern - 19	Portable, 20 Kw, Diesel, 36HP	Welders	1904.96	350	5.4	Diesel Tier 4	36	0.45
SDC - Central & Eastern - 19	Pile Hammer,Vulcan, Single 50k Ft-LB w Con	Other Construction Eq	665.33	350	1.9	Diesel	210	0.42
SDC - Central & Eastern - 19	Vibro Driver/Extractor V20B	Other Construction Eq	1904.96	350	5.4	Diesel	325	0.42
SDC - Central & Eastern - 19	Well Drill	Bore/Drill Rigs	700	350	2.0	Diesel	136	0.5
SDC - Central & Eastern - 20	400A Diesel Welder, Trailer Mounted	Welders	3012.13	250	12.0	Diesel	22	0.45
SDC - Central & Eastern - 20	Air Compressor 375 cfm	Air Compressor	490.14	250	2.0	Diesel Tier 4	122	0.48
SDC - Central & Eastern - 20	Air Compressor 1600 cfm	Air Compressor	1506.08	250	6.0	Diesel Tier 4	540	0.48
SDC - Central & Eastern - 20	Boom Truck, 12.5 Tn Boom	Crane	462	250	1.8	Diesel or Hybrid	100	0.29
SDC - Central & Eastern - 20	CAT 14 M	Grader	108.9	250	0.4	Diesel	274	0.41
SDC - Central & Eastern - 20	CAT 311, 0.69 cy, 70 hp	Excavator	80.66	250	0.3	Diesel	70	0.38
SDC - Central & Eastern - 20	CAT 320D, 1.56 cy, 153 hp	Excavator	158.77	250	0.6	Diesel	138	0.38
SDC - Central & Eastern - 20	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	270.19	250	1.1	Diesel or Hybrid	130	0.36
SDC - Central & Eastern - 20	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	108.9	250	0.4	Diesel	158	0.38
SDC - Central & Eastern - 20	CAT D6LGPDozer w winch	Crawler Tractor	653.66	250	2.6	Diesel or Hybrid	179	0.43
SDC - Central & Eastern - 20	Compactor, Plate, 22"x 35"	Plate Compactor	1166.2	250	4.7	Diesel	8.5	0.43
SDC - Central & Eastern - 20	Compactor, Trench Roller, Vib 32"xw		534.47	250	2.1	Diesel	20	0.38
SDC - Central & Eastern - 20	Concrete Vibrator, 2"	Other Construction Eq	10612.8	250	42.5	Gasoline	3	0.42
SDC - Central & Eastern - 20	Grove RT Crane 55T, 247 hp	Crane	1248.71	250	5.0	Diesel	247	0.29
SDC - Central & Eastern - 20	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	534.47	250	2.1	Diesel	345	0.38
SDC - Central & Eastern - 20	Manitowoc 555 150T, 250' Boom	Crane	1273.74	250	5.1	Diesel	760	0.29
SDC - Central & Eastern - 20	Manitowoc 999-275 Ton Crane	Crane	232.34	250	0.9	Diesel	900	0.29
SDC - Central & Eastern - 20	Portable, 90 Kw, Diesel, 158HP	Welders	1056.08	250	4.2	Diesel Tier 4	158	0.74
SDC - Central & Eastern - 20	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	798.32	250	3.2	Diesel Tier 4	210	0.38
SDC - Central & Eastern - 21	400A Diesel Welder, Trailer Mounted	Welders	396.87	59	6.7	Diesel	22	0.45
SDC - Central & Eastern - 21	Air Compressor 375 cfm	Air Compressor	396.87	59	6.7	Diesel Tier 4	122	0.48
SDC - Central & Eastern - 21	Grove RT Crane 55T, 247 hp	Crane	388.93	59	6.6	Diesel	247	0.29
SDC - Central & Eastern - 21	Manitowoc 555 150T, 250' Boom	Crane	396.87	59	6.7	Diesel	760	0.29
SDC - Central & Eastern - 21	Portable, 20 Kw, Diesel, 36HP	Welders	396.87	59	6.7	Diesel Tier 4	36	0.45
SDC - Central & Eastern - 21	Vibro Driver/Extractor V20B	Other Construction Eq	396.87	59	6.7	Diesel	325	0.42
SDC - Central & Eastern - 22	400A Diesel Welder, Trailer Mounted	Welders	1333.43	90	14.8	Diesel	22	0.45
SDC - Central & Eastern - 22	Air Compressor 375 cfm	Air Compressor	6.35	90	0.1	Diesel Tier 4	122	0.48
SDC - Central & Eastern - 22	Air Compressor 1600 cfm	Air Compressor	666.71	90	7.4	Diesel Tier 4	540	0.48
SDC - Central & Eastern - 22	Concrete Vibrator, 2"	Other Construction Eq	5333.71	90	59.3	Gasoline	3	0.42
SDC - Central & Eastern - 22	Manitowoc 555 150T, 250' Boom	Crane	666.71	90	7.4	Diesel	760	0.29
SDC - Central & Eastern - 22	Portable, 90 Kw, Diesel, 158HP	Welders	666.71	90	7.4	Diesel Tier 4	158	0.45
SDC - Central & Eastern - 22	Water Pump, 4" Diesel	Pumps	666.71	90	7.4	Diesel	10	0.74
SDC - Central & Eastern - 23	400A Diesel Welder, Trailer Mounted	Welders	58.13	49	1.2	Diesel	22	0.45
SDC - Central & Eastern - 23	Air Compressor 1600 cfm	Air Compressor	29.07	49	0.6	Diesel Tier 4	540	0.48
SDC - Central & Eastern - 23	Concrete Vibrator, 2"	Other Construction Eq	252.27	49	5.1	Gasoline	3	0.42
SDC - Central & Eastern - 23	Manitowoc 555 150T, 250' Boom	Crane	29.07	49	0.6	Diesel	760	0.29
SDC - Central & Eastern - 23	Portable, 90 Kw, Diesel, 158HP	Welders	29.07	49	0.6	Diesel Tier 4	158	0.45
SDC - Central & Eastern - 23	Water Pump, 4" Diesel	Pumps	29.07	49	0.6	Diesel	10	0.74
SDC - Central & Eastern - 24	400A Diesel Welder, Trailer Mounted	Welders	1241	100	12.4	Diesel	22	0.45
SDC - Central & Eastern - 24	Grove RT Crane 55T, 247 hp	Crane	368	100	3.7	Diesel	247	0.29
SDC - Central & Eastern - 25	CAT D6LGPDozer w winch	Crawler Tractor	653.66	253	2.6	Diesel or Hybrid	179	0.43
SDC - Central & Eastern - 25	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	5985.95	253	23.7	Diesel	384	0.38

SDC - Central & Eastern - 26	400A Diesel Welder, Trailer Mounted	Welders	2837.41	592	4.8	Diesel	22	0.45
SDC - Central & Eastern - 26	Air Compressor 1600 cfm	Air Compressor	630.78	592	1.1	Diesel Tier 4	540	0.48
SDC - Central & Eastern - 26	Air Compressor 375 cfm	Air Compressor	1575.83	592	2.7	Diesel Tier 4	122	0.48
SDC - Central & Eastern - 26	CAT 12 M	Grader	496.81	592	0.8	Diesel	173	0.41
SDC - Central & Eastern - 26	CAT 311, 0.69 cy, 70 hp	Excavator	24.3	592	0.0	Diesel	70	0.38
SDC - Central & Eastern - 26	CAT 320D, 1.56 cy, 153 hp	Excavator	79.39	592	0.1	Diesel	138	0.38
SDC - Central & Eastern - 26	CAT 950 H Wheel Loader	Rubber Tired Loaders	91.54	592	0.2	Diesel or Hybrid	130	0.36
SDC - Central & Eastern - 26	CAT 973 Track Loader, 4.2 cy, 263hp	Skid Loader	605.33	592	1.0	Diesel or Hybrid	210	0.37
SDC - Central & Eastern - 26	CAT D6LGPDozer w winch	Crawler Tractor	4396.04	592	7.4	Diesel or Hybrid	179	0.43
SDC - Central & Eastern - 26	Compactor, Plate, 22" w x 35"	Plate Compactors	7274.98	592	12.3	Diesel	8.5	0.43
SDC - Central & Eastern - 26	Compactor, Trench Roller, Vib 32" w	Rollers	2408.79	592	4.1	Diesel	20	0.38
SDC - Central & Eastern - 26	Concrete Vibrator, 2"	Other Construction Eq	4040.17	592	6.8	Gasoline	3	0.42
SDC - Central & Eastern - 26	Grove RT Crane 55T, 247 hp	Crane	2149.65	592	3.6	Diesel	247	0.29
SDC - Central & Eastern - 26	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	1987.25	592	3.4	Diesel	345	0.38
SDC - Central & Eastern - 26	Manitowoc 555 150T, 250' Boom	Crane	2374.06	592	4.0	Diesel	760	0.29
SDC - Central & Eastern - 26	Manitowoc 999-275 Ton Crane	Crane	437.88	592	0.7	Diesel	900	0.29
SDC - Central & Eastern - 26	Pile Hammer,Vulcan, Single 50k Ft-LB w Con	Other Construction Eq	605.33	592	1.0	Diesel	210	0.42
SDC - Central & Eastern - 26	Portable, 20 Kw, Diesel, 36HP	Welders	630.78	592	1.1	Diesel Tier 4	36	0.45
SDC - Central & Eastern - 26	Vibro Driver/Extractor V20B	Other Construction Eq	1575.83	592	2.7	Diesel	325	0.42
SDC - Central & Eastern - 27	400A Diesel Welder, Trailer Mounted	Welders	9126.03	660	13.8	Diesel	22	0.45
SDC - Central & Eastern - 27	Air Compressor 1600 cfm	Air Compressor	4563.02	660	6.9	Diesel Tier 4	540	0.48
SDC - Central & Eastern - 27	Air Compressor 375 cfm	Air Compressor	1136.48	660	1.7	Diesel Tier 4	122	0.48
SDC - Central & Eastern - 27	Concrete Vibrator, 2"	Other Construction Eq	33806.18	660	51.2	Gasoline	3	0.42
SDC - Central & Eastern - 27	Manitowoc 555 150T, 250' Boom	Crane	4563.02	660	6.9	Diesel	760	0.29
SDC - Central & Eastern - 27	Portable, 90 Kw, Diesel, 158HP	Welders	4563.02	660	6.9	Diesel Tier 4	158	0.45
SDC - Central & Eastern - 28	400A Diesel Welder, Trailer Mounted	Welders	3076.89	208	14.8	Diesel	22	0.45
SDC - Central & Eastern - 28	Air Compressor 185 cfm	Air Compressor	292	208	1.4	Diesel Tier 4	49	0.48
SDC - Central & Eastern - 28	Boom Truck, 12.5 Tn Boom	Crane	408.05	208	2.0	Diesel or Hybrid	100	0.29
SDC - Central & Eastern - 28	CAT IT28H, 10640 LB Tool Carrier	Rubber Tired Loaders	222.22	208	1.1	Diesel	145	0.36
SDC - Central & Eastern - 28	Grove RT Crane 30T	Crane	292	208	1.4	Diesel	160	0.29
SDC - Central & Eastern - 28	Grove RT Crane 80T, 275hp	Crane	761.5	208	3.7	Diesel	275	0.29
SDC - Central & Eastern - 28	Grove RT Crane 15T, 100hp	Crane	116.05	208	0.6	Diesel	100	0.29
SDC - Central & Eastern - 28	Manitowoc 555 150T, 250' Boom	Crane	222.22	208	1.1	Diesel	760	0.29
SDC - Central & Eastern - 28	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	292	208	1.4	Diesel	75	0.31
SDC - Central & Eastern - 29	400A Diesel Welder, Trailer Mounted	Welders	220.83	51	4.3	Diesel	22	0.45
SDC - Central & Eastern - 29	Air Compressor 375 cfm	Air Compressor	220.83	51	4.3	Diesel Tier 4	122	0.48
SDC - Central & Eastern - 29	CAT LOADER/HOE 416 E	Rubber Tired Loaders	180	51	3.5	Diesel	78	0.36
SDC - Central & Eastern - 29	Grove RT Crane 55T, 247 hp	Crane	216.41	51	4.2	Diesel	247	0.29
SDC - Central & Eastern - 29	Manitowoc 555 150T, 250' Boom	Crane	220.83	51	4.3	Diesel	760	0.29
SDC - Central & Eastern - 29	Portable, 20 Kw, Diesel, 36HP	Welders	220.83	51	4.3	Diesel Tier 4	36	0.45
SDC - Central & Eastern - 29	Vibro Driver/Extractor V20B	Other Construction Eq	220.83	51	4.3	Diesel	325	0.42
SDC - Central & Eastern - 30	CAT 12 M	Grader	40	70	0.6	Diesel	173	0.41
SDC - Central & Eastern - 30	CAT 631G Scraper, Conventional	Scraper	240	70	3.4	Diesel	515	0.48
SDC - Central & Eastern - 30	CAT 966 GII Wheel Loader	Rubber Tired Loaders	20	70	0.3	Diesel	286	0.36
SDC - Central & Eastern - 30	CAT D8Rii, Dozer w winch	Crawler Tractor	240	70	3.4	Diesel	310	0.43
SDC - Central & Eastern - 30	CAT D9R, Dozer w ripper	Crawler Tractor	450	70	6.4	Diesel	410	0.43
SDC - Central & Eastern - 30	Disk, Towed	Off Highway Tractor	40	70	0.6	Diesel	140	0.44
SDC - Central & Eastern - 30	Farm Tractor, All Wheel Drive, 285 HP	Off Highway Tractor	110	70	1.6	Diesel	285	0.44
SDC - Central & Eastern - 30	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	20	70	0.3	Diesel	80	0.44

Offroad Equipment (Electric) Inventory for Southern Complex West of Byron Highway - South Delta Conv - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
SDC - Central & Eastern - 3	Water Pump, 4" Electrical, Submersible	21.2	1675	1	0.013
SDC - Central & Eastern - 20	Water Pump, 4" Electrical, Submersible	1273.4	250	1	5.094
SDC - Central & Eastern - 26	Water Pump, 4" Electrical, Submersible	192.9	592	1	0.326
SDC - Central & Eastern - 27	Water Pump, 4" Electrical, Submersible	4563.02	660	1	6.914
SDC - Central & Eastern - 28	Water Pump, 4" Electrical, Submersible	292	208	1	1.404

Electricity for TBM Operations included in the Summary Workbook

Vehicle Inventory for Southern Complex West of Byron Highway - South Delta Conv - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B

Code	Vehicle	Primary Trip Purpose/Location <small>End/Start Location Station or</small>	# day	Vehicle Hours	Hours/Trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency <small>(mpg)</small>
Vehicle Use on Paved Roads -- and Not on Construction Site												
SDC - Central & Eastern - 1	Pickup, 3/4T, 4wd	Materials from Stockton	46	6880.0	1.1	6450	140.2	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline	
SDC - Central & Eastern - 1	Truck' End Dump/ 56-20ty' Hwy	Base Rock from Vernalis	46	58.8	0.7	84	2	South Delta Conveyance to/from Vernalis	21	42	Diesel	
SDC - Central & Eastern - 1	Truck' End Dump/ 56-20ty' Hwy	Gravel from Vernalis	46	466.9	0.7	667	15	South Delta Conveyance to/from Vernalis	21	42	Diesel	
SDC - Central & Eastern - 1	Truck Flatbed 4 T Highway	Materials from Stockton	46	94.2	1.1	88	1.9	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 1	Truck, Flatbed, 10T, Hwy	Tractor, Loader, and Roller from Stockton	1	3.2	1.1	3	3.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 2	Pickup 1/2T 2 WD	Materials from Stockton	80	561.4	1.1	528	6.6	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline	
SDC - Central & Eastern - 2	Pickup, 3/4T, 4wd	Materials from Stockton	80	6100.0	1.1	5719	71.5	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline	
SDC - Central & Eastern - 2	Pickup,concrete, 1/2T, 4wd	Materials from Stockton	80	700.0	1.1	656	8.2	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline	
SDC - Central & Eastern - 2	Truck Flatbed 4 T Highway	Rebar from Livermore	80	2.8	0.6	5	0.1	South Delta Conveyance to/from Livermore	17	34	Diesel	
SDC - Central & Eastern - 2	Truck Flatbed 4 T Highway	Materials from Stockton	80	94.2	1.1	88	1.1	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 2	Truck, Flatbed, 10T, Hwy	Tractor, Crane, and Grader from Stockton	1	3.2	1.1	3	3.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 2	Truck, Flatbed, 10T, Hwy	Truck, Loader, and Roller from Stockton	2	2.1	1.1	2	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 3	Pickup 1/2T 2 WD	Materials from Stockton	1675	51640.0	1.1	48413	28.9	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline	
SDC - Central & Eastern - 3	Pickup, 3/4T, 4wd	Materials from Stockton	1675	7360.0	1.1	6900	4.1	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline	
SDC - Central & Eastern - 3	Truck Flatbed 4 T Highway	Materials from Stockton	1675	6578.0	1.1	6167	3.7	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 3	Trailer, Lowboy, 50T	Materials from Stockton	1675	2760.0	1.1	2588	1.5	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 3	Truck, Tractor, 75000#, 6 x 4	Materials from Stockton	1675	2760.0	1.1	2588	1.5	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 3	Truck' End Dump/ 56-20ty' Hwy	Materials from Stockton	1675	12000.0	1.1	11250	6.7	South Delta Conveyance to/from Twin Cities Complex	32	64	Diesel	
SDC - Central & Eastern - 3	Truck, Flatbed, 10T, Hwy	Materials from Stockton	1675	4535.3	1.1	4252	2.5	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 3	Concrete Transit Mix Truck' 12ty	Concrete from Southern Complex Batch Plant on Byron Tract	1675	212.0	0.2	1272	0.8	South Delta Conveyance to/from Southern Complex Batch Plant on Byron Tract	5	10	Diesel	
SDC - Central & Eastern - 3	Truck' End Dump/ 56-20ty' Hwy	Base Rock from Vernalis	1675	1289.4	0.7	1842	1	South Delta Conveyance to/from Vernalis	21	42	Diesel	
SDC - Central & Eastern - 3	Truck Flatbed 4 T Highway	Materials from Stockton	1675	94.2	1.1	88	0.1	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 3	Truck, Flatbed, 10T, Hwy	Two Tractor, Loader, and three Cranes from Stockton	1	6.4	1.1	6	6.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 4	Pickup 1/2T 2 WD	Materials from Stockton	261	2155.3	1.1	2021	7.7	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline	
SDC - Central & Eastern - 4	Truck' End Dump/ 20-13ty' Hwy	Materials from Stockton	261	325.0	1.1	18861	65.0	South Delta Conveyance to/from Twin Cities Complex	32	64	Diesel	
SDC - Central & Eastern - 4	Truck, Flatbed, 10T, Hwy	Crane and Excavator from Stockton	1	2.1	1.1	2	2.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 4	Truck, Flatbed, 10T, Hwy	Tractor to Stockton	1	1.1	1.1	1	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 5	Pickup 1/2T 2 WD	Materials from Stockton	259	33.1	1.1	31	0.1	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline	
SDC - Central & Eastern - 5	Truck' End Dump/ 56-20ty' Hwy	Base Rock from Vernalis	259	487.9	0.7	697	3	South Delta Conveyance to/from Vernalis	21	42	Diesel	
SDC - Central & Eastern - 5	Truck Flatbed 4 T Highway	Steel from Livermore	259	173.1	0.6	302	1.2	South Delta Conveyance to/from Livermore	17	34	Diesel	
SDC - Central & Eastern - 5	Truck Flatbed 4 T Highway	Materials from Stockton	259	62.6	1.1	59	0.2	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 5	Truck, Flatbed, 10T, Hwy	Scraper and Tractor from Stockton	1	2.1	1.1	2	2.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 5	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	1.1	1.1	1	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 6	Truck, Flatbed, 10T, Hwy	Materials from Stockton	93	16.0	1.1	15	0.2	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 6	Truck Flatbed 4 T Highway	Materials from Stockton	93	12.8	1.1	12	0.1	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 6	Truck Flatbed 4 T Highway	Rebar from Livermore	93	1.1	0.6	2	0.0	South Delta Conveyance to/from Livermore	17	34	Diesel	
SDC - Central & Eastern - 6	Truck Flatbed 4 T Highway	Slurry Wall Bentonite from Sacramento Forklift, Excavator, and five Cranes from Stockton	93	500.5	2.6	195	2.1	South Delta Conveyance to/from Sacramento	77	154	Diesel	
SDC - Central & Eastern - 6	Truck, Flatbed, 10T, Hwy		1	7.5	1.1	7	7.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 7	Truck Flatbed 4 T Highway	Materials from Stockton	9	12.8	1.1	12	1.3	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 7	Concrete Transit Mix Truck' 12ty	Trmae Concrete from Southern Complex Batch Plant on Byron Tract	9	5.5	0.2	33	3.7	South Delta Conveyance to/from Southern Complex Batch Plant on Byron Tract	5	10	Diesel	
SDC - Central & Eastern - 7	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	1.1	1.1	1	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 8	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	1.1	1.1	1	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 9	Truck Flatbed 4 T Highway	Rebar from Livermore	5	0.6	0.6	1	0.2	South Delta Conveyance to/from Livermore	17	34	Diesel	
SDC - Central & Eastern - 10	Truck Flatbed 4 T Highway	Rebar from Livermore	19	2.3	0.6	4	0.2	South Delta Conveyance to/from Livermore	17	34	Diesel	
SDC - Central & Eastern - 11	Truck Flatbed 4 T Highway	Materials from Stockton	52	12.8	1.1	12	0.2	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 11	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	1.1	1.1	1	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 12	Truck, Flatbed, 10T, Hwy	Materials from Stockton	111	16.0	1.1	15	0.1	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 12	Truck Flatbed 4 T Highway	Materials from Stockton	111	14.9	1.1	14	0.1	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 12	Truck Flatbed 4 T Highway	Rebar from Livermore	111	1.1	0.6	2	0.0	South Delta Conveyance to/from Livermore	17	34	Diesel	
SDC - Central & Eastern - 12	Truck Flatbed 4 T Highway	Slurry Wall Bentonite from Sacramento Forklift, Excavator, and two Cranes to Stockton	111	500.5	2.6	195	1.8	South Delta Conveyance to/from Sacramento	77	154	Diesel	
SDC - Central & Eastern - 12	Truck, Flatbed, 10T, Hwy		1	4.3	1.1	4	4.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 13	Truck Flatbed 4 T Highway	Materials from Stockton	5	14.9	1.1	14	2.8	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 13	Concrete Transit Mix Truck' 12ty	Trmae Concrete from Southern Complex Batch Plant on Byron Tract	5	5.5	0.2	33	6.6	South Delta Conveyance to/from Southern Complex Batch Plant on Byron Tract	5	10	Diesel	
SDC - Central & Eastern - 13	Truck, Flatbed, 10T, Hwy	Two Cranes to Stockton	1	2.1	1.1	2	2.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 14	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	1.1	1.1	1	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 15	Truck Flatbed 4 T Highway	Rebar from Livermore	6	0.6	0.6	1	0.2	South Delta Conveyance to/from Livermore	17	34	Diesel	
SDC - Central & Eastern - 16	Truck Flatbed 4 T Highway	Rebar from Livermore	19	2.3	0.6	4	0.2	South Delta Conveyance to/from Livermore	17	34	Diesel	
SDC - Central & Eastern - 17	Truck Flatbed 4 T Highway	Materials from Stockton	14	14.9	1.1	14	0.3	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 17	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	1.1	1.1	1	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 18	Truck, Flatbed, 10T, Hwy	Materials from Stockton	640	79.7	1.1	75	0.1	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 18	Pickup 1/2T 2 WD	Materials from Stockton	640	8985.5	1.1	8424	13.2	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline	
SDC - Central & Eastern - 18	Pickup, 3/4T, 4wd	Materials from Stockton	640	79.7	1.1	75	0.1	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline	
SDC - Central & Eastern - 18	Truck Flatbed 4 T Highway	Materials from Stockton	640	35.2	1.1	33	0.1	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 18	Truck' End Dump/ 56-20ty' Hwy	Base Rock from Vernalis	640	651	0.7	939	1	South Delta Conveyance to/from Vernalis	21	42	Diesel	
SDC - Central & Eastern - 18	Truck, Flatbed, 10T, Hwy	Scraper to Stockton	1	2.1	1.1	2	2.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 18	Truck, Flatbed, 10T, Hwy	Grader, Excavator, and Crane from Stockton	1	2.1	1.1	2	2.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 18	Truck, Flatbed, 10T, Hwy	Roller, Tractor, and Loader from and to Stockton	2	6.4	1.1	6	3.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 19	Pickup 1/2T 2 WD	Materials from Stockton	350	1620.5	1.1	1519	4.3	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline	
SDC - Central & Eastern - 19	Truck, Flatbed, 10T, Hwy	Materials from Stockton	350	665.3	1.1	624	1.8	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 19	Truck Flatbed 4 T Highway	Steel from Livermore	350	21.5	0.6	38	0.1	South Delta Conveyance to/from Livermore	17	34	Diesel	
SDC - Central & Eastern - 19	Truck Flatbed 4 T Highway	Materials from Stockton	350	496.5	1.1	653	1.9	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 19	Truck, Flatbed, 10T, Hwy	Loader from Stockton	1	1.1	1.1	1	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 20	Concrete Transit Mix Truck' 12ty	Concrete from Southern Complex Batch Plant on Byron Tract	250	2784.9	0.2	16709	66.8	South Delta Conveyance to/from Southern Complex Batch Plant on Byron Tract	5	10	Diesel	
SDC - Central & Eastern - 20	Pickup 1/2T 2 WD	Materials from Stockton	250	1369.0	1.1	1283	5.1	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline	
SDC - Central & Eastern - 20	Pickup, 3/4T, 4wd	Materials from Stockton	250	267.2	1.1	251	1.0	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline	
SDC - Central & Eastern - 20	Truck, Flatbed, 10T, Hwy	Materials from Stockton	250	1161.6	1.1	1089	4.4	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 20	Truck Flatbed 4 T Highway	Materials from Stockton	250	1506.1	1.1	1422	5.6	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 20	Truck Flatbed 4 T Highway	Rebar from Livermore	250	64.0	0.6	113	0.5	South Delta Conveyance to/from Livermore	17	34	Diesel	

SDC - Central & Eastern - 20	Truck/ End Dump/ 35-20cy/ Hwy	Gravel from Vernalis	150	219.1	0.7	313	1	South Delta Conveyance to/from Vernalis	21	42	Diesel
SDC - Central & Eastern - 30	Truck, Flatbed, 10T, Hwy	Roller and Grader to Stockton	1	2.1	1.1	2	2.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 30	Truck, Flatbed, 10T, Hwy	Excavator from Stockton	1	1.1	1.1	1	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 30	Truck, Flatbed, 10T, Hwy	Roller from and to Stockton	2	2.1	1.1	2	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 21	Truck Flatbed 4 T Highway	Steel from Livermore	59	21.5	0.6	38	0.6	South Delta Conveyance to/from Livermore	17	34	Diesel
SDC - Central & Eastern - 20	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	1.1	1.1	1	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 22	Truck Flatbed 4 T Highway	Rebar from Livermore	90	94.1	0.6	166	1.8	South Delta Conveyance to/from Livermore	17	34	Diesel
SDC - Central & Eastern - 22	Truck Flatbed 4 T Highway	Materials from Stockton	90	43.7	1.1	41	0.5	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 23	Truck Flatbed 4 T Highway	Rebar from Livermore	49	2.3	0.6	4	0.1	South Delta Conveyance to/from Livermore	17	34	Diesel
SDC - Central & Eastern - 23	Truck Flatbed 4 T Highway	Materials from Stockton	49	25.6	1.1	24	0.5	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 24	Truck Flatbed 4 T Highway	Materials from Stockton	100	57.8	1.1	54	0.5	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 24	Truck, Flatbed, 10T, Hwy	Materials from Stockton	100	1161.6	1.1	1089	10.9	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 25	Pickup 1/2T 2 WD	Materials from Stockton	253	1959.0	1.1	1837	7.3	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline
SDC - Central & Eastern - 25	Truck Flatbed 4 T Highway	Steel from Livermore	253	23.2	0.6	41	0.2	South Delta Conveyance to/from Livermore	17	34	Diesel
SDC - Central & Eastern - 25	Truck Flatbed 4 T Highway	Materials from Stockton	253	141.9	1.1	133	0.5	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 25	Truck/ End Dump/ 35-20cy/ Hwy	Base Rock from Vernalis	253	83.3	0.7	119	0	South Delta Conveyance to/from Vernalis	21	42	Diesel
SDC - Central & Eastern - 25	Truck, Flatbed, 10T, Hwy	Excavator to Stockton	1	1.1	1.1	1	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 26	Pickup 1/2T 2 WD	Materials from Stockton	592	5105.1	1.1	4786	8.1	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline
SDC - Central & Eastern - 26	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	592	1173.3	0.2	7040	11.9	South Delta Conveyance to/from Southern Complex Batch Plant on Byron Tract	5	10	Diesel
SDC - Central & Eastern - 26	Truck Flatbed 4 T Highway	Materials from Stockton	592	630.8	1.1	v	#VALUE!	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 26	Truck, Flatbed, 10T, Hwy	Materials from Stockton	592	605.3	0.6	33	0.1	South Delta Conveyance to/from Stockton	19	38	Diesel
SDC - Central & Eastern - 26	Truck Flatbed 4 T Highway	Rebar from Livermore	592	10.2	0.6	18	0.0	South Delta Conveyance to/from Livermore	17	34	Diesel
SDC - Central & Eastern - 26	Truck Flatbed 4 T Highway	Steel from Livermore	592	171.1	0.6	302	0.5	South Delta Conveyance to/from Livermore	17	34	Diesel
SDC - Central & Eastern - 26	Truck Flatbed 4 T Highway	Materials from Stockton	592	125.2	1.1	117	0.2	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 26	Truck, Flatbed, 10T, Hwy	Three Excavators, Two Cranes, Tractor, and Two Loaders to Stockton	1	7.5	1.1	7	7.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 27	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	660	8926.4	0.2	5358	81.1	South Delta Conveyance to/from Southern Complex Batch Plant on Byron Tract	5	10	Diesel
SDC - Central & Eastern - 27	Truck Flatbed 4 T Highway	Materials from Stockton	660	4563.0	1.1	4278	6.5	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 27	Truck Flatbed 4 T Highway	Rebar from Livermore	660	331.5	0.6	585	0.9	South Delta Conveyance to/from Livermore	17	34	Diesel
SDC - Central & Eastern - 27	Truck Flatbed 4 T Highway	Materials from Stockton	660	382.9	1.1	359	0.5	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 28	Pickup 1/2T 2 WD	Materials from Stockton	208	292.0	1.1	274	1.3	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline
SDC - Central & Eastern - 28	Truck Flatbed 4 T Highway	Materials from Stockton	208	214.5	1.1	201	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 28	Truck, Flatbed, 10T, Hwy	Materials from Stockton	208	1760.7	1.1	1651	7.9	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 28	Truck, Flatbed, 10T, Hwy	Materials from Stockton	208	1161.6	1.1	1089	5.2	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 28	Truck, Flatbed, 10T, Hwy	Four Cranes to Stockton	1	4.3	1.1	4	4.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 28	Truck, Flatbed, 10T, Hwy	Loader from and to Stockton	2	2.1	1.1	2	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 29	Truck, Flatbed, 10T, Hwy	Materials from Stockton	51	400.8	1.1	33	0.6	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 29	Truck Flatbed 4 T Highway	Steel Fence from Livermore	51	23.2	0.6	41	0.8	South Delta Conveyance to/from Livermore	17	34	Diesel
SDC - Central & Eastern - 29	Truck, Flatbed, 10T, Hwy	Two Cranes and Loader to Stockton	1	3.2	1.1	3	3.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 30	Truck Flatbed 4 T Highway	Materials from Stockton	70	36.3	1.1	34	0.5	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 30	Truck, Flatbed, 10T, Hwy	Grader and Four Tractors to Stockton	1	5.3	1.1	5	5.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 30	Truck, Flatbed, 10T, Hwy	Loader and Scraper from and to Stockton	2	4.3	1.1	4	2.0	South Delta Conveyance to/from Stockton	32	64	Diesel
Vehicle Use on Unpaved/DT Surface (no access roads at											
SDC - Central & Eastern - 1	CAT 740 40T, Articulated End Dump	Dumper	46	66.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	334	Diesel or Hybrid	
SDC - Central & Eastern - 2	Truck, End Dump, 35-13cy, Hwy	Dumper	80	175.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	875	Diesel	
SDC - Central & Eastern - 2	Trailer, Flatbed, 40T	Off-Highway Truck	80	350.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1750	Diesel	
SDC - Central & Eastern - 4	Articulated Rear Dump 22 CY/CAT 730	Dumper	261	3879.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	19396	Diesel or Hybrid	
SDC - Central & Eastern - 5	Articulated Rear Dump 22 CY/CAT 730	Dumper	259	265.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1325	Diesel or Hybrid	
SDC - Central & Eastern - 6	Concrete Pump Truck	Off-Highway Truck	93	672.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3360	Diesel	
SDC - Central & Eastern - 6	CAT 730 Rear Dump	Dumper	93	1399	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	6994	Diesel or Hybrid	
SDC - Central & Eastern - 7	Concrete Pump Truck	Off-Highway Truck	9	76.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	380	Diesel	
SDC - Central & Eastern - 9	Concrete Pump Truck	Off-Highway Truck	5	8.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	41	Diesel	
SDC - Central & Eastern - 11	Concrete Pump Truck	Off-Highway Truck	52	179.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	808	Diesel	
SDC - Central & Eastern - 12	Concrete Pump Truck	Off-Highway Truck	111	448.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2240	Diesel	
SDC - Central & Eastern - 12	CAT 730 Rear Dump	Dumper	111	1399	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	6994	Diesel or Hybrid	
SDC - Central & Eastern - 12	Articulated Rear Dump 22 CY/CAT 730	Dumper	111	224.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1120	Diesel or Hybrid	
SDC - Central & Eastern - 13	Concrete Pump Truck	Off-Highway Truck	10	76.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	380	Diesel	
SDC - Central & Eastern - 15	Concrete Pump Truck	Off-Highway Truck	6	8.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	41	Diesel	
SDC - Central & Eastern - 17	Concrete Pump Truck	Off-Highway Truck	54	248.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1244	Diesel	
SDC - Central & Eastern - 18	Articulated Rear Dump 22 CY/CAT 730	Dumper	640	33106	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	16531	Diesel or Hybrid	
SDC - Central & Eastern - 18	CAT735, 10T, Articulated End Dump	Dumper	640	12848	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	64242	Diesel or Hybrid	
SDC - Central & Eastern - 19	Articulated Rear Dump 22 CY/CAT 730	Dumper	350	3123	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	15613	Diesel or Hybrid	
SDC - Central & Eastern - 19	CAT735, 10T, Articulated End Dump	Dumper	350	463	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2314	Diesel or Hybrid	
SDC - Central & Eastern - 20	Truck, End Dump, 35-20cy, Hwy		250	1656.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	8283	Diesel	
SDC - Central & Eastern - 22	Concrete Pump Truck	Off-Highway Truck	90	2666.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	13334	Diesel	
SDC - Central & Eastern - 22	Trailer, Flatbed, 40T	Off-Highway Truck	90	666.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3334	Diesel	
SDC - Central & Eastern - 23	Concrete Pump Truck	Off-Highway Truck	49	29.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	145	Diesel	
SDC - Central & Eastern - 23	Trailer, Flatbed, 40T	Off-Highway Truck	49	29.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	145	Diesel	
SDC - Central & Eastern - 23	Concrete Pump Truck	Off-Highway Truck	49	116.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	584	Diesel	
SDC - Central & Eastern - 24	Trailer, Flatbed, 40T	Off-Highway Truck	100	310.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1551	Diesel	

SDC - Central & Eastern - 25	Articulated Rear Dump 22 CY/CAT 730	Dumper	253	23841	not applicable	not applicable	not applicable	on-site assume 5 miles/hour	110203	Diesel or Hybrid
SDC - Central & Eastern - 26	Articulated Rear Dump 22 CY/CAT 730	Dumper	592	23841	not applicable	not applicable	not applicable	on-site assume 5 miles/hour	110203	Diesel or Hybrid
SDC - Central & Eastern - 26	Concrete Pump Truck	Off-Highway Truck	369	2666.9	not applicable	not applicable	not applicable	on-site assume 5 miles/hour	13334	Diesel
SDC - Central & Eastern - 27	Concrete Pump Truck	Off-Highway Truck	660	2489.0	not applicable	not applicable	not applicable	on-site assume 5 miles/hour	13445	Diesel
SDC - Central & Eastern - 30	Articulated Rear Dump 6mg/CAT 725	Dumper	70	350	not applicable	not applicable	not applicable	on-site assume 5 miles/hour	1750	Diesel or Hybrid

Employees Required to Southern Complex West of Byron Highway - South Delta Conv - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
SDC - Central & Eastern - 1	Carpenter Journeyman	1053.39	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 1	Cement Mason Foreman	149.61	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 1	Cement Mason Journeyman	1033.18	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 1	Iron Worker Foreman	135	10		Stockton to/from South Delta Conveyance	32
	Iron Worker Journeyman	945				32
SDC - Central & Eastern - 1	Rebar/Struct		10		Stockton to/from South Delta Conveyance	
SDC - Central & Eastern - 1	Laborer Foreman	50	10		Stockton to/from South Delta Conveyance	32
						32
SDC - Central & Eastern - 1	Laborer G1 Vibrator, Green Cutter	100	10		Stockton to/from South Delta Conveyance	
SDC - Central & Eastern - 1	Laborer G2 Concrete Laborer	299.61	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 1	Laborer G2 General	772.04	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 1	Laborer G3 Dumpman	33.4	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 1	OPERATING ENGINEER FOREMAN	33.4	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 1	Operator G3 Loader >4cy	33.4	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 1	Operator G4 Dozer & Push Cat	33.4	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 1	Operator G4 Grade Check	33.4	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 1	Operator G6 Tractor	33.4	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 1	Operator G7 Roller, Compactor	33.4	10		Stockton to/from South Delta Conveyance	32
	Teamster G2 Hwy ED 6-8cy,	16.7				32
SDC - Central & Eastern - 1	Water<7mgal		10		Stockton to/from South Delta Conveyance	
	Teamster G3 ED 8-24cy,	66.8				32
	Water>7mgal		10		Stockton to/from South Delta Conveyance	
TOTAL SDC - Central & Eastern-1						
SDC - Central & Eastern - 2	Carpenter Apprentice	563.36	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	Carpenter Foreman	563.36	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	Carpenter Journeyman	1126.71	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	Electrical Foreman	228.34	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	Electrician Journeyman	813.4	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	Iron Worker Journeyman Rebar/Struc	1126.71	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	Laborer Foreman	700	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	Laborer G1 Pipe layers	1400	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	Laborer G2 General	4026.71	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	OPERATING ENGINEER FOREMAN	100	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	Operator G2 Finish Blade	100	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	Operator G3a Cranes 45 t and under	563.36	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	Operator G4 BH-Loader <.76cy	1400	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	Operator G4 Dozer & Push Cat	100	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	Operator G4 Grade Check	100	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	Operator G4 Scraper	200	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	Operator G7 Roller, Compactor	100	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	Teamster G2 Hwy ED 6-8cy, Water<7	800	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	Teamster G3 Boom Truck	281.68	10		Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-2						
SDC - Central & Eastern - 3	Carpenter Apprentice	120	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Carpenter Foreman	120	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Carpenter Journeyman	1245	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Electrical Foreman	120	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Electrician Journeyman	2370	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Iron Worker Journeyman Rebar/S	240	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Laborer Foreman	7398	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Laborer G2 General	10896	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Laborer G4 Clean-up	9000	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	OPERATING ENGINEER FOREMAN	6000	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Operator G2 Finish Blade	18000	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Operator G2a Cranes 45 to 100 t	70.65	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Operator G3 BH-Loader>3/4cy	1125	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Operator G3a Cranes 45 t and unc	120	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Operator G4 Hvy Duty Mechanic	35.33	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Operator G4 Loader <4.1cy	7449	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Operator G6 Tractor	1449	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Teamster G1 Hwy ED<6cy, Flatber	7433.33	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Teamster G2 Hwy ED 6-8cy, Wate	18000	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Teamster G3 Boom Truck	60	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Teamster G3 ED 8-24cy, Water>7i	12211.95	10		Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-3						
SDC - Central & Eastern - 4	Laborer G2 General	325	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 4	Laborer G3 Flagman	325	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 4	OPERATING ENGINEER FOREMAN	2317.63	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 4	Operator G1a Cranes>100 t	1059.96	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 4	Operator G2 Excavator 3.5 to 7.0 cy	4310.27	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 4	Operator G2a Cranes 45 to 100 t	1059.96	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 4	Operator G4 Dozer & Push Cat	8945.54	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 4	Operator G4 Loader <4.1cy	162.5	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 4	Operator G4 Trim Machine	81.25	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 4	Operator G5 Drilling & Boring Mach	450	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 4	Operator G7 Oiler	1509.96	10		Stockton to/from South Delta Conveyance	32

SDC - Central & Eastern - 4	Pile Driver Foreman	1059.96	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 4	Pile Driver Journeyman	4239.84	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 4	Teamster G2 Hwy ED 6-8cy, Water<7	162.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 4	Teamster G3 ED 8-24cy, Water>7mga	22307.37	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-4					
SDC - Central & Eastern - 5	Laborer G3 Flagman	2644.18	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 5	OPERATING ENGINEER FOREMAN	122.68	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 5	Operator G1a Cranes>100 t	7564	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 5	Operator G2 Excavator 3.5 to 7.0 cy	66.25	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 5	Operator G2 Finish Blade	2644.18	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 5	Operator G2a Cranes 45 to 100 t	7564	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 5	Operator G4 Dozer & Push Cat	18132.35	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 5	Operator G4 Scraper	268.66	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 5	Operator G5 Compactor w-blade	89.55	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 5	Operator G7 Oiler	7564	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 5	Pile Driver Foreman	7564	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 5	Pile Driver Journeyman	30256.01	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 5	Teamster G3 ED 8-24cy, Water>7mga	265.02	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-5					
SDC - Central & Eastern - 6	Bullgang Foreman	16	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Bullgang Laborer	32	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Carpenter	481.54	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Carpenter Foreman	120.39	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Crane Oiler	673	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Diver Contractor	200	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Excavator Operator	257.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Flat Truck Driver	16	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	General Foreman	683.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	General Laborer	3210.68	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Hyd Crane Operator	480	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Iron Worker	2290.74	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Iron Worker Foreman	460.68	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Lead Miner	230	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Loader Operator	465.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Mechanic Welder	464	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Miner	1798	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Shaft Crane Operator	673	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Shifter	678	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Slurry Wall Consultant	224	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Toplander	225	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Truck Driver	273.3	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-6					
SDC - Central & Eastern - 7	Bottomlander	111	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 7	Diver Contractor	138.74	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 7	Hyd Crane Operator	112.47	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 7	Iron Worker	1176	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 7	Iron Worker Foreman	147	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 7	Lead Miner	19.12	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 7	Miner	446.95	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 7	Shaft Crane Operator	111	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 7	Shifter	166.12	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 7	Toplander	255	24	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-7					
SDC - Central & Eastern - 8	Hyd Crane Operator	100	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 8	Lead Miner	100	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 8	Miner	800	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 8	Shifter	100	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-8					
SDC - Central & Eastern - 9	Crane Oiler	35.53	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 9	Electrician	8.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 9	Iron Worker	218.67	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 9	Iron Worker Foreman	27.33	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 9	Lead Miner	8.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 9	Mechanic Welder	8.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 9	Miner	120.27	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 9	Shaft Crane Operator	35.53	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 9	Shifter	35.53	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 9	Toplander	35.53	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-9					
SDC - Central & Eastern - 10	Bottomlander	235.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 10	Crane Oiler	235.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 10	Iron Worker	1884	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 10	Iron Worker Foreman	235.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 10	Shaft Crane Operator	235.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 10	Toplander	235.5	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-10					
SDC - Central & Eastern - 11	Bottomlander	102	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 11	Concrete Pump Operator	127.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 11	Crane Oiler	305	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 11	Lead Miner	357	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 11	Mechanic Welder	229.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 11	Miner	2756	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 11	Shaft Crane Operator	357	10	Stockton to/from South Delta Conveyance	32

SDC - Central & Eastern - 11	Shifter	357	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 11	Toplander	357	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-11					
SDC - Central & Eastern - 12	Bullgang Foreman	16	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	Bullgang Laborer	32	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	Carpenter	481.54	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	Carpenter Foreman	120.39	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	Crane Oiler	673	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	Diver Contractor	200	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	Excavator Operator	257.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	Flat Truck Driver	16	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	General Foreman	683.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	General Laborer	3210.68	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	Hyd Crane Operator	480	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	Iron Worker	2290.74	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	Iron Worker Foreman	460.68	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	Lead Miner	230	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	Loader Operator	465.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	Mechanic Welder	464	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	Miner	1798	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	Shaft Crane Operator	673	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	Shifter	678	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	Toplander	225	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	Truck Driver	273.3	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-12					
SDC - Central & Eastern - 13	Bottomlander	111	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 13	Diver Contractor	58.74	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 13	Hyd Crane Operator	112.47	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 13	Iron Worker	1176	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 13	Iron Worker Foreman	147	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 13	Lead Miner	19.12	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 13	Miner	224.95	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 13	Shaft Crane Operator	111	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 13	Shifter	55.12	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 13	Toplander	255	24	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-13					
SDC - Central & Eastern - 14	Hyd Crane Operator	100	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 14	Lead Miner	100	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 14	Miner	800	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 14	Shifter	100	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-14					
SDC - Central & Eastern - 15	Crane Oiler	35.53	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 15	Electrician	8.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 15	Iron Worker	218.67	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 15	Iron Worker Foreman	27.33	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 15	Lead Miner	8.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 15	Mechanic Welder	8.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 15	Miner	120.27	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 15	Shaft Crane Operator	35.53	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 15	Shifter	35.53	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 15	Toplander	35.53	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-15					
SDC - Central & Eastern - 16	Bottomlander	422.53	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 16	Crane Oiler	422.53	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 16	Iron Worker	3380.21	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 16	Iron Worker Foreman	422.53	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 16	Shaft Crane Operator	422.53	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 16	Toplander	422.53	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-16					
SDC - Central & Eastern - 17	Bottomlander	102	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 17	Concrete Pump Operator	196.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 17	Crane Oiler	443.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 17	Lead Miner	495.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 17	Mechanic Welder	546.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 17	Shaft Crane Operator	2237.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 17	Shaft Crane Operator	495.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 17	Shifter	445.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 17	Toplander	495.6	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-17					
SDC - Central & Eastern - 18	Electrical Lineman	260	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 18	Laborer Foreman	743	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 18	Laborer G1 Pipe layers	1300	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 18	Laborer G3 Flagman	10024.23	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 18	OPERATING ENGINEER FOREMAN	9031.92	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 18	Operator G1a Cranes>100 t	250	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 18	Operator G2 Excavator 3.5 to 7.0 cy	11978.48	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 18	Operator G2 Finish Blade	3359.23	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 18	Operator G3 Loader >4cy	79.71	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 18	Operator G4 Dozer & Push Cat	26836.04	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 18	Operator G4 Grade Check	79.71	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 18	Operator G4 Scraper	179.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 18	Operator G5 Compactor w-blade	139.41	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 18	Operator G7 Oiler	250	10	Stockton to/from South Delta Conveyance	32

SDC - Central & Eastern - 18	Operator G7 Roller, Compactor	55.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 18	Operator G8 Generator	1300	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 18	Teamster G2 Hwy ED 6-8cy, Water<7	1498.14	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 18	Teamster G3 Boom Truck	650	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 18	Teamster G3 ED 8-24cy, Water>7mgs	46512.48	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-18					
SDC - Central & Eastern - 19	Iron Worker Foreman	222.77	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 19	Iron Worker Journeyman Rebar/Struc	1336.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 19	Laborer G2 General	6300	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 19	Laborer G3 Flagman	1073.83	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 19	OPERATING ENGINEER FOREMAN	955.16	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 19	Operator G1a Cranes>100 t	2570.29	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 19	Operator G2 Excavator 3.5 to 7.0 cy	955.16	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 19	Operator G2 Finish Blade	267.47	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 19	Operator G2a Cranes 45 to 100 t	2570.29	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 19	Operator G3 Loader >4cy	665.33	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 19	Operator G4 Dozer & Push Cat	1955.34	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 19	Operator G5 Drilling & Boring Mach	700	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 19	Operator G7 Oiler	3270.29	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 19	Pile Driver Foreman	2570.29	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 19	Pile Driver Journeyman	10281.17	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 19	Teamster G2 Hwy ED 6-8cy, Water<7	148.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 19	Teamster G3 ED 8-24cy, Water>7mgs	3585.36	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 19	Teamster G4 Tractor, Lowbed/Trailer	665.33	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-19					
SDC - Central & Eastern - 20	Carpenter Foreman	1127.24	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Carpenter Journeyman	7890.68	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Cement Mason Foreman	513.02	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Cement Mason Journeyman	2591.36	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Iron Worker Foreman	3752.32	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Iron Worker Journeyman Rebar/Struc	22513.93	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Laborer Foreman	2924.64	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Laborer G1 Power Tamper	1603.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Laborer G1 Vibrator, Green Cutter	1548.85	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Laborer G2 Concrete Laborer	4383.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Laborer G2 General	2350.61	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Laborer G2 High Pressure Nozzleman	490.14	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Laborer G3 Flagman	207.36	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Operator G1a Cranes>100 t	1506.08	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Operator G2 Excavator 3.5 to 7.0 cy	534.47	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Operator G2 Finish Blade	108.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Operator G2a Cranes 45 to 100 t	1248.71	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Operator G3 Hyd Exc 3/4cy	158.77	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Operator G3 Loader >4cy	111.42	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Operator G4 Dozer & Push Cat	653.66	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Operator G4 Hvy Duty Mechanic	232.34	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Operator G4 Loader <4.1cy	158.77	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Operator G4a Boom truck<15 ton	462	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Operator G5 Compactor w-blade	108.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Operator G5 Concrete Pump	798.32	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Operator G7 Oiler	1574.44	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Operator G8a Skidsteer <Bobcat 743	80.66	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Teamster G1 Hwy ED<6cy, Flatbed	1506.08	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Teamster G2 Hwy ED 6-8cy, Water<7	24.3	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Teamster G3 ED 8-24cy, Water>7mgs	4393.76	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Teamster G4 Tractor, Lowbed/Trailer	1161.59	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-20					
SDC - Central & Eastern - 21	Laborer Foreman	190.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 21	Laborer G2 Concrete Laborer	761.98	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 21	Operator G1a Cranes>100 t	396.87	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 21	Operator G2a Cranes 45 to 100 t	388.93	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 21	Operator G7 Oiler	396.87	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 21	Pile Driver Foreman	1984.34	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-21					
SDC - Central & Eastern - 22	Carpenter Foreman	1948.91	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 22	Carpenter Journeyman	13642.35	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 22	Cement Mason Foreman	243.61	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 22	Cement Mason Journeyman	730.84	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 22	Iron Worker Foreman	5893.21	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 22	Iron Worker Journeyman Rebar/Struc	35359.29	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 22	Laborer Foreman	673.06	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 22	Laborer G1 Vibrator, Green Cutter	1333.43	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 22	Laborer G2 Concrete Laborer	2834.77	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 22	Laborer G2 General	974.45	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 22	Laborer G2 High Pressure Nozzleman	6.35	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 22	Operator G1a Cranes>100 t	666.71	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 22	Operator G5 Concrete Pump	666.71	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 22	Operator G7 Oiler	666.71	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 22	Teamster G1 Hwy ED<6cy, Flatbed	666.71	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 22	Teamster G3 ED 8-24cy, Water>7mgs	2000.14	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-22					
SDC - Central & Eastern - 23	Carpenter Foreman	54.67	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 23	Carpenter Journeyman	382.67	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 23	Cement Mason Foreman	34.77	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 23	Cement Mason Journeyman	192.58	10	Stockton to/from South Delta Conveyance	32

SDC - Central & Eastern - 23	Iron Worker Foreman	121.96	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 23	Iron Worker Journeyman Rebar/Struc	731.79	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 23	Laborer Foreman	29.07	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 23	Laborer G1 Vibrator, Green Cutter	58.13	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 23	Laborer G2 Concrete Laborer	326.72	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 23	Laborer G2 General	54.67	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 23	Operator G1a Cranes>100 t	29.07	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 23	Operator G5 Concrete Pump	29.07	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 23	Operator G7 Oiler	29.07	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 23	Teamster G1 Hwy ED<6cy, Flatbed	29.07	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 23	Teamster G3 ED 8-24cy, Water>7mgs	116.27	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-23					
SDC - Central & Eastern - 24	Carpenter Foreman	1472	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 24	Carpenter Journeyman	1617	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 24	Iron Worker Journeyman Rebar/Struc	204	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 24	Iron Worker-Rigger	310.25	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 24	Laborer G2 General	1241	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 24	Millwright	6205	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 24	Operator G2a Cranes 45 to 100 t	310.25	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 24	Teamster G1 Hwy ED<6cy, Flatbed	57.75	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 24	Teamster G4 Tractor, Lowbed/Trailer	310.25	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-24					
SDC - Central & Eastern - 25	OPERATING ENGINEER FOREMAN	1959.03	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 25	Operator G2 Excavator 3.5 to 7.0 cy	3918.05	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 25	Operator G4 Dozer & Push Cat	7836.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 25	Teamster G3 ED 8-24cy, Water>7mgs	23840.5	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-25					
SDC - Central & Eastern - 26	Carpenter Foreman	220.52	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Carpenter Journeyman	1543.64	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Cement Mason Foreman	42.61	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Cement Mason Journeyman	183.83	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Iron Worker Foreman	620.27	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Iron Worker Journeyman Rebar/Struc	3721.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Laborer Foreman	3638.27	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Laborer G1 Power Tamper	7226.38	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Laborer G1 Vibrator, Green Cutter	738.77	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Laborer G2 Concrete Laborer	5076.45	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Laborer G2 General	252.74	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Laborer G3 Flagman	2090.94	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	OPERATING ENGINEER FOREMAN	1987.25	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Operator G1a Cranes>100 t	2811.94	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Operator G2 Excavator 3.5 to 7.0 cy	1987.25	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Operator G2 Finish Blade	496.81	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Operator G2a Cranes 45 to 100 t	2149.65	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Operator G3 Hyd Exc 3/4cy	79.39	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Operator G3 Loader >4cy	617.48	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Operator G4 Dozer & Push Cat	4396.04	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Operator G4 Hvy Duty Mechanic	437.88	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Operator G4 Loader <4.1cy	79.39	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Operator G5 Concrete Pump	369.39	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Operator G7 Oiler	2648.32	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Operator G8a Skidsteer <Bobcat 743	24.3	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Pile Driver Foreman	10905.82	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Teamster G1 Hwy ED<6cy, Flatbed	630.78	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Teamster G2 Hwy ED 6-8cy, Water<7	508.96	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Teamster G3 ED 8-24cy, Water>7mgs	7385.41	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Teamster G4 Tractor, Lowbed/Trailer	605.33	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-26					
SDC - Central & Eastern - 27	Carpenter Foreman	9498.05	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	Carpenter Journeyman	66486.37	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	Cement Mason Foreman	2981.99	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	Cement Mason Journeyman	14261.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	Iron Worker Foreman	20813.75	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	Iron Worker Journeyman Rebar/Struc	124882.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	Laborer Foreman	3557.96	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	Laborer G1 Vibrator, Green Cutter	4977.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	Laborer G2 Concrete Laborer	18610.33	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	Laborer G2 General	5652.91	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	Laborer G2 High Pressure Nozzleman	1136.48	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	Operator G1a Cranes>100 t	4563.02	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	Operator G5 Concrete Pump	2488.95	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	Operator G7 Oiler	4563.02	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	Teamster G1 Hwy ED<6cy, Flatbed	4563.02	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	Teamster G3 ED 8-24cy, Water>7mgs	8926.37	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-27					
SDC - Central & Eastern - 28	Carpenter Foreman	3046	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Carpenter Journeyman	6006	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Electrical Foreman	292	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Electrician Journeyman	1460	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Iron Worker Journeyman Rebar/Struc	116.05	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Iron Worker-Rigger	1405	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Laborer G2 General	3278.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Millwright	10940	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Operator G1a Cranes>100 t	222.22	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Operator G2a Cranes 45 to 100 t	761.5	10	Stockton to/from South Delta Conveyance	32

SDC - Central & Eastern - 28	Operator G3 BH-Loader>3/4cy	222.22	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Operator G3a Cranes 45 t and under	408.05	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Operator G4a Boom truck<15 ton	408.05	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Pipefitter Apprentice	888.89	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Pipefitter Foreman	222.22	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Pipefitter Journeyman	1333.33	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Teamster G1 Hwy ED<6cy, Flatbed	214.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Teamster G4 Tractor, Lowbed/Trailer	769.22	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-28					
SDC - Central & Eastern - 29	Laborer Foreman	286	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 29	Laborer G2 Concrete Laborer	423.98	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 29	Laborer G3 Fence Builder	720	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 29	Operator G1a Cranes>100 t	220.83	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 29	Operator G2a Cranes 45 to 100 t	216.41	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 29	Operator G3 BH-Loader>3/4cy	180	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 29	Operator G7 Oiler	220.83	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 29	Pile Driver Foreman	220.83	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 29	Pile Driver Wharf and Dock	883.3	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 29	Teamster G1 Hwy ED<6cy, Flatbed	180	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-29					
SDC - Central & Eastern - 30	Laborer G2 General	20	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 30	Laborer G3 Flagman	520	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 30	OPERATING ENGINEER FOREMAN	270	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 30	Operator G2 Finish Blade	40	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 30	Operator G3 Loader >4cy	20	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 30	Operator G4 Dozer & Push Cat	690	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 30	Operator G4 Scraper	240	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 30	Operator G6 Tractor	130	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 30	Teamster G2 Hwy ED 6-8cy, Water<7	350	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-30					

Marine Inventory for Southern Complex West of Byron Highway - South Delta Conv - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Southern Complex West of Byron Highway - South Delta Conv - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Southern Complex West of Byron Highway - South Delta Conv - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Southern Complex West of Byron Highway - South Delta Conv - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
SDC - Central & Eastern - 1	150	46	3.3			3000	65				
SDC - Central & Eastern - 4	65	261	0.2	784469	3006						
SDC - Central & Eastern - 6		93		30773	331	5940	64				
SDC - Central & Eastern - 7		9				4592	510				
SDC - Central & Eastern - 8		5				328	66				
SDC - Central & Eastern - 9		5				2550	510				
SDC - Central & Eastern - 12		111		30773	277	5940	54				
SDC - Central & Eastern - 13		10				4592	459				
SDC - Central & Eastern - 15		6				32	5				
SDC - Central & Eastern - 17		54				5070	94				
SDC - Central & Eastern - 18		640		1374670	2148	639454.6	999				
SDC - Central & Eastern - 22		90				20001.4	222				
SDC - Central & Eastern - 23		49				680	14				
SDC - Central & Eastern - 25		253		1018694	4026						
SDC - Central & Eastern - 26		592		370229.4	625	14000.87	24				
SDC - Central & Eastern - 27		660				88064.9	133				
SDC - Central & Eastern - 30		70				115031	1643				

**Demolition Assumptions for Southern Complex West of Byron Highway - South Delta Conv - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

APPENDIX F – ATTACHMENT 2

Project Design Capacity 7,500 cfs

FINAL DRAFT

Construction Schedule for Intake 3 Haul Rd - Central & Eastern Access Road
Options 1A, 1B, 2A, 2B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	I3 HRd-C&E Access -1	6/25/2027	7/8/2027	14	5	10
Embankment	I3 HRd-C&E Access -2	7/9/2027	7/15/2027	5	5	10
Culvert Pipe	I3 HRd-C&E Access -3	7/16/2027	7/19/2027	3	3	10
Subdrain System	I3 HRd-C&E Access -4	7/20/2027	8/4/2027	14	5	10
Road Base	I3 HRd-C&E Access -5	8/5/2027	8/24/2027	15	5	10
Asphalt Paving	I3 HRd-C&E Access -6	8/25/2027	8/30/2027	5	5	10
KRail and Signs	I3 HRd-C&E Access -7	8/31/2027	8/31/2027	1	1	10
Intermediate Overlay	I3 HRd-C&E Access -8	6/17/2030	6/17/2030	1	1	10
Final Overlay	I3 HRd-C&E Access -9	8/18/2037	8/19/2037	2	2	10
Acres		0.4				

Construction Schedule for Intake 5 Haul Rd - Central & Eastern Access Road

All Options

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	I5 HRd-C&E Access -1	4/9/2027	4/26/2027	14	5	10
Embankment	I5 HRd-C&E Access -2	4/27/2027	5/3/2027	5	5	10
Culvert Pipe	I5 HRd-C&E Access -3	5/4/2027	5/5/2027	3	3	10
Subdrain System	I5 HRd-C&E Access -4	5/6/2027	5/25/2027	14	5	10
Road Base	I5 HRd-C&E Access -5	5/26/2027	6/16/2027	16	5	10
Asphalt Paving	I5 HRd-C&E Access -6	6/17/2027	6/23/2027	5	5	10
KRail and Signs	I5 HRd-C&E Access -7	6/24/2027	6/24/2027	1	1	10
Intermediate Overlay	I5 HRd-C&E Access -8	5/15/2030	5/17/2030	3	3	10
Final Overlay	I5 HRd-C&E Access -9	7/1/2037	7/6/2037	5	5	10

Acres

1

Construction Schedule for Intake Haul Rd - Central & Eastern Access Road

Options 1, 2, 7, 8, 9, 10

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	IHRd-C&E Access -1	4/27/2026	7/20/2026	61	5	10
Embankment	IHRd-C&E Access -2	7/21/2026	9/24/2026	48	5	10
Culvert Pipe	IHRd-C&E Access -3	9/25/2026	10/1/2026	5	5	10
Subdrain System	IHRd-C&E Access -4	10/2/2026	12/17/2026	55	5	10
Road Base	IHRd-C&E Access -5	12/18/2026	2/25/2027	50	5	10
Asphalt Paving	IHRd-C&E Access -6	2/26/2027	4/7/2027	30	5	10
KRail and Signs	IHRd-C&E Access -7	4/8/2027	4/8/2027	1	1	10
Intermediate Overlay	IHRd-C&E Access -8	4/30/2030	5/10/2030	9	5	10
Final Overlay	IHRd-C&E Access -9	6/16/2037	7/29/2037	32	5	10

Acres

10.4

NOTE: Access road between Intakes 2 and 3 are included in Intake 2 tables

Construction Schedule for Lambert Rd - Central & Eastern Access Road

For Intake Access Road Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	LRd-C&E Access -1	2/26/2027	3/2/2027	5	5	10
Culvert Pipe	LRd-C&E Access -2	3/3/2027	3/3/2027	1	1	10
Subdrain System	LRd-C&E Access -3	3/4/2027	3/18/2027	11	5	10
Road Base	LRd-C&E Access -4	3/19/2027	3/31/2027	10	5	10
Asphalt Paving	LRd-C&E Access -5	4/1/2027	4/6/2027	5	5	10
KRail and Signs	LRd-C&E Access -6	4/7/2027	4/20/2027	10	5	10
Intermediate Overlay	LRd-C&E Access -7	5/30/2030	6/7/2030	6	5	10
Final Overlay	LRd-C&E Access -8	7/29/2037	8/7/2037	8	5	10

Acres **12.5**

Construction Schedule for Hood-Franklin Park and Ride

For Intake Employees Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	HFPR -1	4/27/2026	7/31/2026	69	5	10
Embankment	HFPR -2	8/3/2026	8/13/2026	9	2	10
Culvert Pipe	HFPR -3	8/14/2026	8/19/2026	5	3	10
Subdrain System	HFPR -4	8/20/2026	8/25/2026	5	5	10
Road Base	HFPR -5	8/26/2026	10/6/2026	30	5	10
Asphalt Paving	HFPR -6	10/7/2026	11/23/2026	27	5	10
Electrical, Striping, and K-Rail Installation	HFPR -7	11/25/2026	11/27/2026	3	3	10

Acres

4.1

Construction Schedule for Hood-Franklin Road Overlay - Central & Eastern Access Road
 For Intake Access Employee Van - Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B
 THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	HFRd-C&E Overlay -1	11/24/2026	11/30/2026	5	5	10
Intermediate Overlay	HFRd-C&E Overlay -2	4/22/2030	4/29/2030	5	5	10
Final Overlay	HFRd-C&E Overlay -3	6/8/2037	6/16/2037	7	5	10
Acres	7.5					

Construction Schedule for SR160 Overlay - Central & Eastern Access Road
Intakes Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Initial Overlay	SR160 C&E Overlay -1	6/24/2027	7/14/2027	15	5	10
Intermediate Overlay	SR160 C&E Overlay -2	7/23/2030	8/12/2030	20	5	10
Final Overlay	SR160 C&E Overlay -3	8/26/2037	9/16/2037	20	5	10

**Construction Schedule for Intake 2_1500 cfs_Central & Eastern
Options 9B, 10B - Tee Screens**

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Development of Initial Intake Box Culverts & Gantry Crane	Intake 2 - Central & Eastern - 1	1/26/2034	4/4/2034	50	5	10
Initial Temporary Buildings	Intake 2 - Central & Eastern - 2	12/23/2030	8/25/2031	176	5	10
Phase 1 Sitework	Intake 2 - Central & Eastern - 3	4/17/2031	2/4/2032	211	5	10
Operations of Temporary Buildings	Intake 2 - Central & Eastern - 4	4/17/2031	3/16/2035	1012	5	10
Phase 2 Sitework - Foundations	Intake 2 - Central & Eastern - 5	2/2/2032	6/21/2033	361	5	10
Initial Roads and Move SR 160	Intake 2 - Central & Eastern - 6	1/5/2032	2/2/2032	21	5	10
Install Cofferdam	Intake 2 - Central & Eastern - 7	2/2/2032	7/14/2032	117	5	10
Construct Reception Shaft	Intake 2 - Central & Eastern - 8	9/27/2032	8/2/2033	216	5	10
Place Tremie Seal in Reception Shaft	Intake 2 - Central & Eastern - 9	8/5/2033	8/8/2033	3	3	24
Dewater Reception Shaft	Intake 2 - Central & Eastern - 10	8/10/2033	8/19/2033	7	7	24
Assemble Reception Shaft	Intake 2 - Central & Eastern - 11	8/19/2033	12/15/2033	84	5	10
Intake Structure within Cofferdam	Intake 2 - Central & Eastern - 12	7/14/2032	1/26/2034	402	5	10
Piles and Concrete in Sedimentation Basin	Intake 2 - Central & Eastern - 13	11/12/2032	8/31/2033	190	5	10
Intake Connections and Gates	Intake 2 - Central & Eastern - 14	9/10/2032	3/8/2034	391	5	10
Sedimentation Basin Mechanical and Electrical	Intake 2 - Central & Eastern - 15	8/31/2033	5/18/2034	186	5	10
Finish Box Culverts	Intake 2 - Central & Eastern - 16	6/22/2033	7/1/2033	7	5	10
Install Fish Screen, Appurtenant Facilities, Log Boom, and Rip Rap	Intake 2 - Central & Eastern - 17	10/21/2033	9/22/2034	240	5	10
Move SR 160 to Final Location	Intake 2 - Central & Eastern - 18	6/17/2033	8/1/2033	31	5	10
Basin Embankments, Gates, Buildings, and Substation	Intake 2 - Central & Eastern - 19	8/1/2033	9/1/2034	284	5	10
Remove Cofferdam - Phase 1	Intake 2 - Central & Eastern - 20	5/4/2034	7/5/2034	45	5	10
Remove Cofferdam - Phase 2	Intake 2 - Central & Eastern - 21	5/23/2034	7/4/2034	31	5	10
Finish Site Work, Sedimentation Basin Curtain, and Fencing	Intake 2 - Central & Eastern - 22	3/8/2034	12/12/2034	200	5	10
Finish Intake Exteriors	Intake 2 - Central & Eastern - 23	1/31/2035	3/16/2035	32	5	10
Site Restoration	Intake 2 - Central & Eastern - 24	3/16/2035	5/30/2035	56	5	10
Finish Sedimentation Basin	Intake 2 - Central & Eastern - 25	12/12/2034	1/31/2035	37	5	10

Total Site Acres

240

Vehicle Inventory for Intake 2_1500 cfs_Central & Eastern - Tee Screens
Options 9B, 10B

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Code	Equipment Name	General Equipment C	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if	Load Factor	Fuel Efficiency (gal./day)	Fuel (gal./day) (if known)
Intake 2 - Central & Eastern - 1	Grove RT Crane 30T	Crane	240	50	4.8	Diesel	160	0.29		
Intake 2 - Central & Eastern - 2	400A Diesel Welder, Trailer Mounted	Welders	41.7	176	0.2	Diesel	22	0.45		
Intake 2 - Central & Eastern - 2	Air Compressor 185 cfm	Air Compressor	360	176	2.0	Diesel Tier 4	49	0.48		
Intake 2 - Central & Eastern - 2	Boom Truck, 12.5 Tn Boom	Crane	2475.7	176	14.1	Diesel or Hybrid	100	0.29		
Intake 2 - Central & Eastern - 2	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loader	266.7	176	1.5	Diesel	110	0.36		
Intake 2 - Central & Eastern - 2	CAT 12 M	Grader	1431.2	176	8.1	Diesel	173	0.41		
Intake 2 - Central & Eastern - 2	CAT 14 M	Grader	201.4	176	1.1	Diesel	274	0.41		
Intake 2 - Central & Eastern - 2	Cat 613 C Self Loading Scraper	Scraper	120	176	0.7	Diesel	187	0.48		
Intake 2 - Central & Eastern - 2	CAT 631G Scraper, Conventional	Scraper	232.7	176	1.3	Diesel	515	0.48		
Intake 2 - Central & Eastern - 2	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	275	176	1.6	Diesel or Hybrid	130	0.36		
Intake 2 - Central & Eastern - 2	CAT 962 H Wheel Loader	Rubber Tired Loader	102.6	176	0.6	Diesel	230	0.36		
Intake 2 - Central & Eastern - 2	CAT CS-74, Roller, 17 tn, 156 HP	Rollers	1599	176	9.1	Diesel	156	0.38		
Intake 2 - Central & Eastern - 2	CAT D3 LGP, Dozer	Crawler Tractor	21.2	176	0.1	Diesel or Hybrid	76	0.43		
Intake 2 - Central & Eastern - 2	CAT D6LGPDozer w winch	Crawler Tractor	137.6	176	0.8	Diesel or Hybrid	179	0.43		
Intake 2 - Central & Eastern - 2	CAT D9R, Dozer w ripper	Crawler Tractor	77.6	176	0.4	Diesel	410	0.43		
Intake 2 - Central & Eastern - 2	CAT LOADER/HOE 416 E	Rubber Tired Loaders	2949.7	176	16.8	Diesel	78	0.36		
Intake 2 - Central & Eastern - 2	Compactor, Plate, 22" w x 35"	Plate Compactors	133.3	176	0.8	Diesel	8.5	0.43		
Intake 2 - Central & Eastern - 2	Compactor, Trench Roller, Vib 32" w	Roller	13.1	176	0.1	Diesel	20	0.38		
Intake 2 - Central & Eastern - 2	Concrete Vibrator, 2"	Other Construction Eq	41.7	176	0.2	Gasoline	3	0.42		
Intake 2 - Central & Eastern - 2	Disk, Towed	Off Highway Tractor	77.6	176	0.4	Diesel	140	0.44		
Intake 2 - Central & Eastern - 2	Grove RT Crane 55T, 247 hp	Crane	83.3	176	0.5	Diesel	247	0.29		
Intake 2 - Central & Eastern - 2	Grove RT Crane 80T, 275hp	Crane	360	176	2.0	Diesel	275	0.29		
Intake 2 - Central & Eastern - 2	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	12.9	176	0.1	Diesel	345	0.38		
Intake 2 - Central & Eastern - 2	Man-Lift, 54", 500 LB, 24' Reach, 4x4	Aerial Lifts	360	176	2.0	Diesel	75	0.31		
Intake 2 - Central & Eastern - 2	Portable, 20 Kw, Diesel, 36HP	Welders	41.7	176	0.2	Diesel Tier 4	36	0.45		
Intake 2 - Central & Eastern - 2	Water Pump, 4" Diesel	Pumps	69.3	176	0.4	Diesel	10	0.74		
Intake 2 - Central & Eastern - 2	Water Pump, 3" Gas, Diaphragm	Pumps	41.7	176	0.2	Gasoline	10	0.74		
Intake 2 - Central & Eastern - 3	Air Compressor 185 cfm	Air Compressor	200	211	0.9	Diesel Tier 4	49	0.48		
Intake 2 - Central & Eastern - 3	Air Compressor 375 cfm	Air Compressor	4853	211	23	Diesel Tier 4	122	0.48		
Intake 2 - Central & Eastern - 3	Boom Truck, 12.5 Tn Boom	Crane	400	211	1.9	Diesel or Hybrid	100	0.29		
Intake 2 - Central & Eastern - 3	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loader	4853	211	23	Diesel	110	0.36		
Intake 2 - Central & Eastern - 3	CAT 12 M	Grader	8.8	211	0.0	Diesel	173	0.41		
Intake 2 - Central & Eastern - 3	CAT 14 M	Grader	1711.6	211	8.1	Diesel	274	0.41		
Intake 2 - Central & Eastern - 3	CAT 311, 0.69 cy, 70 hp	Excavator	200	211	0.9	Diesel	70	0.38		
Intake 2 - Central & Eastern - 3	Cat 613 C Self Loading Scraper	Scraper	2807.6	211	13.3	Diesel	187	0.48		
Intake 2 - Central & Eastern - 3	CAT 825, Roller	Roller	1344.2	211	6.4	Diesel	315	0.38		
Intake 2 - Central & Eastern - 3	CAT 962 H Wheel Loader	Rubber Tired Loader	17.1	211	0.1	Diesel	230	0.36		
Intake 2 - Central & Eastern - 3	CAT CS-74, Roller, 17 tn, 156 HP	Rollers	181.6	211	0.9	Diesel	156	0.38		
Intake 2 - Central & Eastern - 3	CAT D3 LGP, Dozer	Crawler Tractor	371.7	211	1.8	Diesel or Hybrid	76	0.43		
Intake 2 - Central & Eastern - 3	CAT D6LGPDozer w winch	Crawler Tractor	3268.2	211	15.5	Diesel or Hybrid	179	0.43		
Intake 2 - Central & Eastern - 3	CAT IT28H, 10640 LB Tool Carrier	Rubber Tired Loaders	571.7	211	2.7	Diesel	145	0.36		
Intake 2 - Central & Eastern - 3	Disk, Towed	Off Highway Tractor	2634.9	211	12.5	Diesel	140	0.44		
Intake 2 - Central & Eastern - 3	DMM Deep Soil Mixer, 3 Shaft, 808 HP	Bore Drill Rigs	4853	211	23	Diesel	808	0.5		
Intake 2 - Central & Eastern - 3	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	4853	211	23	Diesel	500	0.34		
Intake 2 - Central & Eastern - 3	Grove RT Crane 30T	Crane	4853	211	23	Diesel	160	0.29		
Intake 2 - Central & Eastern - 3	Grove RT Crane 15T, 100hp	Crane	6330	211	30	Diesel	100	0.29		
Intake 2 - Central & Eastern - 3	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	1379.5	211	6.5	Diesel	384	0.38		
Intake 2 - Central & Eastern - 3	Man-Lift, 54", 500 LB, 24' Reach, 4x4	Aerial Lifts	400	211	1.9	Diesel	75	0.31		
Intake 2 - Central & Eastern - 3	Portable, 90 Kw, Diesel, 158HP	Welders	422	211	2	Diesel Tier 4	158	0.45		
Intake 2 - Central & Eastern - 3	Water Pump, 4" Diesel	Pumps	740.5	211	3.5	Diesel	10	0.74		
Intake 2 - Central & Eastern - 3	Water Pump, 3" Gas, Diaphragm	Pumps	371.7	211	1.8	Gasoline	10	0.74		
Intake 2 - Central & Eastern - 3	Well Drill	Bore/Drill Rigs	724	211	3.4	Diesel	136	0.5		
Intake 2 - Central & Eastern - 4	CAT LOADER/HOE 416 E	Rubber Tired Loaders	4646.3	1012	4.6	Diesel	78	0.36		
Intake 2 - Central & Eastern - 4	Disk, Towed	Off Highway Tractor	4646.3	1012	4.6	Diesel	140	0.44		
Intake 2 - Central & Eastern - 4	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	2323.2	1012	2.3	Diesel	80	0.44		
Intake 2 - Central & Eastern - 5	400A Diesel Welder, Trailer Mounted	Welders	93.3	361	0.3	Diesel	22	0.45		
Intake 2 - Central & Eastern - 5	Air Compressor 375 cfm	Air Compressor	11552	361	32	Diesel Tier 4	122	0.48		
Intake 2 - Central & Eastern - 5	Bobcat S630 Skid Steer Loader	Skid Loader	77.7	361	0.2	Diesel	74	0.37		
Intake 2 - Central & Eastern - 5	Brush Chipper, 18" Cap., Trailer Mtd. 173hp	Other Construction	48.6	361	0.1	Diesel	173	0.42		
Intake 2 - Central & Eastern - 5	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	11552	361	32	Diesel	110	0.36		
Intake 2 - Central & Eastern - 5	CAT 12 M	Grader	34.1	361	0.1	Diesel	173	0.41		
Intake 2 - Central & Eastern - 5	CAT 14 M	Grader	2472.1	361	6.8	Diesel	274	0.41		
Intake 2 - Central & Eastern - 5	CAT 320D, 1.56 cy, 153 hp	Excavator	48.6	361	0.1	Diesel	138	0.38		
Intake 2 - Central & Eastern - 5	Cat 613 C Self Loading Scraper	Scraper	4140.1	361	11.5	Diesel	187	0.48		
Intake 2 - Central & Eastern - 5	CAT 825, Roller	Roller	2223.3	361	6.2	Diesel	315	0.38		
Intake 2 - Central & Eastern - 5	CAT 950 H Wheel Loader	Rubber Tired Loaders	38.8	361	0.1	Diesel or Hybrid	130	0.36		
Intake 2 - Central & Eastern - 5	CAT 962 H Wheel Loader	Rubber Tired Loader	143.8	361	0.4	Diesel	230	0.36		
Intake 2 - Central & Eastern - 5	CAT 980 H Wheel Loader	Rubber Tired Loader	247.2	361	0.7	Diesel	393	0.36		
Intake 2 - Central & Eastern - 5	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	36.2	361	0.1	Diesel	158	0.38		
Intake 2 - Central & Eastern - 5	CAT CS-74, Roller, 17 tn, 156 HP	Rollers	143.8	361	0.4	Diesel	156	0.38		
Intake 2 - Central & Eastern - 5	CAT D3 LGP, Dozer	Crawler Tractor	19.4	361	0.1	Diesel or Hybrid	76	0.43		
Intake 2 - Central & Eastern - 5	CAT D6LGPDozer w winch	Crawler Tractor	6652.7	361	18.4	Diesel or Hybrid	179	0.43		
Intake 2 - Central & Eastern - 5	CAT LOADER/HOE 416 E	Rubber Tired Loaders	38.8	361	0.1	Diesel	78	0.36		
Intake 2 - Central & Eastern - 5	Disk, Towed	Off Highway Tractor	6060.7	361	16.8	Diesel	140	0.44		
Intake 2 - Central & Eastern - 5	DMM Deep Soil Mixer, 3 Shaft, 808 HP	Bore Drill Rig	11552	361	32	Diesel	808	0.5		
Intake 2 - Central & Eastern - 5	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	11552	361	32	Diesel	500	0.34		
Intake 2 - Central & Eastern - 5	Grove RT Crane 30T	Crane	11552	361	32	Diesel	160	0.29		
Intake 2 - Central & Eastern - 5	Grove RT Crane 55T, 247 hp	Crane	20938	361	58	Diesel	247	0.29		
Intake 2 - Central & Eastern - 5	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	2151.2	361	6.0	Diesel	384	0.38		
Intake 2 - Central & Eastern - 5	Manitowoc 555 150T, 250' Boom	Crane	361	361	0.3	Diesel	760	0.29		
Intake 2 - Central & Eastern - 5	Portable, 20 Kw, Diesel, 36HP Portable,	Welders	361	361	1	Diesel Tier 4	36	0.45		
Intake 2 - Central & Eastern - 5	90 Kw, Diesel, 158HP	Welders	1083	361	3	Diesel Tier 4	158	0.45		
Intake 2 - Central & Eastern - 5	Vibro Driver/Extractor V20B	Other Construction Eq	93.3	361	0.3	Diesel	325	0.42		
Intake 2 - Central & Eastern - 5	Water Pump, 4" Diesel	Pumps	1229.9	361	3.4	Diesel	10	0.74		
Intake 2 - Central & Eastern - 6	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	98.2	21	5	Diesel or Hybrid	224	0.42		
Intake 2 - Central & Eastern - 6	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	98.2	21	5	Diesel or Hybrid	137	0.38		
Intake 2 - Central & Eastern - 6	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	98.2	21	5	Diesel or Hybrid	133	0.38		
Intake 2 - Central & Eastern - 6	Boom Truck, 12.5 Tn Boom	Crane	29.6	21	1.4	Diesel or Hybrid	100	0.29		
Intake 2 - Central & Eastern - 6	CAT 14 M	Grader	40.9	21	1.9	Diesel	274	0.41		
Intake 2 - Central & Eastern - 6	CAT 962 H Wheel Loader	Rubber Tired Loader	40.9	21	1.9	Diesel	230	0.36		
Intake 2 - Central & Eastern - 6	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	40.9	21	1.9	Diesel	158	0.38		
Intake 2 - Central & Eastern - 6	CAT LOADER/HOE 416 E	Rubber Tired Loaders	127.8	21	6.1	Diesel	78	0.36		
Intake 2 - Central & Eastern - 7	400A Diesel Welder, Trailer Mounted	Welders	2662.7	117	22.8	Diesel	22	0.45		

Intake 2 - Central & Eastern - 7	Air Compressor 375 cfm	Air Compressor	2353.3	117	20.1	Diesel Tier 4	122	0.48
Intake 2 - Central & Eastern - 7	Grove RT Crane 55T, 247 hp	Crane	2662.7	117	22.8	Diesel	247	0.29
Intake 2 - Central & Eastern - 7	Manitowoc 555 150T, 250' Boom	Crane	2662.7	117	22.8	Diesel	760	0.29
Intake 2 - Central & Eastern - 7	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	2555.7	117	21.8	Diesel	75	0.31
Intake 2 - Central & Eastern - 7	Portable, 20 Kw, Diesel, 36HP	Welders	2662.7	117	22.8	Diesel Tier 4	36	0.45
Intake 2 - Central & Eastern - 7	Vibro Driver/Extractor V20B	Other Construction Eq	2662.7	117	22.8	Diesel	325	0.42
Intake 2 - Central & Eastern - 8	1600 CFM Compressor Diesel	Air Compressor	189.9	216	0.9	Diesel Tier 4	540	0.74
Intake 2 - Central & Eastern - 8	250 CFM Compressor Diesel	Air Compressor	3.6	216	0.0	Diesel Tier 3	75	0.74
Intake 2 - Central & Eastern - 8	CAT 950 H Wheel Loader	Rubber Tired Loaders	407.3	216	1.9	Diesel or Hybrid	130	0.36
Intake 2 - Central & Eastern - 8	CAT 980 H Wheel Loader	Rubber Tired Loader	27.9	216	0.1	Diesel	393	0.36
Intake 2 - Central & Eastern - 8	CAT CB-634D Vibratory 84"	Rollers	1199.8	216	5.6	Diesel	145	0.38
Intake 2 - Central & Eastern - 8	CAT D8 Dozer	Crawler Tractor	1227.7	216	5.7	Diesel	328	0.43
Intake 2 - Central & Eastern - 8	CAT Grader 16H	Graders	1227.7	216	5.7	Diesel	285	0.41
Intake 2 - Central & Eastern - 8	CAT Hyd Excavator 1CY	Excavator	217.4	216	1.0	Diesel	138	0.38
Intake 2 - Central & Eastern - 8	Hydraulic 55 Ton Crane	Crane	379.8	216	1.8	Diesel	350	0.29
Intake 2 - Central & Eastern - 8	Hydraulic 40 Ton Crane	Crane	32.4	216	0.2	Diesel	350	0.29
Intake 2 - Central & Eastern - 8	Hydraulic Excavator to 3.5	Crane	212	216	1.0	Diesel	350	0.29
Intake 2 - Central & Eastern - 8	Manitowoc 777 200 Ton Crane	Crane	497.7	216	2.3	Diesel	760	0.29
Intake 2 - Central & Eastern - 8	Slurry Wall Mixer & Desander & Stop End &	Cement & Mortar Mix	189.9	216	1	Diesel	8	0.56
Intake 2 - Central & Eastern - 8	Slurry Wall Techniwell	Pumps	189.9	216	1	Diesel	500	0.74
Intake 2 - Central & Eastern - 9	Hydraulic 25 Ton Crane	Crane	68.8	3	22.9	Diesel	100	0.29
Intake 2 - Central & Eastern - 10	150 KW Diesel Generator	Generator	90	7	13	Diesel Tier 4	183	0.74
Intake 2 - Central & Eastern - 10	Hydraulic 15 Ton Crane	Crane	90	7	13	Diesel	100	0.29
Intake 2 - Central & Eastern - 10	Water Pump, 6" Diesel	Pumps	360	7	51.4	Diesel	13	0.74
Intake 2 - Central & Eastern - 11	Air Compressor 250 cfm	Air Compressor	595.5	84	7.1	Diesel Tier 4	75	0.48
Intake 2 - Central & Eastern - 11	Hydraulic 9 Ton Crane	Crane	54	84	1	Diesel	100	0.29
Intake 2 - Central & Eastern - 11	Manitowoc 777 200 Ton Crane	Crane	205.8	84	2.5	Diesel	760	0.29
Intake 2 - Central & Eastern - 11	Manitowoc 999-275 Ton Crane	Crane	187.2	84	2.2	Diesel	900	0.29
Intake 2 - Central & Eastern - 11	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	313.4	84	3.7	Diesel Tier 4	210	0.38
Intake 2 - Central & Eastern - 12	400A Diesel Welder, Trailer Mounted	Welders	1867.3	402	4.6	Diesel	22	0.45
Intake 2 - Central & Eastern - 12	Air Compressor 185 cfm	Air Compressor	603	402	1.5	Diesel Tier 4	49	0.48
Intake 2 - Central & Eastern - 12	Air Compressor 375 cfm	Air Compressor	4339.4	402	10.8	Diesel Tier 4	122	0.48
Intake 2 - Central & Eastern - 12	Air Compressor 900 cfm	Air Compressor	3664.1	402	9.1	Diesel Tier 4	300	0.48
Intake 2 - Central & Eastern - 12	Auger, Drilled Pier, 48-60", 484 Hp	Bore/Drill Rigs	4097.5	402	10.2	Diesel	137	0.38
Intake 2 - Central & Eastern - 12	Bentonite Mix Plant/Desander	Cement & Mortar Mix	4097.5	402	10.2	Diesel Tier 4	100	0.56
Intake 2 - Central & Eastern - 12	Bobcat S630 Skid Steer Loader	Skid Loader	2048.8	402	5.1	Diesel	74	0.37
Intake 2 - Central & Eastern - 12	Boom Truck, 12.5 Tn Boom	Crane	301.5	402	0.8	Diesel or Hybrid	100	0.29
Intake 2 - Central & Eastern - 12	CAT 14 M	Grader	32	402	0.1	Diesel	274	0.41
Intake 2 - Central & Eastern - 12	CAT 815, Roller	Roller	64	402	0.2	Diesel	170	0.38
Intake 2 - Central & Eastern - 12	CAT 950 H Wheel Loader	Rubber Tired Loaders	6511.4	402	16.2	Diesel or Hybrid	130	0.36
Intake 2 - Central & Eastern - 12	CAT 966 GII Wheel Loader	Rubber Tired Loaders	6511.4	402	16.2	Diesel	286	0.36
Intake 2 - Central & Eastern - 12	CAT D3 LGP, Dozer	Crawler Tractor	2048.8	402	5.1	Diesel or Hybrid	76	0.43
Intake 2 - Central & Eastern - 12	CAT D6LGPDozer w winch	Crawler Tractor	4222.5	402	10.5	Diesel or Hybrid	179	0.43
Intake 2 - Central & Eastern - 12	CAT D8Rii, Dozer w winch	Crawler Tractor	301.3	402	0.7	Diesel	310	0.43
Intake 2 - Central & Eastern - 12	CAT LOADER/HOE 416 E	Rubber Tired Loaders	413.3	402	1.0	Diesel	78	0.36
Intake 2 - Central & Eastern - 12	Concrete Vibrator, 2"	Other Construction Eq	4876.2	402	12.1	Gasoline	3	0.42
Intake 2 - Central & Eastern - 12	Grove RT Crane 30T	Crane	1024.4	402	2.5	Diesel	160	0.29
Intake 2 - Central & Eastern - 12	Grove RT Crane 55T, 247 hp Komatsu	Crane	9159	402	22.8	Diesel	247	0.29
Intake 2 - Central & Eastern - 12	PC 600LC-8, 4.25 cy, 384 hp	Excavator	64	402	0.2	Diesel	384	0.38
Intake 2 - Central & Eastern - 12	Manitowoc 555 150T, 250' Boom	Crane	13710	402	34.1	Diesel	760	0.29
Intake 2 - Central & Eastern - 12	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	301.5	402	0.8	Diesel	75	0.31
Intake 2 - Central & Eastern - 12	Portable, 20 Kw, Diesel, 36HP	Welders	241.9	402	0.6	Diesel Tier 4	36	0.45
Intake 2 - Central & Eastern - 12	Portable, 90 Kw, Diesel, 158HP	Welders	1625.4	402	4.0	Diesel Tier 4	158	0.45
Intake 2 - Central & Eastern - 12	Pug Mill, 400 cy/hr, w200 kw Gen	Generators	234.5	402	0.6	Diesel Tier 4	300	0.74
Intake 2 - Central & Eastern - 12	Tremie Plant	Cement & Mortar Mix	1970.1	402	4.9	Diesel	500	0.56
Intake 2 - Central & Eastern - 12	Water Pump, 6" Diesel	Pumps	4097.5	402	10.2	Diesel	13	0.74
Intake 2 - Central & Eastern - 12	Water Pump, 10" Diesel	Pumps	1088.6	402	2.7	Diesel	200	0.74
Intake 2 - Central & Eastern - 13	400A Diesel Welder, Trailer Mounted	Welders	2010	190	10.6	Diesel	22	0.45
Intake 2 - Central & Eastern - 13	Air Compressor 900 cfm	Air Compressor	4020	190	21.2	Diesel Tier 4	300	0.48
Intake 2 - Central & Eastern - 13	CAT 973 Track Loader, 4.2 cy, 263hp	Skid Loader	118.8	190	0.6	Diesel or Hybrid	210	0.37
Intake 2 - Central & Eastern - 13	Concrete Vibrator, 2"	Other Construction Eq	6101.9	190	32.1	Gasoline	3	0.42
Intake 2 - Central & Eastern - 13	Grove RT Crane 55T, 247 hp	Crane	2200.6	190	11.6	Diesel	247	0.29
Intake 2 - Central & Eastern - 13	Manitowoc 555 150T, 250' Boom	Crane	6260.8	190	33.0	Diesel	760	0.29
Intake 2 - Central & Eastern - 13	Pile Hammer,Vulcan, Single 50k Ft-LB w Comp	Other Construction Eq	118.8	190	0.6	Diesel	210	0.42
Intake 2 - Central & Eastern - 13	Portable, 90 Kw, Diesel, 158HP	Welders	2010	190	10.6	Diesel Tier 4	158	0.45
Intake 2 - Central & Eastern - 13	Water Pump, 4" Diesel	Pumps	4020	190	21.2	Diesel	10	0.74
Intake 2 - Central & Eastern - 14	Air Compressor 250 cfm	Air Compressor	1680	391	4.3	Diesel Tier 4	75	0.48
Intake 2 - Central & Eastern - 14	Air Compressor 900 cfm	Air Compressor	1957.6	391	5.0	Diesel Tier 4	300	0.48
Intake 2 - Central & Eastern - 14	400A Diesel Welder, Trailer Mounted	Welders	979.8	391	2.5	Diesel	22	0.45
Intake 2 - Central & Eastern - 14	CAT 12 M	Grader	11.7	391	0.0	Diesel	173	0.41
Intake 2 - Central & Eastern - 14	CAT 980 H Wheel Loader	Rubber Tired Loader	424.8	391	0.0	Diesel	393	0.36
Intake 2 - Central & Eastern - 14	CAT D3 LGP, Dozer	Crawler Tractor	46.7	391	0.1	Diesel or Hybrid	76	0.43
Intake 2 - Central & Eastern - 14	CAT D6LGPDozer w winch	Crawler Tractor	46.7	391	0.1	Diesel or Hybrid	179	0.43
Intake 2 - Central & Eastern - 14	Concrete Vibrator, 2"	Other Construction Eq	2963.3	391	7.6	Gasoline	3	0.42
Intake 2 - Central & Eastern - 14	Generator Set 500 K	Generators	2241.5	391	5.7	Diesel Tier 4	300	0.74
Intake 2 - Central & Eastern - 14	Grove RT Crane 55T, 247 hp	Crane	978.8	391	2.5	Diesel	247	0.29
Intake 2 - Central & Eastern - 14	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	46.7	391	0.1	Diesel	384	0.38
Intake 2 - Central & Eastern - 14	Manitowoc 555 150T, 250' Boom	Crane	2963.3	391	7.6	Diesel	760	0.29
Intake 2 - Central & Eastern - 14	Portable, 90 Kw, Diesel, 158HP	Welders	978.8	391	2.5	Diesel Tier 4	158	0.45
Intake 2 - Central & Eastern - 14	Water Pump, 4" Diesel	Pumps	9.3	391	0.0	Diesel	10	0.74
Intake 2 - Central & Eastern - 15	400A Diesel Welder, Trailer Mounted	Welders	4578.9	186	24.6	Diesel	22	0.45
Intake 2 - Central & Eastern - 15	Air Compressor 185 cfm	Air Compressor	923	186	5.0	Diesel Tier 4	49	0.48
Intake 2 - Central & Eastern - 15	Boom Truck, 12.5 Tn Boom	Crane	1223	186	6.6	Diesel or Hybrid	100	0.29
Intake 2 - Central & Eastern - 15	CAT 950 H Wheel Loader	Rubber Tired Loaders	50	186	0.3	Diesel or Hybrid	130	0.36
Intake 2 - Central & Eastern - 15	CAT CS-74, Roller, 17 tn, 156 HP	Rollers	50	186	0.3	Diesel	156	0.38
Intake 2 - Central & Eastern - 15	CAT D3 LGP, Dozer	Crawler Tractor	50	186	0.3	Diesel or Hybrid	76	0.43
Intake 2 - Central & Eastern - 15	Concrete Vibrator, 2"	Other Construction Eq	13.8	186	0.1	Gasoline	3	0.42
Intake 2 - Central & Eastern - 15	Grove RT Crane 30T	Crane	6	186	0.0	Diesel	160	0.29
Intake 2 - Central & Eastern - 15	Grove RT Crane 55T, 247 hp	Crane	13.8	186	0.1	Diesel	247	0.29
Intake 2 - Central & Eastern - 15	Manitowoc 555 150T, 250' Boom	Crane	634	186	3.4	Diesel	760	0.29
Intake 2 - Central & Eastern - 15	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	1124.7	186	6.0	Diesel	75	0.31
Intake 2 - Central & Eastern - 15	Portable, 20 Kw, Diesel, 36HP	Welders	6.9	186	0.0	Diesel Tier 4	36	0.45
Intake 2 - Central & Eastern - 15	Water Pump,3" Gas, Diaphragm	Pumps	6.9	186	0.0	Gasoline	10	0.74
Intake 2 - Central & Eastern - 16	Air Compressor 185 cfm	Air Compressor	180	7	25.7	Diesel Tier 4	49	0.48

Intake 2 - Central & Eastern - 16	Boom Truck, 12.5 Tn Boom	Crane	180	7	25.7	Diesel or Hybrid	100	0.29
Intake 2 - Central & Eastern - 16	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	180	7	25.7	Diesel	75	0.31
Intake 2 - Central & Eastern - 17	400A Diesel Welder, Trailer Mounted	Welders	6463.9	240	26.9	Diesel	22	0.45
Intake 2 - Central & Eastern - 17	Air Compressor 185 cfm	Air Compressor	4563.3	240	19.0	Diesel Tier 4	49	0.48
Intake 2 - Central & Eastern - 17	Air Compressor 375 cfm	Air Compressor	379.3	240	1.6	Diesel Tier 4	122	0.48
Intake 2 - Central & Eastern - 17	Boom Truck, 12.5 Tn Boom	Crane	1286.9	240	5.4	Diesel or Hybrid	100	0.29
Intake 2 - Central & Eastern - 17	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	10	240	0.0	Diesel or Hybrid	130	0.36
Intake 2 - Central & Eastern - 17	CAT 966 GII Wheel Loader	Rubber Tired Loaders	219	240	0.9	Diesel	286	0.36
Intake 2 - Central & Eastern - 17	CAT CS-74, Roller, 17 tn, 156 HP	Rollers	10	240	0.0	Diesel	156	0.38
Intake 2 - Central & Eastern - 17	CAT D3 LGP, Dozer	Crawler Tractor	10	240	0.0	Diesel or Hybrid	76	0.43
Intake 2 - Central & Eastern - 17	Concrete Vibrator, 2"	Other Construction Eq	4.6	240	0.0	Gasoline	3	0.42
Intake 2 - Central & Eastern - 17	Gradall, 1.50 Cy, 282 Hp	Excavator	219	240	0.9	Diesel	282	0.38
Intake 2 - Central & Eastern - 17	Grove RT Crane 30T	Crane	10	240	0.0	Diesel	160	0.29
Intake 2 - Central & Eastern - 17	Grove RT Crane 55T, 247 hp	Crane	2704.6	240	11.3	Diesel	247	0.29
Intake 2 - Central & Eastern - 17	Manitowoc 555 150T, 250' Boom Man-	Crane	3159.1	240	13.2	Diesel	760	0.29
Intake 2 - Central & Eastern - 17	Lift, 54', 500 LB, 24' Reach, 4x4 Portable,	Aerial Lifts	2056.2	240	8.6	Diesel	75	0.31
Intake 2 - Central & Eastern - 17	20 Kw, Diesel, 36HP	Welders	251.6	240	1.0	Diesel Tier 4	36	0.45
Intake 2 - Central & Eastern - 17	Vibro Driver/Extractor V20B	Other Construction Eq	249.3	240	1.0	Diesel	325	0.42
Intake 2 - Central & Eastern - 17	Water Pump,3" Gas, Diaphragm	Pumps	2.3	240	0.0	Gasoline	10	0.74
Intake 2 - Central & Eastern - 18	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	112.1	31	4	Diesel or Hybrid	224	0.42
Intake 2 - Central & Eastern - 18	Asphalt Rollier, 2 Drum 12tn, 137hp	Roller	112.1	31	4	Diesel or Hybrid	137	0.38
Intake 2 - Central & Eastern - 18	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	112.1	31	4	Diesel or Hybrid	133	0.38
Intake 2 - Central & Eastern - 18	Boom Truck, 12.5 Tn Boom	Crane	13.2	31	0.4	Diesel or Hybrid	100	0.29
Intake 2 - Central & Eastern - 18	CAT 14 M	Grader	50.9	31	1.6	Diesel	274	0.41
Intake 2 - Central & Eastern - 18	CAT 962 H Wheel Loader	Rubber Tired Loader	50.9	31	1.6	Diesel	230	0.36
Intake 2 - Central & Eastern - 18	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	50.9	31	1.6	Diesel	158	0.38
Intake 2 - Central & Eastern - 18	CAT LOADER/HOE 416 E	Rubber Tired Loaders	125.2	31	4.0	Diesel	78	0.36
Intake 2 - Central & Eastern - 19	400A Diesel Welder, Trailer Mounted Air	Welders	33.3	284	0.1	Diesel	22	0.45
Intake 2 - Central & Eastern - 19	Compressor 185 cfm	Air Compressor	1380	284	4.9	Diesel Tier 4	49	0.48
Intake 2 - Central & Eastern - 19	Boom Truck, 12.5 Tn Boom	Crane	1380	284	4.9	Diesel or Hybrid	100	0.29
Intake 2 - Central & Eastern - 19	Case 590 SupN Loader/Hoe, 110 hp CAT	Rubber Tired Loaders	733.3	284	2.6	Diesel	110	0.36
Intake 2 - Central & Eastern - 19	12 M	Grader	5.5	284	0.0	Diesel	173	0.41
Intake 2 - Central & Eastern - 19	CAT 14 M	Grader	3704.6	284	13.0	Diesel	274	0.41
Intake 2 - Central & Eastern - 19	Cat 613 C Self Loading Scraper	Scraper	2775.8	284	9.8	Diesel	187	0.48
Intake 2 - Central & Eastern - 19	CAT 825, Roller	Roller	1537	284	5.4	Diesel	315	0.38
Intake 2 - Central & Eastern - 19	CAT 950 H Wheel Loader	Rubber Tired Loaders	770	284	2.7	Diesel or Hybrid	130	0.36
Intake 2 - Central & Eastern - 19	CAT 973 Track Loader, 4.2 cy, 263hp CAT	Skid Loader	20	284	0.1	Diesel or Hybrid	210	0.37
Intake 2 - Central & Eastern - 19	962 H Wheel Loader	Rubber Tired Loader	68.9	284	0.2	Diesel	230	0.36
Intake 2 - Central & Eastern - 19	CAT CS-74, Roller, 17 tn, 156 HP	Rollers	953.8	284	3.4	Diesel	156	0.38
Intake 2 - Central & Eastern - 19	CAT D3 LGP, Dozer	Crawler Tractor	36.7	284	0.1	Diesel or Hybrid	76	0.43
Intake 2 - Central & Eastern - 19	CAT D6LGPDozer w winch	Crawler Tractor	3565	284	12.6	Diesel or Hybrid	179	0.43
Intake 2 - Central & Eastern - 19	CAT LOADER/HOE 416 E	Rubber Tired Loaders	13	284	0.0	Diesel	78	0.36
Intake 2 - Central & Eastern - 19	Compactor, Plate, 22"x 35" Concrete	Plate Compactors	366.7	284	1.3	Diesel	8.5	0.43
Intake 2 - Central & Eastern - 19	Vibrator, 2"	Other Construction Eq	66.5	284	0.2	Gasoline	3	0.42
Intake 2 - Central & Eastern - 19	Disk, Towed	Off Highway Tractor	2758	284	9.7	Diesel	140	0.44
Intake 2 - Central & Eastern - 19	Grove RT Crane 30T	Crane	1655	284	5.8	Diesel	160	0.29
Intake 2 - Central & Eastern - 19	Grove RT Crane 55T, 247 hp	Crane	86.5	284	0.3	Diesel	247	0.29
Intake 2 - Central & Eastern - 19	Grove RT Crane 80T, 275hp	Crane	100	284	0.4	Diesel	275	0.29
Intake 2 - Central & Eastern - 19	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	2284.8	284	8.0	Diesel	384	0.38
Intake 2 - Central & Eastern - 19	Manitowoc 555 150T, 250' Boom Man-	Crane	20	284	0.1	Diesel	760	0.29
Intake 2 - Central & Eastern - 19	Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	1240	284	4.4	Diesel	75	0.31
Intake 2 - Central & Eastern - 19	Pile Hammer,Vulcan, Single 50k Ft-LB w Comp	Other Construction Eq	20	284	0.1	Diesel	210	0.42
Intake 2 - Central & Eastern - 19	Portable, 20 Kw, Diesel, 36HP	Welders	33.3	284	0.1	Diesel Tier 4	36	0.74
Intake 2 - Central & Eastern - 19	Water Pump, 4" Diesel	Pumps	837.4	284	2.9	Diesel	10	0.45
Intake 2 - Central & Eastern - 19	Water Pump, 6" Diesel	Pumps	544.1	284	1.9	Diesel	13	0.74
Intake 2 - Central & Eastern - 19	Water Pump,3" Gas, Diaphragm	Pumps	33.3	284	0.1	Gasoline	10	0.74
Intake 2 - Central & Eastern - 20	400A Diesel Welder, Trailer Mounted	Welders	151.2	45	3.4	Diesel	22	0.45
Intake 2 - Central & Eastern - 20	Air Compressor 375 cfm	Air Compressor	151.2	45	3.4	Diesel Tier 4	122	0.48
Intake 2 - Central & Eastern - 20	Grove RT Crane 55T, 247 hp	Crane	75.6	45	1.7	Diesel	247	0.29
Intake 2 - Central & Eastern - 20	Manitowoc 555 150T, 250' Boom	Crane	269.6	45	6.0	Diesel	760	0.29
Intake 2 - Central & Eastern - 20	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	151.2	45	3.4	Diesel	75	0.31
Intake 2 - Central & Eastern - 20	Portable, 20 Kw, Diesel, 36HP	Welders	269.6	45	6.0	Diesel Tier 4	36	0.74
Intake 2 - Central & Eastern - 20	Vibro Driver/Extractor V20B	Other Construction Eq	151.2	45	3.4	Diesel	325	0.42
Intake 2 - Central & Eastern - 21	400A Diesel Welder, Trailer Mounted	Welders	146	31	4.7	Diesel	22	0.45
Intake 2 - Central & Eastern - 21	Air Compressor 375 cfm	Air Compressor	146	31	4.7	Diesel Tier 4	122	0.48
Intake 2 - Central & Eastern - 21	Grove RT Crane 55T, 247 hp	Crane	146	31	4.7	Diesel	247	0.29
Intake 2 - Central & Eastern - 21	Manitowoc 555 150T, 250' Boom	Crane	146	31	4.7	Diesel	760	0.29
Intake 2 - Central & Eastern - 21	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	146	31	4.7	Diesel	75	0.31
Intake 2 - Central & Eastern - 21	Portable, 20 Kw, Diesel, 36HP	Welders	146	31	4.7	Diesel Tier 4	36	0.45
Intake 2 - Central & Eastern - 21	Vibro Driver/Extractor V20B	Other Construction Eq	146	31	4.7	Diesel	325	0.42
Intake 2 - Central & Eastern - 22	400A Diesel Welder, Trailer Mounted	Welders	98.3	200	0.5	Diesel	22	0.45
Intake 2 - Central & Eastern - 22	Air Compressor 185 cfm	Air Compressor	132.8	200	0.7	Diesel Tier 4	49	0.48
Intake 2 - Central & Eastern - 22	Air Compressor 375 cfm	Air Compressor	98.3	200	2.3	Diesel Tier 4	122	0.48
Intake 2 - Central & Eastern - 22	Air Compressor 900 cfm	Air Compressor	458.2	200	2.3	Diesel Tier 4	300	0.48
Intake 2 - Central & Eastern - 22	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	85.3	200	0	Diesel or Hybrid	224	0.42
Intake 2 - Central & Eastern - 22	Asphalt Rollier, 2 Drum 12tn, 137hp	Roller	85.3	200	0	Diesel or Hybrid	137	0.38
Intake 2 - Central & Eastern - 22	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	85.3	200	0	Diesel or Hybrid	133	0.38
Intake 2 - Central & Eastern - 22	Bobcat S630 Skid Steer Loader	Skid Loader	1600.0	200	8.0	Diesel	74	0.37
Intake 2 - Central & Eastern - 22	Boom Truck, 12.5 Tn Boom	Crane	132.8	200	0.7	Diesel or Hybrid	100	0.29
Intake 2 - Central & Eastern - 22	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	1429.3	200	7.1	Diesel	110	0.36
Intake 2 - Central & Eastern - 22	CAT 14 M	Grader	125	200	0.6	Diesel	274	0.41
Intake 2 - Central & Eastern - 22	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	1363.2	200	6.8	Diesel or Hybrid	130	0.36
Intake 2 - Central & Eastern - 22	CAT CS-74, Roller, 17 tn, 156 HP	Rollers	530.2	200	2.7	Diesel	156	0.38
Intake 2 - Central & Eastern - 22	CAT LOADER/HOE 416 E	Rubber Tired Loaders	1266.5	200	6.3	Diesel	78	0.36
Intake 2 - Central & Eastern - 22	Compactor, Plate, 22"x 35"	Plate Compactors	479	200	2.4	Diesel	8.5	0.43
Intake 2 - Central & Eastern - 22	Compactor, Trench Roller, Vib 32"w	Roller	471.3	200	2.4	Diesel	20	0.38
Intake 2 - Central & Eastern - 22	Conc/RCC Paver, 8 -12 Ft. Wide, 230 HP	Pavers	405.2	200	2.0	Diesel	230	0.42
Intake 2 - Central & Eastern - 22	Grove RT Crane 15T, 100hp	Crane	132.8	200	0.7	Diesel	100	0.29
Intake 2 - Central & Eastern - 22	Grove RT Crane 55T, 247 hp	Crane	98.3	200	0.5	Diesel	247	0.29
Intake 2 - Central & Eastern - 22	Manitowoc 555 150T, 250' Boom	Crane	98.3	200	0.5	Diesel	760	0.29
Intake 2 - Central & Eastern - 22	Pile Hammer D62-22, Single 165k Ft-LB, Diesel,	Other Construction Eq	98.3	200	0.5	Diesel	300	0.42
Intake 2 - Central & Eastern - 22	Portable, 20 Kw, Diesel, 36HP	Welders	98.3	200	0.5	Diesel Tier 4	36	0.45
Intake 2 - Central & Eastern - 22	Pug Mill, 400 cy/hr, w200 kw Gen	Generators	405.2	200	2.0	Diesel Tier 4	300	0.74
Intake 2 - Central & Eastern - 22	Shotcrete Pump	Pumps	458.2	200	2.3	Diesel	130	0.74
Intake 2 - Central & Eastern - 22	Vibro Driver/Extractor V20B	Other Construction Eq	98.3	200	0.5	Diesel	325	0.42
Intake 2 - Central & Eastern - 22	Water Pump, 4" Diesel	Pumps	25	200	0.1	Diesel	10	0.74

Intake 2 - Central & Eastern - 23	Bobcat S630 Skid Steer Loader	Skid Loader	302.4	32	9.5	Diesel	74	0.37
Intake 2 - Central & Eastern - 23	Boom Truck, 12.5 Tn Boom	Crane	302.4	32	9.5	Diesel or Hybrid	100	0.29
Intake 2 - Central & Eastern - 23	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	302.4	32	9.5	Diesel	75	0.31
Intake 2 - Central & Eastern - 23	Water Pump, 4" Diesel	Pumps	302.4	32	9.5	Diesel	10	0.74
Intake 2 - Central & Eastern - 24	CAT 12 M	Grader	70	56	1.3	Diesel	173	0.41
Intake 2 - Central & Eastern - 24	CAT 631G Scraper, Conventional	Scraper	400	56	7.1	Diesel	515	0.48
Intake 2 - Central & Eastern - 24	CAT 966 GII Wheel Loader	Rubber Tired Loaders	20	56	0.4	Diesel	286	0.36
Intake 2 - Central & Eastern - 24	CAT D8Rii, Dozer w winch	Crawler Tractor	400	56	7.1	Diesel	310	0.43
Intake 2 - Central & Eastern - 24	CAT D9R, Dozer w ripper	Crawler Tractor	500	56	8.9	Diesel	410	0.43
Intake 2 - Central & Eastern - 24	Disk, Towed	Off Highway Tractor	60	56	1.1	Diesel	140	0.44
Intake 2 - Central & Eastern - 24	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	150	56	2.7	Diesel	80	0.44
Intake 2 - Central & Eastern - 24	Farm Tractor, All Wheel Drive, 285 HP	Off Highway Tractor	20	56	0.4	Diesel	285	0.44
Intake 2 - Central & Eastern - 25	Bobcat S630 Skid Steer Loader	Skid Loader	200	37	5.4	Diesel	74	0.37
Intake 2 - Central & Eastern - 25	Boom Truck, 12.5 Tn Boom	Crane	200.0	37	5.4	Diesel or Hybrid	100	0.29
Intake 2 - Central & Eastern - 25	400A Diesel Welder, Trailer Mounted	Welders	260	37	7.0	Diesel	22	0.45
Intake 2 - Central & Eastern - 25	Grove RT Crane 80T, 275hp	Crane	33.8	37	0.9	Diesel	275	0.29
Intake 2 - Central & Eastern - 25	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	460	37	12.4	Diesel	75	0.31

Offroad Equipment (Electric) Inventory for Intake 2_1500 cfs_Central & Eastern - Tee Screens					
Options 9B, 10B					
Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
Intake 2 - Central & Eastern - 2	400A, Electric Welder	360	176	15	30.682
Intake 2 - Central & Eastern - 2	Water Pump, 4" Electrical, Submersible	20.5	176	1	0.116
Intake 2 - Central & Eastern - 2	Light Plant, 4 lite, 1000w, Tower/Mast	310.2	176		
Intake 2 - Central & Eastern - 3	400A, Electric Welder	200	211	15	14.218
Intake 2 - Central & Eastern - 3	Water Pump, 4" Electrical, Submersible	13075.8	211	1	61.971
Intake 2 - Central & Eastern - 5	Water Pump, 4" Electrical, Submersible	44069.1	361	1	122.075
Intake 2 - Central & Eastern - 5	Water Pump, 6" Electrical, Submersible	388.4	361	1	1.076
Intake 2 - Central & Eastern - 5	Light Plant, 4 lite, 1000w, Tower/Mast	48.6	361		
Intake 2 - Central & Eastern - 6	Water Pump, 4" Electrical, Submersible	8.2	21	1	0.390
Intake 2 - Central & Eastern - 7	Light Plant, 4 lite, 1000w, Tower/Mast	3833.5	117		
Intake 2 - Central & Eastern - 11	Axial Fan 114,000 CFM	54	84	50	32
Intake 2 - Central & Eastern - 12	400A, Electric Welder	603	402	15	22.500
Intake 2 - Central & Eastern - 12	Water Pump, 4" Electrical, Submersible	5299.6	402	1	13.183
Intake 2 - Central & Eastern - 12	Light Plant, 4 lite, 1000w, Tower/Mast	391	402		
Intake 2 - Central & Eastern - 13	Water Pump, 4" Electrical, Submersible	4020	190	1	21.158
Intake 2 - Central & Eastern - 14	Water Pump, 4" Electrical, Submersible	1957.6	391	1	5.007
Intake 2 - Central & Eastern - 15	400A, Electric Welder	996.3	186	15	80.347
Intake 2 - Central & Eastern - 16	400A, Electric Welder	180	7	15	385.714
Intake 2 - Central & Eastern - 17	400A, Electric Welder	3878.5	240	15	242.406
Intake 2 - Central & Eastern - 17	Light Plant, 4 lite, 1000w, Tower/Mast	747.9	240		
Intake 2 - Central & Eastern - 19	400A, Electric Welder	1380	284	15	72.887
Intake 2 - Central & Eastern - 25	400A, Electric Welder	240	37	240	1,556.757
Intake 2 - Central & Eastern - 25	Water Pump, 4" Electrical, Submersible	200	37	1	5.405
Electricity for TBM Operations included in the Summary Workbook					

Vehicle Inventory for Intake 2 1500 cfs Central & Eastern - Tee Screens
Options 98, 108

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint) vs.	# day	Vehicle Hours	Hours/trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gpl/dpy)
Vehicle Use on Paved Roads --- and Not on Construction Site												
Intake 2 - Central & Eastern - 1	Truck, Tractor, 75000#, 6 x 4	Materials from Sacramento	50	240.0	0.6	379	7.6	Intake 2 to/from Sacramento	19	38	Diesel	
Intake 2 - Central & Eastern - 2	Truck Flatbed 4 T Highway	Materials from Sacramento	176	83.3	0.6	132	0.7	Intake 2 to/from Sacramento	19	38	Diesel	
	Pickup 1/2T 2 WD	Materials from Sacramento	176	2879.8	0.6	4547	25.8	Intake 2 to/from Sacramento	19	38	Hybrid Gasoline	
	Pickup, 3/4T, 4wd	Materials from Sacramento	176	377.6	0.6	596	3.4	Intake 2 to/from Sacramento	19	38	Hybrid Gasoline	
	Truck End Dump 10-13cy Hwy	Materials from Sacramento	176	2977.5	0.6	4701	26.7	Intake 2 to/from Sacramento	19	38	Diesel	
	Truck & Bottom Dump 23cy 30T	Materials from Sacramento	176	308	0.6	486	474	Intake 2 to/from Sacramento	19	38	Diesel Tier 4	
	Concrete Transit Mix Truck 12cy	Concrete from Lambert CBP	176	7.1	0.1	53	0	Intake to/from Lambert CBP	4	8	Diesel	
	Truck End Dump 10-13cy Hwy	Base Rock and Gravel	176	1528.9	0.6	2434	13.7	Intake 2 to/from Sacramento	19	38	Diesel	
	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	176	403.4	0.6	637	3.6	Intake 2 to/from Sacramento	19	38	Diesel	
	Truck Flatbed 4 T Highway	Three Cranes, three Rollers, four Loaders, two Graders, Excavator, two Scrapers, and four Tractors from Sacramento	1	12.0	0.6	19	19.0	Intake 2 to/from Sacramento	19	38	Diesel	
	Truck Flatbed 4 T Highway	Forklift from and to Sacramento	2	1.3	0.6	2	1.0	Intake 2 to/from Sacramento	19	38	Diesel	
Intake 2 - Central & Eastern - 2	Truck, Water, 4 legal, Hwy	led Water from Sacramento Regional	176	3241.8	0.4	7481	42.5	Intake 3 to/from Sacramento Regional WWTP	13	26	Diesel	
Intake 2 - Central & Eastern - 3	Mechanics Truck	Materials from Sacramento	211	13075.8	0.6	20646	98	Intake 2 to/from Sacramento	19	38	Diesel	
	Pickup 1/2T 2 WD	Materials from Sacramento	211	15304.8	0.6	24165	114.5	Intake 2 to/from Sacramento	19	38	Hybrid Gasoline	
	Pickup, 3/4T, 4wd	Materials from Sacramento	211	2923.5	0.6	4616	21.9	Intake 2 to/from Sacramento	19	38	Hybrid Gasoline	
	Truck End Dump 10-13cy Hwy	Materials from Sacramento	211	577.0	0.6	911	4.3	Intake 2 to/from Sacramento	19	38	Diesel	
	Truck Flatbed 4 T Highway	Materials from Sacramento	211	13075.8	0.6	20646	97.8	Intake 2 to/from Sacramento	19	38	Diesel	
	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	211	200.0	0.6	316	1.5	Intake 2 to/from Sacramento	19	38	Diesel	
	Truck, Tractor, 75000#, 6 x 4	Materials from Sacramento	211	600.0	0.6	947	4.5	Intake 2 to/from Sacramento	19	38	Diesel	
	Truck End Dump 16-20cy Hwy	Base Rock and Gravel from Sacramento	211	644.1	0.6	1017	5	Intake 2 to/from Sacramento	19	38	Diesel	
	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	211	36.7	0.6	58	0.3	Intake 2 to/from Sacramento	19	38	Diesel	
	Truck Flatbed 4 T Highway	Crane and Excavator from Sacramento	1	1.3	0.6	2	2.0	Intake 2 to/from Sacramento	19	38	Diesel	
Intake 2 - Central & Eastern - 3	Truck Flatbed 4 T Highway	Loader and Excavator from and to Sacramento	2	2.5	0.6	4	2.0	Intake 2 to/from Sacramento	19	38	Diesel	
	Truck, Water, 4 legal, Hwy	led Water from Sacramento Regional	211	9969.7	0.4	23007	109.0	Intake 3 to/from Sacramento Regional WWTP	13	26	Diesel	
Intake 2 - Central & Eastern - 4	Truck Flatbed 4 T Highway	Materials from Sacramento	1012	9292.6	0.6	14673	14.5	Intake 2 to/from Sacramento	19	38	Diesel	
Intake 2 - Central & Eastern - 4	Truck Flatbed 4 T Highway	Tractor from Sacramento	1	0.6	0.6	1	1.0	Intake 2 to/from Sacramento	19	38	Diesel	
Intake 2 - Central & Eastern - 5	Mechanics Truck	Materials from Sacramento	361	44069.1	0.6	69583	193	Intake 2 to/from Sacramento	19	38	Diesel	
	Pickup 1/2T 2 WD	Materials from Sacramento	361	46492.6	0.6	73409	203.4	Intake 2 to/from Sacramento	19	38	Hybrid Gasoline	
	Pickup, 3/4T, 4wd	Materials from Sacramento	361	280.2	0.6	442	1.2	Intake 2 to/from Sacramento	19	38	Hybrid Gasoline	
	Truck End Dump 10-13cy Hwy	Materials from Sacramento	361	301.0	0.6	475	1.3	Intake 2 to/from Sacramento	19	38	Diesel	
	Truck Flatbed 4 T Highway	Materials from Sacramento	361	44069.1	0.6	69583	192.8	Intake 2 to/from Sacramento	19	38	Diesel	
	Truck & Bottom Dump 23cy 30T	Materials from Sacramento	361	432	0.6	683	150	Intake 2 to/from Sacramento	19	38	Diesel Tier 4	
	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	361	77.7	0.6	123	0.3	Intake 2 to/from Sacramento	19	38	Diesel	
	Truck End Dump 16-20cy Hwy	Base Rock from Sacramento	361	557.2	0.7	796	955	Intake 2 to/from Sacramento	21	42	Diesel	
	Truck Flatbed 4 T Highway	Two Loaders, Roller, and Crane from Sacramento	1	2.5	0.6	4	4.0	Intake 2 to/from Sacramento	19	38	Diesel	
	Truck Flatbed 4 T Highway	Excavator from and to Sacramento	2	1.3	0.6	2	1.0	Intake 2 to/from Sacramento	19	38	Diesel	
Intake 2 - Central & Eastern - 6	Pickup 1/2T 2 WD	Materials from Sacramento	21	98.2	0.6	155	7.4	Intake 2 to/from Sacramento	19	38	Hybrid Gasoline	
	Pickup, 3/4T, 4wd	Materials from Sacramento	21	40.9	0.6	65	3.1	Intake 2 to/from Sacramento	19	38	Hybrid Gasoline	
	Truck & Bottom Dump 23cy 30T	Materials from Sacramento	21	123	0.6	194	22	Intake 2 to/from Sacramento	19	38	Diesel Tier 4	
	Truck End Dump 16-20cy Hwy	Base Rock from Sacramento	21	105.8	0.6	167	261	Intake 2 to/from Sacramento	19	38	Diesel	
	Truck & Bottom Dump 23cy 30T	Alphalt, Hot Mix Delivered from Sacramento	21	111	0.7	158	245	Intake 2 to/from Sacramento	21	42	Diesel Tier 4	
	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	21	12.0	0.6	19	0.9	Intake 2 to/from Sacramento	19	38	Diesel	
Intake 2 - Central & Eastern - 6	Truck Flatbed 4 T Highway	Three Rollers and Paver from and to Sacramento	2	5.1	0.6	8	4.0	Intake 2 to/from Sacramento	19	38	Diesel	
	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Sacramento	117	112.1	0.6	177	1.5	Intake 2 to/from Sacramento	19	38	Diesel	
Intake 2 - Central & Eastern - 7	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	117	18.4	0.6	29	0.2	Intake 2 to/from Sacramento	19	38	Diesel	
Intake 2 - Central & Eastern - 8	Truck End Dump 16-20cy Hwy	Materials from Sacramento	216	2340.6	0.6	3696	17	Intake 2 to/from Sacramento	19	38	Diesel	
Intake 2 - Central & Eastern - 8	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement from Lambert CBP	216	0.0	0.1	0	0	Intake to/from Lambert CBP	4	8	Diesel	
	Truck End Dump 10-13cy Hwy	Bentonite from Sacramento	216	0.0	0.6	0.0	0.0	Intake 2 to/from Sacramento	19	38	Diesel	
	Truck, Flatbed, 10T, Hwy	Materials and Rebar from Sacramento	216	0.0	0.6	0.0	0.0	Intake 2 to/from Sacramento	19	38	Diesel	
	Truck Flatbed 4 T Highway	Crane from Sacramento	1	0.6	0.6	1	1.0	Intake 2 to/from Sacramento	19	38	Diesel	
Intake 2 - Central & Eastern - 8	Truck Flatbed 4 T Highway	Three Cranes, Grader, two Excavators, and Tractor from and to Sacramento	2	4.4	0.6	7	3.5	Intake 2 to/from Sacramento	19	38	Diesel	
Intake 2 - Central & Eastern - 9	Truck Flatbed 4 T Highway	Crane from and to Sacramento	2	1.3	0.6	2	1.0	Intake 2 to/from Sacramento	19	38	Diesel	
Intake 2 - Central & Eastern - 10	Truck Flatbed 4 T Highway	Crane from and to Sacramento	2	1.3	0.6	2	1.0	Intake 2 to/from Sacramento	19	38	Diesel	
Intake 2 - Central & Eastern - 11	Truck Flatbed 4 T Highway	Crane from and to Sacramento	2	1.3	0.6	2	1.0	Intake 2 to/from Sacramento	19	38	Diesel	
Intake 2 - Central & Eastern - 11	Truck Flatbed 4 T Highway	Crane from Sacramento	1	0.6	0.6	1	1.0	Intake 2 to/from Sacramento	19	38	Diesel	
Intake 2 - Central & Eastern - 11	Truck Flatbed 4 T Highway	Crane to Sacramento	1	0.6	0.6	1	1.0	Intake 2 to/from Sacramento	19	38	Diesel	
Intake 2 - Central & Eastern - 12	Pickup 1/2T 2 WD	Materials from Sacramento	402	8125.2	0.6	12829	31.9	Intake 2 to/from Sacramento	19	38	Hybrid Gasoline	
	Pickup, 3/4T, 4wd	Materials from Sacramento	402	8854.6	0.6	13981	34.8	Intake 2 to/from Sacramento	19	38	Hybrid Gasoline	
	Truck End Dump 10-13cy Hwy	Materials from Sacramento	402	1172.6	0.6	1851	4.6	Intake 2 to/from Sacramento	19	38	Diesel	
	Truck Flatbed 4 T Highway	Materials from Sacramento	402	4097.5	0.6	6470	16.1	Intake 2 to/from Sacramento	19	38	Diesel	
	Truck, Tractor, 75000#, 6 x 4	Materials from Sacramento	402	1360.8	0.6	2149	5.3	Intake 2 to/from Sacramento	19	38	Diesel	
	Concrete Transit Mix Truck 12cy	Concrete from Lambert CBP	402	3050.8	0.1	7881	19.6	Intake to/from Lambert CBP	4	8	Diesel	
Intake 2 - Central & Eastern - 12	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	402	702.4	0.6	1109	2.8	Intake 2 to/from Sacramento	19	38	Diesel	
Intake 2 - Central & Eastern - 12	Truck Flatbed 4 T Highway	Tractor and Loader from Sacramento	1	1.3	0.6	2	2.0	Intake 2 to/from Sacramento	19	38	Diesel	
Intake 2 - Central & Eastern - 13	Pickup 1/2T 2 WD	Materials from Sacramento	190	118.8	0.6	188	1.0	Intake 2 to/from Sacramento	19	38	Hybrid Gasoline	

Intake 2 - Central & Eastern - 13	Truck, Tractor, 75000k, 6 x 4	Materials from Sacramento	180	118.8	0.6	188	1.0	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 13	Concrete Transit Mix Truck 12cy	Concrete from Lambert CBP	190	492.4	0.1	3693	19.4	Intake to/from Lambert CBP	4	8	Diesel
Intake 2 - Central & Eastern - 13	Truck, Flatbed, 10T, Hay	Materials from Sacramento	190	175.4	0.6	277	1.5	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 13	Truck Flatbed 4 T Highway	Loader from Sacramento	1	0.6	0.6	1	1.0	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 14	Pickup 1/2T 2 WD	Materials from Sacramento	391	46.7	0.6	74	0.2	Intake 2 to/from Sacramento	19	38	Hybrid Gasoline
Intake 2 - Central & Eastern - 14	Concrete Transit Mix Truck 12cy	Concrete from Lambert CBP	391	124.5	0.1	934	2.4	Intake to/from Lambert CBP	4	8	Diesel
Intake 2 - Central & Eastern - 14	Truck, Flatbed, 10T, Hay	Materials from Sacramento	391	96.9	0.6	153	0.4	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 14	Truck Flatbed 4 T Highway	Loader from and to Sacramento	2	1.3	0.6	2	1.0	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 14	Truck Flatbed 4 T Highway	Loader and Crane to Sacramento	1	1.3	0.6	2	2.0	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 15	Pickup 1/2T 2 WD	Materials from Sacramento	186	1152.3	0.6	1819	9.8	Intake 2 to/from Sacramento	19	38	Hybrid Gasoline
Intake 2 - Central & Eastern - 15	Pickup, 3/4T, 4wd	Materials from Sacramento	186	50.0	0.6	79	0.4	Intake 2 to/from Sacramento	19	38	Hybrid Gasoline
Intake 2 - Central & Eastern - 15	Truck Flatbed 4 T Highway	Materials from Sacramento	186	105.2	0.6	166	0.9	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 15	Truck, Flatbed, 10T, Hay	Materials from Sacramento	186	201.7	0.6	318	1.7	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 15	Concrete Transit Mix Truck 12cy	Concrete from Lambert CBP	186	2.1	0.1	16	0.1	Intake to/from Lambert CBP	4	8	Diesel
Intake 2 - Central & Eastern - 15	Truck End Dump 16-20cy Hay	Gravel from Sacramento	186	7.0	0.6	11	0	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 15	Truck, Flatbed, 10T, Hay	Materials from Sacramento	186	126.7	0.6	200	1.1	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 15	Truck, Tractor, 75000k, 6 x 4	Materials from Sacramento	186	573.5	0.6	902	4.9	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 15	Truck, Flatbed, 10T, Hay	Rebar from Sacramento	186	0.6	0.6	1	0.0	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 16	Pickup 1/2T 2 WD	Materials from Sacramento	7	180.0	0.6	284	40.6	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 16	Truck, Tractor, 75000k, 6 x 4	Materials from Sacramento	7	400.0	0.6	632	90.2	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 17	Pickup 1/2T 2 WD	Materials from Sacramento	240	1816.1	0.6	2868	11.9	Intake 2 to/from Sacramento	19	38	Hybrid Gasoline
Intake 2 - Central & Eastern - 17	Pickup, 3/4T, 4wd	Materials from Sacramento	240	10.0	0.6	16	0.1	Intake 2 to/from Sacramento	19	38	Hybrid Gasoline
Intake 2 - Central & Eastern - 17	Truck Flatbed 4 T Highway	Materials from Sacramento	240	0.6	0	0	0.0	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 17	Truck, Flatbed, 10T, Hay	Materials from Sacramento	240	2130.0	0.6	3363	14.0	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 17	Truck End Dump 16-20cy Hay	Gravel and Base Rock from Sacramento	240	2550.3	0.6	61	0	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 17	Truck End Dump 10-13cy Hay	Concrete from Lambert CBP	240	0.8	0.1	6	0.0	Intake to/from Lambert CBP	4	8	Diesel
Intake 2 - Central & Eastern - 17	Truck, Flatbed, 10T, Hay	Materials from Sacramento	240	2211.0	0.6	3491	14.5	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 17	Truck Flatbed 4 T Highway	Excavator to Sacramento	1	0.6	0.6	1	1.0	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 18	Pickup 1/2T 2 WD	Materials from Sacramento	31	112.1	0.6	177	5.7	Intake 2 to/from Sacramento	19	38	Hybrid Gasoline
Intake 2 - Central & Eastern - 18	Pickup, 3/4T, 4wd	Materials from Sacramento	31	50.9	0.6	80	2.6	Intake 2 to/from Sacramento	19	38	Hybrid Gasoline
Intake 2 - Central & Eastern - 18	Truck End Dump 16-20cy Hay	Base Rock from Sacramento	31	11.4	0.6	18	1	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 18	Truck & Bottom Dump 21cy 30T	Asphalt, Hot Mix Delivered from Sacramento	31	13	0.7	18	474	Intake 2 to/from Sacramento	21	42	Diesel Tier 4
Intake 2 - Central & Eastern - 18	Truck Flatbed 4 T Highway	Roller and Loader to Sacramento	1	1.3	0.6	2	2.0	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 19	Pickup 1/2T 2 WD	Materials from Sacramento	284	3121.6	0.6	4929	17.4	Intake 2 to/from Sacramento	19	38	Hybrid Gasoline
Intake 2 - Central & Eastern - 19	Pickup, 3/4T, 4wd	Materials from Sacramento	284	2108.7	0.6	3330	11.7	Intake 2 to/from Sacramento	19	38	Hybrid Gasoline
Intake 2 - Central & Eastern - 19	Truck, Flatbed, 10T, Hay	Materials from Sacramento	284	13.0	0.6	21	0.1	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 19	Truck End Dump 10-13cy Hay	Materials from Sacramento	284	137.7	0.6	217	0.8	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 19	Truck & Bottom Dump 21cy 30T	Materials from Sacramento	284	138	0.6	217	474	Intake 2 to/from Sacramento	19	38	Diesel Tier 4
Intake 2 - Central & Eastern - 19	Truck Flatbed 4 T Highway	Materials from Sacramento	284	133.0	0.6	210	0.7	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 19	Truck, Tractor, 75000k, 6 x 4	Materials from Sacramento	284	395.0	0.6	624	2.2	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 19	Truck End Dump 16-20cy Hay	Gravel and Base Rock from Sacramento	284	46.2	0.6	73	0	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 19	Truck, Flatbed, 10T, Hay	Materials from Sacramento	284	435.7	0.6	688	2.4	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 19	Truck Flatbed 4 T Highway	Roller, Loader, two Tractors, two Excavators, Scraper, and two Cranes to Sacramento	1	5.7	0.6	9	9.0	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 22	Pickup 1/2T 2 WD	Materials from Sacramento	200	1283.6	0.6	2027	10.1	Intake 2 to/from Sacramento	19	38	Hybrid Gasoline
Intake 2 - Central & Eastern - 22	Pickup, 3/4T, 4wd	Materials from Sacramento	200	1083.0	0.6	1710	8.6	Intake 2 to/from Sacramento	19	38	Hybrid Gasoline
Intake 2 - Central & Eastern - 22	Truck, Flatbed, 10T, Hay	Materials from Sacramento	200	2330.2	0.6	3679	18.4	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 22	Truck End Dump 10-13cy Hay	Materials from Sacramento	200	1860.3	0.6	2937	14.7	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 22	Concrete Transit Mix Truck 12cy	Concrete from Lambert CBP	200	616.1	0.1	4621	23	Intake to/from Lambert CBP	4	8	Diesel
Intake 2 - Central & Eastern - 22	Truck & Bottom Dump 21cy 30T	Asphalt, Hot Mix Delivered from Sacramento	200	614	0.7	877	474	Intake 2 to/from Sacramento	21	42	Diesel Tier 4
Intake 2 - Central & Eastern - 22	Truck End Dump 16-20cy Hay	Gravel and Base Rock from Sacramento	200	5047.0	0.6	7969	40	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 22	Truck Flatbed 4 T Highway	Two Rollers, three Cranes, three Loaders, and Grader to Sacramento	1	5.7	0.6	9	9.0	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 22	Truck Flatbed 4 T Highway	Two Pavers and two Rollers from and to Sacramento	2	5.1	0.6	8	4.0	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 23	Truck End Dump 10-13cy Hay	Materials from Sacramento	32	302.4	0.6	477	14.9	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 23	Truck Flatbed 4 T Highway	Materials from Sacramento	32	302.4	0.6	477	14.9	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 23	Truck Flatbed 4 T Highway	Crane and Loader to Sacramento	1	1.3	0.6	2	2.0	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 24	Truck, Flatbed, 10T, Hay	Materials from Sacramento	56	32.3	0.6	51	0.9	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 25	Pickup 1/2T 2 WD	Materials from Sacramento	37	260.0	0.6	411	11.1	Intake 2 to/from Sacramento	19	38	Hybrid Gasoline
Intake 2 - Central & Eastern - 25	Truck Flatbed 4 T Highway	Materials from Sacramento	37	257.8	0.6	407	11.0	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 25	Truck Flatbed 4 T Highway	Crane and Loader to Sacramento	37	1.3	0.6	2	0.1	Intake 2 to/from Sacramento	19	38	Diesel
Intake 2 - Central & Eastern - 25	Truck, Water, 4 gal, Hay	Hot Water from Sacramento Regional	37	595.0	0.4	1373	37.1	Intake 3 to/from Sacramento Regional WWTP	13	26	Diesel

Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) — on the Construction Site								Miles On-Site			
Intake 2 - Central & Eastern - 1	Trailer, Flatbed, 40T	Off-Highway Truck	50	240.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1200	Diesel	
Intake 2 - Central & Eastern - 2	CAT 770, Articulated End Dump	Dumper	176	38.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	194	Diesel or Hybrid	
Intake 2 - Central & Eastern - 2	CAT 735, 35T, Articulated End Dump	Dumper	176	39	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid	
Intake 2 - Central & Eastern - 2	Trailer, Flatbed, 40T	Off-Highway Truck	176	133.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	667	Diesel	
Intake 2 - Central & Eastern - 3	Articulated Rear Dump 22 CY/CAT 730	Dumper	211	5518.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	27591	Diesel or Hybrid	
Intake 2 - Central & Eastern - 3	Trailer, Flatbed, 40T	Off-Highway Truck	211	200.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1000	Diesel	
Intake 2 - Central & Eastern - 3	Trailer, Lowboy, 120T	Off-Highway Truck	211	400.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2000	Diesel	

Intake 2 - Central & Eastern - 5	Articulated Rear Dump 22 CV/CAT 730	Dumper	361	849.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	42248	Diesel or Hybrid
Intake 2 - Central & Eastern - 5	Trailer, Lowboy, 120T	Off-Highway Truck	361	93.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	467	Diesel
Intake 2 - Central & Eastern - 5	Truck, 400hp & End Dump Tr, 28cy, 36T	Dumper	361	431.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2158	Diesel
Intake 2 - Central & Eastern - 8	Articulated Rear Dump 22 CV/CAT 730	Dumper	216	189.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	950	Diesel or Hybrid
Intake 2 - Central & Eastern - 8	CAT 730 Rear Dump	Dumper	216	261.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1305	Diesel or Hybrid
Intake 2 - Central & Eastern - 12	Articulated Rear Dump 22 CV/CAT 730	Dumper	402	584.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	29207	Diesel or Hybrid
Intake 2 - Central & Eastern - 12	Trailer, Lowboy, 50T	Off-Highway Truck	402	1360.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	6804	Diesel
Intake 2 - Central & Eastern - 13	Trailer, Lowboy, 50T	Off-Highway Truck	190	83.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	416	Diesel
Intake 2 - Central & Eastern - 14	Articulated Rear Dump 22 CV/CAT 730	Dumper to move soil on-site	391	186.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	934	Diesel or Hybrid
Intake 2 - Central & Eastern - 15	Articulated Rear Dump 22 CV/CAT 730	Dumper	186	100.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	500	Diesel or Hybrid
Intake 2 - Central & Eastern - 15	Trailer, Lowboy, 120T	Off-Highway Truck	186	571.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2858	Diesel
Intake 2 - Central & Eastern - 16	Trailer, Lowboy, 120T	Off-Highway Truck	7	400.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2000	Diesel
Intake 2 - Central & Eastern - 17	Articulated Rear Dump 22 CV/CAT 730	Dumper	240	20.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	100	Diesel or Hybrid
Intake 2 - Central & Eastern - 17	Trailer, Flatbed, 40T	Off-Highway Truck	240		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
Intake 2 - Central & Eastern - 18	Articulated Rear Dump 22 CV/CAT 730	Dumper	284	9146.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	45733	Diesel or Hybrid
Intake 2 - Central & Eastern - 18	Trailer, Flatbed, 40T	Off-Highway Truck	284	741.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3709	Diesel
Intake 2 - Central & Eastern - 19	Trailer, Lowboy, 50T	Off-Highway Truck	284	20.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	100	Diesel
Intake 2 - Central & Eastern - 22	Trailer, Flatbed, 40T	Off-Highway Truck	200	479.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2395	Diesel
Intake 2 - Central & Eastern - 22	Trailer, Lowboy, 120T	Off-Highway Truck	200	98.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	492	Diesel

Employees Required to Intake 2_1500 cfs_Central & Eastern - Tee Screens
Options 9B, 10B

Code	Employee Type	Hours	# Work Hours/Day	Trip Location (to/from)	Commute Miles/ One-way Trip/Day
Intake 2 - Central & Eastern - 1	Iron Worker-Rigger	240.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 1	Operator G3a Cranes 45 t and under	240.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 1	Teamster G4 Tractor, Lowbed/Trailer	240.0	10	Sacramento to/from Intake 2	19
TOTAL Intake 2 - Central & Eastern-1					
Intake 2 - Central & Eastern - 2	Carpenter Apprentice	360.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 2	Carpenter Foreman	2729.4	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 2	Carpenter Journeyman	416.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 2	Carpenter, Bridge and Highway	15764.9	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 2	Cement Mason Foreman	83.3	10		
Intake 2 - Central & Eastern - 2	Cement Mason Journeyman	250.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 2	Electrical Foreman	360.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 2	Electrician Journeyman	11447.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 2	Iron Worker Foreman	86.5	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 2	Iron Worker Journeyman				19
Intake 2 - Central & Eastern - 2	Rebar/Struct	11300.6	10	Sacramento to/from Intake 2	
Intake 2 - Central & Eastern - 2	Iron Worker-Rigger	9.6	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 2	Laborer Foreman	4550.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 2	Laborer G1 Pipe layers	559.6	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 2	Laborer G1 Power Tamper	13.1	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 2	Laborer G1 Vibrator, Green Cutter	83.3	10	Sacramento to/from Intake 2	
Intake 2 - Central & Eastern - 2	Laborer G2 Concrete Laborer	333.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 2	Laborer G2 General	6406.5	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 2	Laborer G3 Flagman	239.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 2	Laborer G4 Clean-up	14280.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 2	OPERATING ENGINEER FOREMAN	271.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 2	Operator G2 Excavator 3.5 to 7.0 cy	12.9	10	Sacramento to/from Intake 2	
Intake 2 - Central & Eastern - 2	Operator G2 Finish Blade	102.6	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 2	Operator G2a Cranes 45 to 100 t	443.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 2	Operator G3 BH-Loader>3/4cy	6975.5	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 2	Operator G3 Loader >4cy	11.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 2	Operator G4 Dozer & Push Cat	155.1	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 2	Operator G4 Grade Check	171.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 2	Operator G4 Hvy Duty Mechanic	20.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 2	Operator G4 Scraper	352.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 2	Operator G4a Boom truck<15 ton	4761.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 2	Operator G5 Compactor w-blade	171.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 2	Operator G5 Concrete Pump	41.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 2	Operator G7 Roller, Compactor	77.6	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 2	Operator G8 Pump	20.5	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 2	Teamster G1 Hwy ED<6cy, Flatbed	3653.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 2	Teamster G2 Hwy ED 6-8cy, Water	491.5	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 2	Teamster G3 Boom Truck	2475.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 2	Teamster G3 ED 8-24cy, Water>7mg	426.9	10	Sacramento to/from Intake 2	19
TOTAL Intake 2 - Central & Eastern-2					
Intake 2 - Central & Eastern - 3	Carpenter Apprentice	200.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 3	Carpenter Foreman	200.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 3	Carpenter Journeyman	400.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 3	Electrical Foreman	250.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 3	Electrical Lineman	800.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 3	Electrician Journeyman	200.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 3	Iron Worker Journeyman Rebar/S	400.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 3	Laborer G2 General	41171.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 3	Laborer G3 Flagman	927.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 3	OPERATING ENGINEER FOREMAN	15008.6	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 3	Operator G2 Excavator 3.5 to 7.0	1379.5	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 3	Operator G2 Finish Blade	1720.4	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 3	Operator G2 Plant Operator	26151.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 3	Operator G3 BH-Loader>3/4cy	13647.5	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 3	Operator G3 Loader >4cy	17.1	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 3	Operator G3a Cranes 45 t and under	13275.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 3	Operator G4 Dozer & Push Cat	3639.9	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 3	Operator G4 Grade Check	14506.1	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 3	Operator G4 Hvy Duty Mechanic	13075.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 3	Operator G4 Scraper	2807.6	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 3	Operator G4a Boom truck<15 ton	600.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 3	Operator G5 Compactor w-blade	1525.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 3	Operator G5 Drilling & Boring Mach	724.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 3	Operator G7 Oller	724.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 3	Operator G8a Skidsteer <Bobcat 743	200.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 3	Teamster G1 Hwy ED<6cy, Flatbed	13275.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 3	Teamster G2 Hwy ED 6-8cy, Water<7mg	15074.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 3	Teamster G3 Boom Truck	100.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 3	Teamster G3 ED 8-24cy, Water>7mg	6261.6	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 3	Teamster G4 Tractor, Lowbed/Trailer	600.0	10	Sacramento to/from Intake 2	19
TOTAL Intake 2 - Central & Eastern-3					
Intake 2 - Central & Eastern - 4	Laborer G2 General	18585.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 4	Laborer Foreman	4646.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 4	Operator G4 Loader <4.1cy	4646.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 4	Operator G6 Tractor	2323.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 4	Teamster G1 Hwy ED<6cy, Flatbed	9292.6	10	Sacramento to/from Intake 2	19
TOTAL Intake 2 - Central & Eastern-4					
Intake 2 - Central & Eastern - 5	Laborer Foreman	58.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 5	Laborer G2 General	132790.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 5	Laborer G3 Flagman	308.9	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 5	OPERATING ENGINEER FOREMAN	46657.4	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 5	Operator G1a Cranes>100 t	93.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 5	Operator G2 Excavator 3.5 to 7.0 cy	2151.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 5	Operator G2 Finish Blade	2506.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 5	Operator G2 Plant Operator	88138.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 5	Operator G2a Cranes 45 to 100 t	93.3	10	Sacramento to/from Intake 2	19

Intake 2 - Central & Eastern - 5	Operator G3 BH-Loader>3/4cy	44108.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 5	Operator G3 Loader >4cy	429.9	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 5	Operator G3a Cranes 45 t and under	44069.1	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 5	Operator G4 Dozer & Push Cat	6672.1	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 5	Operator G4 Grade Check	46504.4	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 5	Operator G4 Hvy Duty Mechanic	44069.1	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 5	Operator G4 Scraper	4140.1	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 5	Operator G5 Compactor w-blade	2156.1	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 5	Operator G7 Oiler	93.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 5	Operator G7 Roller, Compactor	247.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 5	Operator G8 Pump	437.9	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 5	Operator G8a Skidsteer <Bobcat 743	77.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 5	Pile Driver Foreman	93.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 5	Pile Driver Wharf and Dock	373.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 5	Teamster G1 Hwy ED<6cy, Flatbed	44146.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 5	Teamster G2 Hwy ED 6-8cy, Water<7	46839.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 5	Teamster G3 ED 8-24cy, Water>7mg;	11353.5	10	Sacramento to/from Intake 2	19
TOTAL Intake 2 - Central & Eastern-5					
Intake 2 - Central & Eastern - 6	Iron Worker-Rigger	29.6	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 6	Laborer G2 General	511.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 6	Laborer G3 Flagman	81.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 6	OPERATING ENGINEER FOREMAN	168.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 6	Operator G2 Finish Blade	40.9	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 6	Operator G3 BH-Loader>3/4cy	127.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 6	Operator G3 Loader >4cy	40.9	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 6	Operator G4 Grade Check	139.1	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 6	Operator G4a Boom truck<15 ton	29.6	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 6	Operator G5 Asphalt Roller	196.4	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 6	Operator G5 Compactor w-blade	40.9	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 6	Operator G5 Paver	98.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 6	Operator G8 Pump	8.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 6	Teamster G2 Hwy ED 6-8cy, Water<7	90.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 6	Teamster G3 Boom Truck	29.6	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 6	Teamster G3 ED 8-24cy, Water>7mg;	122.7	10	Sacramento to/from Intake 2	19
TOTAL Intake 2 - Central & Eastern-6					
Intake 2 - Central & Eastern - 7	Laborer G2 General	214.1	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 7	Operator G1a Cranes>100 t	2662.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 7	Operator G2a Cranes 45 to 100 t	2662.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 7	Operator G4a Boom truck<15 ton	2011.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 7	Pile Driver Foreman	2555.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 7	Pile Driver Journeyman	107.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 7	Pile Driver Wharf and Dock	13313.6	10	Sacramento to/from Intake 2	19
TOTAL Intake 2 - Central & Eastern-7					
Intake 2 - Central & Eastern - 8	Bottomlander	99.9	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 8	Carpenter	436.6	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 8	Carpenter Foreman	109.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 8	Compactor Operator	1199.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 8	Crane Oiler	587.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 8	Dozer Operator	12227.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 8	Excavator Operator	217.4	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 8	General Foreman	591.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 8	General Laborer	2761.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 8	Grade Setter / Checker	1227.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 8	Grader Operator	1286.6	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 8	Hyd Crane Operator	412.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 8	Iron Worker	2997.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 8	Iron Worker Foreman	522.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 8	Lead Miner	195.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 8	Loader Operator	435.1	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 8	Mechanic Welder	379.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 8	Miner	1789.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 8	Shaft Crane Operator	687.6	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 8	Shifter	707.4	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 8	Toplander	437.4	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 8	Truck Driver	1460.3	10	Sacramento to/from Intake 2	19
TOTAL Intake 2 - Central & Eastern-8					
Intake 2 - Central & Eastern - 9	Hyd Crane Operator	68.8	24	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 9	Lead Miner	17.2	24	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 9	Miner	137.7	24	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 9	Shifter	17.2	24	Sacramento to/from Intake 2	19
TOTAL Intake 2 - Central & Eastern-9					
Intake 2 - Central & Eastern - 10	Shifter	90.0	24	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 10	Lead Miner	90.0	24	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 10	Miner	720.0	24	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 10	Hyd Crane Operator	90.0	24	Sacramento to/from Intake 2	19
TOTAL Intake 2 - Central & Eastern-10					
Intake 2 - Central & Eastern - 11	Bottomlander	174.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 11	Concrete Pump Operator	86.4	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 11	Crane Oiler	346.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 11	Electrician	234.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 11	Hyd Crane Operator	54.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 11	Iron Worker	853.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 11	Iron Worker Foreman	106.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 11	Lead Miner	513.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 11	Mechanic Welder	426.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 11	Miner	4064.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 11	Shaft Crane Operator	393.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 11	Shifter	537.5	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 11	Toplander	393.0	10	Sacramento to/from Intake 2	19
TOTAL Intake 2 - Central & Eastern-11					
Intake 2 - Central & Eastern - 12	Carpenter Apprentice	603.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Carpenter Foreman	14358.6	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Carpenter Journeyman	76972.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Cement Mason Foreman	2373.9	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Cement Mason Journeyman	9359.6	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Electrical Foreman	150.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Electrician Journeyman	603.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Iron Worker Foreman	8016.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Iron Worker Journeyman Rebar/Stru	60124.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Laborer Foreman	8283.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Laborer G1 Vibrator, Green Cutter	2047.6	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Laborer G2 Concrete Laborer	36660.2	10	Sacramento to/from Intake 2	19

Intake 2 - Central & Eastern - 12	Laborer G2 General	46974.5	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Laborer G2 High Pressure Nozzleman	6051.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Laborer G4 Clean-up	6146.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	OPERATING ENGINEER FOREMAN	4870.6	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Operator G1a Cranes>100 t	13710.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Operator G2 Excavator 3.5 to 7.0 cy	63.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Operator G2 Finish Blade	32.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Operator G2 Plant Operator	6302.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Operator G2a Cranes 45 to 100 t	9159.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Operator G3 BH-Loader>3/4cy	413.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Operator G3 Dozer w-slope board	2048.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Operator G3 Loader >4cy	6511.4	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Operator G3a Cranes 45 t and under	1024.4	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Operator G4 Dozer & Push Cat	4526.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Operator G4 Hvy Duty Mechanic	4037.5	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Operator G4 Welder	603.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Operator G4a Boom truck<15 ton	301.5	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Operator G5 Compactor w-blade	64.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Operator G5 Concrete Pump	3358.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Operator G5 Drilling & Boring Mach	4097.5	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Operator G6 Conc Saw	4097.5	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Operator G7 Oiler	2034.1	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Operator G-8 Mech helper	2412.1	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Operator G8a Skidsteer <Bobcat 743	2048.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Pile Driver Wharf and Dock	3402.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Teamster G1 Hwy ED<6cy, Flatbed	4097.5	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Teamster G2 Hwy ED 6-8cy, Water<7	1423.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Teamster G3 Boom Truck	301.5	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Teamster G3 ED 8-24cy, Water>7mg;	13635.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 12	Teamster G4 Tractor, Lowbed/Traile	1360.8	10	Sacramento to/from Intake 2	19
TOTAL Intake 2 - Central & Eastern-12					
Intake 2 - Central & Eastern - 13	Carpenter Foreman	3770.5	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 13	Carpenter Journeyman	19906.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 13	Cement Mason Foreman	2988.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 13	Cement Mason Journeyman	17371.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 13	Iron Worker Foreman	6127.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 13	Iron Worker Journeyman Rebar/Stru	42623.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 13	Laborer Foreman	1685.9	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 13	Laborer G1 Vibrator, Green Cutter	2881.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 13	Laborer G2 Concrete Laborer	20898.4	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 13	Laborer G2 General	10669.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 13	Laborer G2 High Pressure Nozzleman	346.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 13	Operator G1a Cranes>100 t	6260.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 13	Operator G2a Cranes 45 to 100 t	2200.6	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 13	Operator G3 Loader >4cy	118.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 13	Operator G4 Hvy Duty Mechanic	502.5	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 13	Operator G5 Concrete Pump	1440.9	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 13	Operator G7 Oiler	4322.6	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 13	Pile Driver Journeyman	475.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 13	Teamster G3 ED 8-24cy, Water>7mg;	4466.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 13	Teamster G4 Tractor, Lowbed/Traile	118.8	10	Sacramento to/from Intake 2	19
TOTAL Intake 2 - Central & Eastern-13					
Intake 2 - Central & Eastern - 14	Bottomlander	2721.5	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 14	Bullgang Foreman	1877.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 14	Bullgang Laborer	10474.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 14	Carpenter Foreman	2916.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 14	Carpenter Journeyman	17927.1	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 14	Cement Mason Foreman	1710.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 14	Cement Mason Journeyman	5731.1	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 14	Iron Worker Foreman	1637.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 14	Iron Worker Journeyman Rebar/Stru	11458.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 14	Laborer Foreman	548.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 14	Laborer G1 Vibrator, Green Cutter	731.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 14	Laborer G2 Concrete Laborer	8914.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 14	Laborer G2 General	9233.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 14	Laborer G2 High Pressure Nozzleman	366.5	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 14	Lead Miner	1041.5	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 14	Loader Operator	424.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 14	OPERATING ENGINEER FOREMAN	46.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 14	Operator G1a Cranes>100 t	2936.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 14	Operator G2 Excavator 3.5 to 7.0 cy	46.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 14	Operator G2 Finish Blade	11.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 14	Operator G2a Cranes 45 to 100 t	978.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 14	Operator G4 Dozer & Push Cat	93.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 14	Operator G4 Grade Check	23.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 14	Operator G4 Hvy Duty Mechanic	244.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 14	Operator G5 Concrete Pump	365.5	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 14	Operator G7 Oiler	2936.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 14	Shaft Crane Operator	1680.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 14	Teamster G2 Hwy ED 6-8cy, Water<7	11.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 14	Teamster G3 ED 8-24cy, Water>7mg;	1283.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 14	Toplander	2721.5	10	Sacramento to/from Intake 2	19
TOTAL Intake 2 - Central & Eastern-14					
Intake 2 - Central & Eastern - 15	Carpenter Apprentice	923.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 15	Carpenter Foreman	3486.6	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 15	Carpenter Journeyman	1888.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 15	Cement Mason	82.9	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 15	Cement Mason Foreman	27.6	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 15	Electrical Foreman	165.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 15	Electrician Journeyman	1973.1	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 15	Iron Worker Foreman	72.9	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 15	Iron Worker Journeyman Rebar/Stru	1741.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 15	Iron Worker-Rigger	634.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 15	Operator G2a Cranes 45 to 100 t	13.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 15	Laborer G1 Vibrator, Green Cutter	27.6	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 15	Laborer G2 Concrete Laborer	110.5	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 15	Laborer G2 General	4229.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 15	Laborer G4 Flagman	50.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 15	Millwright	1143.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 15	OPERATING ENGINEER FOREMAN	50.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 15	Operator G1a Cranes>100 t	634.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 15	Operator G3 Loader >4cy	50.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 15	Operator G3a Cranes 45 t and under	6.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 15	Operator G4 Dozer & Push Cat	50.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 15	Operator G4 Grade Check	50.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 15	Operator G4 Hvy Duty Mechanic	36.9	10	Sacramento to/from Intake 2	19

Intake 2 - Central & Eastern - 15	Operator G4a Boom truck<15 ton	1223.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 15	Operator G5 Compactor w-blade	50.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 15	Operator G5 Concrete Pump	5.5	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 15	Operator G7 Oiler	634.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 15	Pipefitter Apprentice	73.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 15	Pipefitter Foreman	36.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 15	Pipefitter Journeyman	22.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 15	Teamster G1 Hwy ED<6cy, Flatbed	306.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 15	Teamster G2 Hwy ED 6-8cy, Water<7	25.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 15	Teamster G3 ED 8-24cy, Water>7mg;	113.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 15	Teamster G4 Tractor, Lowbed/Traile	571.5	10	Sacramento to/from Intake 2	19
TOTAL Intake 2 - Central & Eastern-15					
Intake 2 - Central & Eastern - 16	Carpenter Apprentice	180.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 16	Carpenter Foreman	180.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 16	Carpenter Journeyman	360.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 16	Electrical Foreman	45.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 16	Electrician Journeyman	180.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 16	Iron Worker Journeyman Rebar/S	360.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 16	Laborer G2 General	360.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 16	Operator G4a Boom truck<15 ton	180.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 16	Teamster G3 Boom Truck	90.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 16	Teamster G4 Tractor, Lowbed/Tra	400.0	10	Sacramento to/from Intake 2	19
TOTAL Intake 2 - Central & Eastern-16					
Intake 2 - Central & Eastern - 17	Carpenter Apprentice	406.9	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	Carpenter Foreman	5561.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	Carpenter Journeyman	3498.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	Carpenter, Bridge and Highway	276.9	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	CEMENT MASON	27.6	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	Cement Mason Foreman	9.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	Electrical Foreman	1020.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	Electrician Journeyman	7221.4	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	Iron Worker Foreman	5921.6	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	Iron Worker Journeyman	8026.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	Rebar/Struct	9373.4	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	Iron Worker-Rigger				
Intake 2 - Central & Eastern - 17	Laborer G1 Vibrator, Green Cutter	9.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	Laborer G2 Concrete Laborer	36.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	Laborer G2 General	14542.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	Laborer G3 Flagman	10.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	Millwright	33706.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	OPERATING ENGINEER FOREMAN	229.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	Operator G1a Cranes>100 t	3159.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	Operator G2a Cranes 45 to 100 t	2704.6	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	Operator G3 Gradall	219.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	Operator G3 Loader >4cy	229.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	Operator G3a Cranes 45 t and under	10.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	Operator G4 Dozer & Push Cat	10.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	Operator G4 Grade Check	10.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	Operator G4 Hwy Duty Mechanic	52.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	Operator G4a Boom truck<15 ton	2046.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	Operator G5 Compactor w-blade	10.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	Operator G5 Concrete Pump	1.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	Operator G7 Oiler	493.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	Pile Driver Foreman	249.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	Pile Driver Wharf and Dock	749.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	Pipefitter Apprentice	3990.6	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	Pipefitter Foreman	2235.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	Pipefitter Journeyman	9481.1	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	Teamster G1 Hwy ED<6cy, Flatbed	4680.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	Teamster G2 Hwy ED 6-8cy,	5.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	Teamster G3 ED 8-24cy,	24.6	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 17	Water>7mgal				
TOTAL Intake 2 - Central & Eastern-17					
Intake 2 - Central & Eastern - 18	Iron Worker-Rigger	13.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 18	Laborer G2 General	501.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 18	Laborer G2 Flagman	101.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 18	OPERATING ENGINEER FOREMAN	176.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 18	Operator G2 Finish Blade	50.9	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 18	Operator G3 BH-Loader>3/4cy	125.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 18	Operator G3 Loader >4cy	50.9	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 18	Operator G4 Grade Check	163.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 18	Operator G4a Boom truck<15 ton	13.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 18	Operator G5 Compactor w-blade	50.9	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 18	Operator G5 Asphalt Roller	224.1	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 18	Operator G5 Paver	112.1	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 18	Operator G8 Pump	10.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 18	Teamster G2 Hwy ED 6-8cy, Water<7	152.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 18	Teamster G3 Boom Truck	13.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 18	Teamster G3 ED 8-24cy, Water>7mg;	152.7	10	Sacramento to/from Intake 2	19
TOTAL Intake 2 - Central & Eastern-18					
Intake 2 - Central & Eastern - 19	Carpenter Apprentice	1280.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	Carpenter Foreman	1413.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	Carpenter Journeyman	765.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	Carpenter, Bridge and Highway	2560.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	CEMENT MASON	399.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	Cement Mason Foreman	133.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	Electrical Foreman	2113.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	Electrician Journeyman	4686.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	Iron Worker Foreman	147.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	Iron Worker Journeyman Rebar/Stru	4348.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	Iron Worker-Rigger	1500.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	Laborer Foreman	746.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	Laborer G1 Pipe layers	1466.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	Laborer G1 Vibrator, Green Cutter	133.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	Laborer G2 Concrete Laborer	532.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	Laborer G2 General	5693.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	Laborer G3 Fence Builder	52.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	Laborer G3 Flagman	66.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	OPERATING ENGINEER FOREMAN	2964.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	Operator G1a Cranes>100 t	20.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	Operator G2 Excavator 3.5 to 7.0 cy	2284.8	10	Sacramento to/from Intake 2	19

Intake 2 - Central & Eastern - 19	Operator G2 Finish Blade	3710.1	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	Operator G2a Cranes 45 to 100 t	186.5	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	Operator G3 BH-Loader>3/4cy	1479.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	Operator G3 Loader >4cy	135.5	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	Operator G3a Cranes 45 t and under	1655.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	Operator G4 Dozer & Push Cat	3601.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	Operator G4 Grade Check	2483.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	Operator G4 Hvy Duty Mechanic	33.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	Operator G4 Scraper	2775.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	Operator G4a Boom truck<15 ton	100.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	Operator G5 Compactor w-blade	2490.9	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	Operator G5 Concrete Pump	26.6	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	Pile Driver Journeyman	100.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	Teamster G1 Hwy ED<6cy, Flatbed	146.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	Teamster G2 Hwy ED 6-8cy, Water<7	3270.1	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	Teamster G3 Boom Truck	1380.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	Teamster G3 ED 8-24cy, Water>7mg;	9350.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 19	Teamster G4 Tractor, Lowbed/Trailei	395.0	10	Sacramento to/from Intake 2	19
TOTAL Intake 2 - Central & Eastern-19					
Intake 2 - Central & Eastern - 20	Laborer Foreman	151.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 20	Laborer G4 Clean-up	604.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 20	Operator G1a Cranes>100 t	269.6	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 20	Operator G2a Cranes 45 to 100 t	75.6	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 20	Operator G4a Boom truck<15 ton	151.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 20	Pile Driver Journeyman	151.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 20	Pile Driver Wharf and Dock	756.0	10	Sacramento to/from Intake 2	19
TOTAL Intake 2 - Central & Eastern-20					
Intake 2 - Central & Eastern - 21	Laborer Foreman	146.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 21	Laborer G4 Clean-up	583.9	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 21	Operator G1a Cranes>100 t	146.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 21	Operator G2a Cranes 45 to 100 t	146.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 21	Pile Driver Journeyman	146.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 21	Pile Driver Wharf and Dock	729.0	10	Sacramento to/from Intake 2	19
TOTAL Intake 2 - Central & Eastern-21					
Intake 2 - Central & Eastern - 22	Carpenter Journeyman	205.1	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	Cement Mason Journeyman	1019.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	Electrical Foreman	300.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	Electrical Lineman	300.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	Iron Worker-Rigger	132.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	Laborer Foreman	2583.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	Laborer G1 Pipe layers	3358.7	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	Laborer G2 Concrete Laborer	410.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	Laborer G2 General	12783.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	Laborer G3 Fence Builder	487.5	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	Laborer G3 Flagman	250.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	Laborer G6 Gunnite Nozzleman	916.4	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	OPERATING ENGINEER FOREMAN	1219.6	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	Operator G1a Cranes>100 t	98.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	Operator G2 Finish Blade	125.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	Operator G2 Plant Operator	405.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	Operator G2a Cranes 45 to 100 t	98.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	Operator G3 BH-Loader>3/4cy	3653.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	Operator G3 Loader >4cy	405.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	Operator G3a Cranes 45 t and under	132.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	Operator G4 BH-Loader <.76cy	132.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	Operator G4 Grade Check	615.4	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	Operator G4a Boom truck<15 ton	132.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	Operator G5 Asphalt Roller	170.5	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	Operator G5 Compactor w-blade	405.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	Operator G5 Curb & Gutter Conc Fini	205.1	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	Operator G5 Paver	290.4	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	Operator G6 Grout Mach	458.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	Operator G7 Oller	503.5	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	Operator G7 Roller, Compactor	125.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	Operator G8 Pump	25.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	Operator G8a Skidsteer <Bobcat 743	1600.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	Pile Driver Foreman	98.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	Pile Driver Wharf and Dock	393.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	Teamster G1 Hwy ED<6cy, Flatbed	2330.2	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	Teamster G2 Hwy ED 6-8cy, Water<7	3462.3	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 22	Teamster G3 Boom Truck	132.8	10	Sacramento to/from Intake 2	19
TOTAL Intake 2 - Central & Eastern-22					
Intake 2 - Central & Eastern - 23	Laborer Foreman	302.4	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 23	Laborer G4 Clean-up	1814.4	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 23	Operator G4a Boom truck<15 ton	6034.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 23	Operator G6 Tractor	302.4	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 23	Operator G8 Pump	302.4	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 23	Operator G8a Skidsteer <Bobcat 743	302.4	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 23	Teamster G1 Hwy ED<6cy, Flatbed	302.4	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 23	Teamster G2 Hwy ED 6-8cy, Water<7	302.4	10	Sacramento to/from Intake 2	19
TOTAL Intake 2 - Central & Eastern-23					
Intake 2 - Central & Eastern - 24	Laborer G2 General	20.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 24	Laborer G3 Flagman	440.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 24	OPERATING ENGINEER FOREMAN	335.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 24	Operator G2 Finish Blade	70.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 24	Operator G3 Loader >4cy	20.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 24	Operator G4 Dozer & Push Cat	900.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 24	Operator G4 Scraper	400.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 24	Operator G6 Tractor	130.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 24	Teamster G2 Hwy ED 6-8cy, Water<7	255.0	10	Sacramento to/from Intake 2	19
TOTAL Intake 2 - Central & Eastern-24					
Intake 2 - Central & Eastern - 25	Carpenter Foreman	240.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 25	Laborer G2 General	240.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 25	Laborer Foreman	200.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 25	Laborer G4 Clean-up	1200.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 25	Millwright	480.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 25	Operator G2a Cranes 45 to 100 t	33.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 25	Operator G4a Boom truck<15 ton	200.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 25	Operator G6 Tractor	200.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 25	Operator G7 Oller	33.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 25	Operator G8 Pump	200.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 25	Operator G8a Skidsteer <Bobcat 743	200.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 25	Pipefitter Apprentice	260.0	10	Sacramento to/from Intake 2	19

Intake 2 - Central & Eastern - 25	Pipefitter Foreman	260.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 25	Pipefitter Journeyman	1040.0	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 25	Teamster G1 Hwy ED<6cy, Flatbed	257.8	10	Sacramento to/from Intake 2	19
Intake 2 - Central & Eastern - 25	Teamster G2 Hwy ED 6-8cy, Water<7	200.0	10	Sacramento to/from Intake 2	19
TOTAL Intake 2 - Central & Eastern-25					

Marine Inventory for Intake 2_1500 cfs_Central & Eastern - Tee Screens
Options 9B, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
Intake 2 - Central & Eastern - 17	Rock from Stockton and Dredged Soil to Stockton No docks at Intake	2 barges (one with rock and one with equipment) with 2 tugboats will make 3 round trips							

Assume 87 miles/round trip; 9 mph empty and 6 mph loaded per Barges TM

**Locomotive Inventory for Intake 2_1500 cfs_Central & Eastern - Tee Screens
Options 9B, 10B**

NOT NEEDED

**Helicopter Inventory for Intake 2_1500 cfs_Central & Eastern - Tee Screens
Options 9B, 10B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Intake 2_1500 cfs_Central & Eastern - Tee Screens
Options 9B, 10B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
Intake 2 - Central & Eastern - 1	240	50	4.8								
Intake 2 - Central & Eastern - 2		176								41557	236
Intake 2 - Central & Eastern - 3	74	211	0.4					92.9	0	391910.8	1857
Intake 2 - Central & Eastern - 5	1.6	361	0.0					2.2	0	632583	1752
Intake 2 - Central & Eastern - 6		21								2864	136
Intake 2 - Central & Eastern - 8		216		11059	51	52763	244				
Intake 2 - Central & Eastern - 15		186								250	1
Intake 2 - Central & Eastern - 17		240								6628	28
Intake 2 - Central & Eastern - 18		31								3564	115
Intake 2 - Central & Eastern - 19		284								513984	1810
Intake 2 - Central & Eastern - 22		200								15000	75
Intake 2 - Central & Eastern - 24	118	103	1.1					121			

**Demolition Assumptions for Intake 2_1500 cfs_Central & Eastern - Tee Screens
Options 9B, 10B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Intake 3_3000 cfs_Central & Eastern**Options 1B, 2B, 7B, 8B, 9B, 10B - Tee Screens****THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1****NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION**

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Development of Initial Intake Box Culverts & Gantry Crane	Intake 3 - Central & Eastern - 1	1/1/2026	3/29/2026	64	5	10
Initial Concrete Placement for Sedimentation Basin	Intake 3 - Central & Eastern - 2	1/1/2026	4/29/2033	1677	5	10
Initial Temporary Buildings	Intake 3 - Central & Eastern - 3	2/11/2030	12/13/2030	220	5	10
Phase 1 Sitework	Intake 3 - Central & Eastern - 4	6/24/2030	6/11/2031	252	5	10
Use of Temporary Buildings	Intake 3 - Central & Eastern - 5	2/11/2030	11/27/2036	1772	5	10
Initial Roads and Move SR 160	Intake 3 - Central & Eastern - 6	5/2/2031	6/6/2031	26	5	10
Phase 2 Sitework - Foundations	Intake 3 - Central & Eastern - 7	6/6/2031	2/15/2033	446	5	10
Install Cofferdam	Intake 3 - Central & Eastern - 8	6/6/2031	12/22/2031	144	5	10
Construct Reception Shaft	Intake 3 - Central & Eastern - 9	8/27/2031	5/24/2032	195	5	10
Place Tremie Seal in Reception Shaft	Intake 3 - Central & Eastern - 10	5/25/2032	5/27/2032	2	2	24
Dewater Reception Shaft	Intake 3 - Central & Eastern - 11	5/28/2032	6/3/2032	5	5	10
Assemble Reception Shaft	Intake 3 - Central & Eastern - 12	6/4/2032	9/2/2032	65	5	10
Intake Structure within Cofferdam	Intake 3 - Central & Eastern - 13	12/31/2031	11/30/2033	500	5	10
Intake Connections and Gates	Intake 3 - Central & Eastern - 14	1/22/2032	1/9/2034	513	5	10
Piles and Concrete in Sedimentation Basin	Intake 3 - Central & Eastern - 15	5/17/2032	3/4/2033	210	5	10
Move SR 160 to Final Location	Intake 3 - Central & Eastern - 16	12/28/2032	2/1/2033	26	5	10
Finish Box Culverts	Intake 3 - Central & Eastern - 17	2/15/2033	3/1/2033	9	5	10
Basin Embankments, Gates, Buildings, and Substation	Intake 3 - Central & Eastern - 18	3/1/2033	3/29/2034	281	5	10
Sedimentation Basin Mechanical and Electrical	Intake 3 - Central & Eastern - 19	4/29/2033	3/21/2034	234	5	10
Install Fish Screen, Appurtenant Facilities, Log Boom, and Rip Rap	Intake 3 - Central & Eastern - 20	6/27/2033	7/20/2034	278	5	10
Remove Cofferdam	Intake 3 - Central & Eastern - 21	2/24/2034	9/21/2034	129	5	10
Finish Site Work, Sedimentation Basin Curtain, and Fencing	Intake 3 - Central & Eastern - 22	2/19/2035	7/22/2036	371	5	10
Finish Sedimentation Basin	Intake 3 - Central & Eastern - 23	8/1/2036	10/2/2036	45	5	10
Finish Intake Exteriors	Intake 3 - Central & Eastern - 24	10/3/2036	11/27/2036	39	5	10
Site Restoration	Intake 3 - Central & Eastern - 25	11/28/2036	3/2/2037	69	5	10

Total Site Acres**240**

**Construction Schedule for Intake 5_3000 cfs_Central & Eastern
Options 1B, 2B, 5B, 6B, 9B, 10B - Tee Screens**

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Development of Initial Intake Box Culverts & Gantry Crane	Intake 5 - Central & Eastern - 1	1/1/2026	3/29/2026	64	5	10
Initial Temporary Buildings	Intake 5 - Central & Eastern - 2	4/2/2029	3/3/2030	240	5	10
Phase 1 Sitework	Intake 5 - Central & Eastern - 3	3/4/2030	2/20/2031	253	5	10
Operations of Temporary Buildings	Intake 5 - Central & Eastern - 4	3/4/2030	8/9/2035	1418	5	10
Phase 2 Sitework - Foundations	Intake 5 - Central & Eastern - 5	10/25/2029	7/27/2032	920	5	10
Initial Roads and Move SR 160	Intake 5 - Central & Eastern - 6	10/3/2030	11/17/2030	33	5	10
Install Cofferdam	Intake 5 - Central & Eastern - 7	11/17/2030	9/8/2031	211	5	10
Construct Reception Shaft	Intake 5 - Central & Eastern - 8	2/27/2031	10/23/2031	164	5	10
Place Tremie Seal in Reception Shaft	Intake 5 - Central & Eastern - 9	10/26/2031	10/28/2031	3	5	10
Dewater Reception Shaft	Intake 5 - Central & Eastern - 10	10/29/2031	11/4/2031	5	2	24
Assemble Reception Shaft	Intake 5 - Central & Eastern - 11	11/5/2031	3/1/2032	84	5	10
Intake Structure within Cofferdam	Intake 5 - Central & Eastern - 12	7/24/2031	12/9/2033	360	5	10
Piles and Concrete in Sedimentation Basin	Intake 5 - Central & Eastern - 13	11/7/2031	10/20/2032	249	5	10
Intake Connections and Gates	Intake 5 - Central & Eastern - 14	1/10/2032	12/7/2033	597	5	10
Sedimentation Basin Mechanical and Electrical	Intake 5 - Central & Eastern - 15	10/6/2032	10/19/2033	270	5	10
Finish Box Culverts	Intake 5 - Central & Eastern - 16	10/27/2032	11/9/2032	9	5	10
Install Fish Screen, Appurtenant Facilities, Log Boom, and Rip Rap	Intake 5 - Central & Eastern - 17	5/25/2033	9/15/2034	342	5	10
Move SR 160 to Final Location	Intake 5 - Central & Eastern - 18	6/20/2033	8/12/2033	39	5	10
Basin Embankments, Gates, Buildings, and Substation	Intake 5 - Central & Eastern - 19	8/12/2033	7/31/2034	253	5	10
Remove Cofferdam - Phase 1	Intake 5 - Central & Eastern - 20	1/24/2034	5/29/2034	91	5	10
Remove Cofferdam - Phase 2	Intake 5 - Central & Eastern - 21	11/1/2035	1/8/2036	51	5	10
Finish Site Work, Sedimentation Basin Curtain, and Fencing	Intake 5 - Central & Eastern - 22	6/20/2034	4/27/2035	223	5	10
Finish Intake Exteriors	Intake 5 - Central & Eastern - 23	10/26/2034	8/9/2035	205	5	10
Site Restoration	Intake 5 - Central & Eastern - 24	12/21/2034	3/23/2035	67	5	10
Finish Sedimentation Basin	Intake 5 - Central & Eastern - 25	3/1/2035	5/10/2035	51	5	10

Total Site Acres

240

**Construction Schedule for Lambert Rd Conc Batch Plant - Central & Eastern
Options 9A, 9B, 10A, 10B**

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	LR CBP-C&E -1	10/7/2026	10/14/2026	6	5	10
Embankment	LR CBP-C&E -2	10/15/2026	10/15/2026	1	1	10
Culvert Pipe	LR CBP-C&E -3	10/16/2026	10/16/2026	1	1	10
Subdrain System	LR CBP-C&E -4	10/19/2026	10/19/2026	1	1	10
Road Base	LR CBP-C&E -5	10/20/2026	10/22/2026	3	3	10
Asphalt Paving	LR CBP-C&E -6	10/23/2026	10/27/2026	5	5	10
Erect Batch Plant	LR CBP-C&E -7A	10/28/2026	11/24/2026	19	5	10
Erect Batch Plant	LR CBP-C&E -7B	5/6/2030	5/31/2030	19	5	10
Erect Batch Plant	LR CBP-C&E -7C	2/27/2031	3/20/2031	10	5	10
Batch Plant Operations - Phase 1 - Concrete for Shafts	LR CBP-C&E -8	3/17/2027	3/14/2031	1041	5	10
Batch Plant Operations - Phase 2 - Concrete for Intake 5	LR CBP-C&E -9	6/28/2029	7/17/2034	1318	5	10
Batch Plant Operations - Phase 3 - Concrete for Intake 3	LR CBP-C&E -10	6/29/2032	12/6/2035	897	5	10
Batch Plant Operations - Phase 4 - Concrete for Intake 2	LR CBP-C&E -11	12/16/2032	5/29/2036	900	5	10

Offroad Equipment (Fossil Fuel) Inventory for Lambert Rd Conc Batch Plant - Central & Eastern
Options 9A, 9B, 10A, 10B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
LR CBP-C&E -2	CAT D6LGP Dozer w winch	Crawler Tractor	30.55	1	31	Diesel Tier 4 or Hybrid Dies	179	0.43		
LR CBP-C&E -2	Disk, Towed	Off-Highway Tractor	30.55	1	31	Diesel	140	0.44		
LR CBP-C&E -2	CAT 14 M	Grader	15.3	1	15	Diesel	274	0.41		
LR CBP-C&E -2	Water Pump, 4" Diesel	Pumps	3.65	1	4	Diesel	10	0.74		
LR CBP-C&E -2	CAT 815, Roller	Roller	30.55	1	31	Diesel	170	0.38		
LR CBP-C&E -3	Air Compressor 375 cfm	Air Compressor	13.9	1	14	Diesel Tier 4	122	0.48		
LR CBP-C&E -3	CAT LOADER/HOE 416 E	Rubber Tired Loader	27.8	1	28	Diesel	78	0.36		
LR CBP-C&E -3	Compactor, Plate, 22"w x 35"	Plate Compactor	13.9	1	14	Diesel	8.5	0.43		
LR CBP-C&E -4	CAT LOADER/HOE 416 E	Rubber Tired Loader	3.15	1	3	Diesel	78	0.36		
LR CBP-C&E -4	Compactor, Trench Roller, Vib 32"w	Roller	6.25	1	6	Diesel	20	0.38		
LR CBP-C&E -5	CAT 14 M	Grader	108.1	3	36	Diesel	274	0.41		
LR CBP-C&E -5	Water Pump, 4" Diesel	Pumps	108.1	3	36	Diesel	10	0.74		
LR CBP-C&E -5	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	108.1	3	36	Diesel	156	0.38		
LR CBP-C&E -6	CAT LOADER/HOE 416 E	Rubber Tired Loader	124.6	5	25	Diesel	78	0.36		
LR CBP-C&E -6	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	124.6	5	25	Diesel or Hybrid	224	0.42		
LR CBP-C&E -6	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	124.6	5	25	Diesel or Hybrid	137	0.38		
LR CBP-C&E -6	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	124.6	5	25	Diesel or Hybrid	133	0.38		
LR CBP-C&E -7	Air Compressor 185 cfm	Crane	400	19	21	Diesel or Hybrid	100	0.29		
LR CBP-C&E -7	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lift	200	19	11	Diesel	78	0.36		
LR CBP-C&E -7	Grove RT Crane 80T, 275hp	Crane	400	19	21	Diesel	275	0.29		
LR CBP-C&E -7	Boom Truck, 12.5 Tn Boom	Crane	200	19	11	Diesel or Hybrid	100	0.29		
LR CBP-C&E -7	Air Compressor 185 cfm	Crane	400	19	21	Diesel or Hybrid	100	0.29		
LR CBP-C&E -7	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lift	200	19	11	Diesel	78	0.36		
LR CBP-C&E -7	Grove RT Crane 80T, 275hp	Crane	400	19	21	Diesel	275	0.29		
LR CBP-C&E -7	Boom Truck, 12.5 Tn Boom	Crane	200	19	11	Diesel	100	0.29		
LR CBP-C&E -10	Portable, 300 Kw, Diesel 480hp	Generator	6030	897	7	Diesel Tier 4	400	0.74		
LR CBP-C&E -10	CAT 962 H Wheel Loader	Rubber Tired Loader	9045	897	10	Diesel or Hybrid	230	0.36		
LR CBP-C&E -10	Bobcat S630 Skid Steer Loader	Skid Loader	3547	897	4	Diesel	74	0.37		
LR CBP-C&E -11	Portable, 300 Kw, Diesel 480hp	Generator	6030	897	7	Diesel Tier 4	400	0.74		
LR CBP-C&E -11	CAT 962 H Wheel Loader	Rubber Tired Loader	9045	897	10	Diesel or Hybrid	230	0.36		
LR CBP-C&E -11	Bobcat S630 Skid Steer Loader	Skid Loader	3547	897	4	Diesel	74	0.37		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

**Offroad Equipment (Electric) Inventory for Lambert Rd Conc Batch Plant - Central & Eastern
Options 9A, 9B, 10A, 10B**

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
LR CBP-C&E -7A	400A, Electric Welder	400	19	15	316
LR CBP-C&E -7B	400A, Electric Welder	400	19	15	316
LR CBP-C&E -8	400A, Electric Welder	511	1041	15	7
LR CBP-C&E -9	400A, Electric Welder	746	1318	15	8
LR CBP-C&E -10	400A, Electric Welder	709	897	15	12
LR CBP-C&E -11	400A, Electric Welder	709	900	15	12
LR CBP-C&E -2	Light Plant, 4 lite, 1000w, Tower/Mast	123	1		

Vehicle Inventory for Lambert Rd Conc Batch Plant - Central & Eastern
Options 9A, 9B, 10A, 10B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/Trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (mpg) (if known)	Fuel (gal/day) (if known)
Vehicle Use on Paved Roads — and Not on Construction Site													
LR CBP-CBE -1	Pickup, 1/2T, 2wd	Materials from Sacramento	6	128	0.6	225	38	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
LR CBP-CBE -2	Pickup, 1/2T, 2wd	Materials from Sacramento	1	31	0.6	54	54	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
LR CBP-CBE -2	Cat 30mgel w/Cat 770, 512HP	Materials from Sacramento	1	15	0.6	27	27	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -2	Truck, Flatbed, 10T, Hwy	Grader from Sacramento	1	1	0.6	1	1.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -2	Truck, Flatbed, 10T, Hwy	Dozer and Roller to and from Sacramento	2	2	0.6	4	2.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -2	Truck' End Dump' 16-20cy' Hwy	Gravel from Sacramento	1	939	0.6	1657	1657	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -3	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	1	14	0.6	25	25	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -3	Truck, Flatbed, 10T, Hwy	Loader and Compactor from Sacramento	1	1	0.6	2	2.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -4	Truck, End Dump, 10-13cy, Hwy	Materials from Sacramento	1	6	0.6	11	11	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -4	Truck, Flatbed, 10T, Hwy	Compactor to Sacramento	1	1	0.6	1	1.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -5	Pickup, 3/4T, 4wd	Materials from Sacramento	3	108	0.6	191	64	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
LR CBP-CBE -5	Truck' End Dump' 16-20cy' Hwy	Base Rock from Sacramento	1041	579	0.6	1021	1	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -5	Truck, Flatbed, 10T, Hwy	Roller to and from Sacramento	2	1	0.6	2	1.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -5	Truck, Flatbed, 10T, Hwy	Grader to Sacramento	1	1	0.6	1	1.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -6	Truck, Flatbed, 10T, Hwy	Paver and two Rollers to and from Sacramento	2	3	0.6	6	3.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -6	Truck & Bottom Dump' 25cy' 30T	Asphalt, Hot Mix Materials from Sacramento	5	388.3	0.6	685	137	Franklin Boulevard to/from Sacramento	17	34	Diesel Tier 4		
LR CBP-CBE -6	Truck, Flatbed, 10T, Hwy	Truck to Sacramento	1	1	0.6	1	1.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -7A	Pickup, 1/2T, 2wd	Materials from Sacramento	19	400	0.6	706	37	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
LR CBP-CBE -7A	Truck, Flatbed, 10T, Hwy	Two Cranes and Aerial Lift to and from Sacramento	2	3	0.6	6	3.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -7B	Pickup, 1/2T, 2wd	Materials from Sacramento	19	400	0.6	706	37	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
LR CBP-CBE -7B	Truck, Flatbed, 10T, Hwy	Two Cranes and Aerial Lift to and from Sacramento	2	3	0.6	6	3.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -8	Pickup, 1/2T, 2wd	Materials from Sacramento	1041	2553	0.6	4506	4	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
LR CBP-CBE -8	Truck, Flatbed, 10T, Hwy	Two Loaders from Sacramento	1	1	0.6	2	2.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -8	Truck' End Dump' 16-20cy' Hwy	Cement from Sacramento	1041	1027	0.6	1813	2	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -8	Truck' End Dump' 16-20cy' Hwy	Concrete Aggregate from Sacramento	1041	1923	0.6	3394	3	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -8	Truck' End Dump' 16-20cy' Hwy	Concrete Sand from Sacramento	1041	1535	0.6	2709	3	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -8	Truck' End Dump' 16-20cy' Hwy	Fluxash from Sacramento	1041	150	0.6	264	0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -9	Pickup, 1/2T, 2wd	Materials from Sacramento	1118	1732	0.6	6386	5	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
LR CBP-CBE -9	Truck' End Dump' 16-20cy' Hwy	Cement from Sacramento	1118	446	0.6	734	1	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -9	Truck' End Dump' 16-20cy' Hwy	Concrete Aggregate from Sacramento	1118	4007	0.6	7072	5	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -9	Truck' End Dump' 16-20cy' Hwy	Concrete Sand from Sacramento	1118	3198	0.6	5644	4	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -9	Truck' End Dump' 16-20cy' Hwy	Fluxash from Sacramento	1118	311	0.6	549	0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -10	Pickup, 1/2T, 2wd	Materials from Sacramento	897	3547	0.6	6260	7	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
LR CBP-CBE -10	Truck, Flatbed, 10T, Hwy	Two Loaders to Sacramento	1	1	0.6	2	2.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -10	Truck' End Dump' 16-20cy' Hwy	Cement from Sacramento	897	1926	0.6	3399	4	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -10	Truck' End Dump' 16-20cy' Hwy	Concrete Aggregate from Sacramento	897	3606	0.6	6363	7	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -10	Truck' End Dump' 16-20cy' Hwy	Concrete Sand from Sacramento	897	2877	0.6	5077	6	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -10	Truck' End Dump' 16-20cy' Hwy	Fluxash from Sacramento	897	280	0.6	494	1	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -11	Pickup, 1/2T, 2wd	Materials from Sacramento	900	3547	0.6	6260	7	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
LR CBP-CBE -11	Truck, Flatbed, 10T, Hwy	Two Loaders to Sacramento	1	1	0.6	2	2.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -11	Truck' End Dump' 16-20cy' Hwy	Cement from Sacramento	900	1926	0.6	3399	4	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -11	Truck' End Dump' 16-20cy' Hwy	Concrete Aggregate from Sacramento	900	3606	0.6	6363	7	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -11	Truck' End Dump' 16-20cy' Hwy	Concrete Sand from Sacramento	900	2877	0.6	5077	6	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -11	Truck' End Dump' 16-20cy' Hwy	Fluxash from Sacramento	900	280	0.6	494	1	Franklin Boulevard to/from Sacramento	17	34	Diesel		
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) — on the Construction Site													
LR CBP-CBE -1	CAT 730 30T, Articulated End Dump	Dumpers	6	766.65	not applicable	not applicable	not applicable	on-the-assume 5 miles/hour		3833	Diesel Tier 4 or Hybrid Diesel		
LR CBP-CBE -1	Truck, End Dump, 10-13cy, Hwy	Dumpers	6	766.65	not applicable	not applicable	not applicable	on-the-assume 5 miles/hour		3833	Diesel		

Employees Required to Lambert Rd Conc Batch Plant - Central & Eastern Options 9A, 9B, 10A, 10B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip
LR CBP-C&E -1	Operator G4 Dozer & Push Cat	255.55	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -1	Operator G2 Excavator 3.5 to 7.0	255.55	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -1	OPERATING ENGINEER FOREMAN	127.75	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -1	Teamster G2 Hwy ED 6-8cy, Wate	766.65	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -1	Teamster G3 ED 8-24cy, Water>7	766.65	10		Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-1						
LR CBP-C&E -2	Laborer G2 General	3.65	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -2	Operator G5 Compactor w-blade	30.55	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -2	Operator G4 Dozer & Push Cat	30.55	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -2	OPERATING ENGINEER FOREMAN	30.55	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -2	Operator G2 Finish Blade	15.3	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -2	Teamster G2 Hwy ED 6-8cy, Water<7	15.3	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -2	Teamster G3 ED 8-24cy, Water>7	15.3	10		Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-2						
LR CBP-C&E -3	Laborer G1 Pipe layers	55.55	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -3	Laborer Foreman	13.9	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -3	Operator G3 BH-Loader>3/4cy	27.8	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -3	Teamster G1 Hwy ED<6cy, Flatbed	20.85	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -3	Teamster G2 Hwy ED 6-8cy, Water<7	6.95	10		Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-3						
LR CBP-C&E -4	Laborer G1 Pipe layers	12.5	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -4	Laborer G1 Power Tamper	6.25	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -4	Operator G4 Loader <4.1cy	3.15	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -4	Teamster G2 Hwy ED 6-8cy, Water<7	6.25	10		Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-4						
LR CBP-C&E -5	Laborer G3 Flagman	216.25	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -5	Operator G7 Roller, Compactor	108.1	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -5	OPERATING ENGINEER FOREMAN	108.1	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -5	Operator G4 Grade Check	108.1	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -5	Operator G2 Finish Blade	108.1	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -5	Operator G8 Generator	21.6	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -5	Teamster G2 Hwy ED 6-8cy, Water<7	108.1	10		Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-5						
LR CBP-C&E -6	Laborer G2 General	498.35	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -6	Operator G5 Asphalt Roller	249.2	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -6	Operator G3 BH-Loader>3/4cy	124.6	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -6	OPERATING ENGINEER FOREMAN	124.6	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -6	Operator G4 Grade Check	124.6	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -6	Operator G5 Paver	124.6	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -6	Teamster G2 Hwy ED 6-8cy, Water<7	62.3	10		Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-6						
LR CBP-C&E -7A	Carpenter Apprentice	400	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7A	Carpenter Foreman	400	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7A	Millwright	400	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7A	Electrical Foreman	200	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7A	Electrician Journeyman	400	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7A	Iron Worker Journeyman Rebar/Stru	800	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7A	Laborer G2 General	800	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7A	Operator G2a Cranes 45 to 100 t	400	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7A	Teamster G3 Boom Truck	200	10		Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-7A						
LR CBP-C&E -7B	Carpenter Apprentice	400	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7B	Carpenter Foreman	400	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7B	Millwright	400	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7B	Electrical Foreman	200	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7B	Electrician Journeyman	200	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7B	Iron Worker Journeyman Rebar/Stru	800	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7B	Laborer G2 General	800	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7B	Operator G2a Cranes 45 to 100 t	400	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7B	Teamster G3 Boom Truck	200	10		Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-7B						
LR CBP-C&E -8	Laborer G4 Clean-up	5106	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -8	Operator G3 Loader >4cy	7659	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -8	OPERATING ENGINEER FOREMAN	2553	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -8	Operator G5 Concrete Conveyor	2553	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -8	Operator G2 Plant Operator	2553	10		Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-8						

LR CBP-C&E -9	Laborer G4 Clean-up	11196.26	10	Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -9	Operator G3 Loader >4cy	11196.26	10	Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -9	OPERATING ENGINEER FOREMAN	3732.09	10	Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -9	Operator G5 Concrete Conveyor	3732.09	10	Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -9	Operator G2 Plant Operator	3732.09	10	Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-9					
LR CBP-C&E -10	Laborer G4 Clean-up	7094.4	10	Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -10	Operator G3 Loader >4cy	10641.6	10	Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -10	OPERATING ENGINEER FOREMAN	3547.2	10	Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -10	Operator G5 Concrete Conveyor	3547.2	10	Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -10	Operator G2 Plant Operator	3547.2	10	Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-10					
LR CBP-C&E -11	Laborer G4 Clean-up	7094.4	10	Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -11	Operator G3 Loader >4cy	10641.6	10	Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -11	OPERATING ENGINEER FOREMAN	3547.2	10	Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -11	Operator G5 Concrete Conveyor	3547.2	10	Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -11	Operator G2 Plant Operator	3547.2	10	Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-11					

Marine Inventory for Lambert Rd Conc Batch Plant - Central & Eastern
Options 9A, 9B, 10A, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Lambert Rd Conc Batch Plant - Central & Eastern
Options 9A, 9B, 10A, 10B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Lambert Rd Conc Batch Plant - Central & Eastern
Options 9A, 9B, 10A, 10B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assn
Options 9A, 9B, 10A, 10B

[illegible]

**Demolition Assumptions for Lambert Rd Conc Batch Plant - Central & Eastern
Options 9A, 9B, 10A, 10B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Dierssen Rd - Central & Eastern Access Road Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	DRd-C&E Access -1	1/18/2027	1/21/2027	4	4	10
Embankment	DRd-C&E Access -2	1/22/2027	1/26/2027	5	5	10
Culvert Pipe	DRd-C&E Access -3	1/27/2027	1/27/2027	1	1	10
Subdrain System	DRd-C&E Access -4	1/28/2027	2/9/2027	9	5	10
Road Base	DRd-C&E Access -5	2/10/2027	2/18/2027	7	5	10
Asphalt Paving	DRd-C&E Access -6	2/19/2027	2/22/2027	4	4	10
KRail and Signs	DRd-C&E Access -7	2/23/2027	3/16/2027	14	5	10
Intermediate Overlay	DRd-C&E Access -8	5/22/2030	5/24/2030	3	3	10
Final Overlay	DRd-C&E Access -9	7/21/2037	7/24/2037	4	4	10

Acres

7.2

Construction Schedule for Franklin Blvd RR - Central & Eastern Access Road
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Sub-Ballast	FB RR-C&E Access -1	6/10/2026	6/25/2026	12	5	10
Ballast	FB RR-C&E Access -2	6/26/2026	7/14/2026	15	5	10
Track	FB RR-C&E Access -3	7/15/2026	8/27/2026	32	5	10

Construction Schedule for Franklin Blvd - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	FB-C&E Access -1	11/24/2026	11/30/2026	5	5	10
Embankment	FB-C&E Access -2	12/1/2026	12/16/2026	12	5	10
Culvert Pipe	FB-C&E Access -3	12/17/2026	12/17/2026	1	1	10
Subdrain System	FB-C&E Access -4	12/18/2026	12/28/2026	9	5	10
Road Base	FB-C&E Access -5	12/29/2026	1/15/2027	14	5	10
Asphalt Paving	FB-C&E Access -6	1/18/2027	1/21/2027	4	4	10
KRail and Signs	FB-C&E Access -7	1/22/2027	1/22/2027	1	1	10
Intermediate Overlay	FB-C&E Access -8	5/27/2030	5/29/2030	3	3	10
Final Overlay	FB-C&E Access -9	7/24/2037	7/29/2037	4	4	10

Acres

5

Construction Schedule for Twin Cities Ring Levee - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Construct Ring Levee	TCC RL-C&E -1	2/28/2028	6/19/2028	96	5	10

Acres44.8

Construction Schedule for Twin Cities Rd - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	TC Rd-C&E Access -1	1/5/2026	1/7/2026	3	3	10
Culvert Pipe & Subdrain System	TC Rd-C&E Access -2	1/8/2026	1/19/2026	10	5	10
Road Base	TC Rd-C&E Access -3	1/20/2026	2/9/2026	15	5	10
Asphalt Paving & KRail and Signs	TC Rd-C&E Access -4	2/10/2026	2/16/2026	5	5	10
Intermediate Overlay	TC Rd-C&E Access -5	6/10/2030	6/12/2030	3	3	10
Final Overlay	TC Rd-C&E Access -6	9/30/2037	10/5/2037	5	5	10

Acres **3.9**

Construction Schedule for Twin Cities Complex - Central Tunnel Shaft
Options 9A, 9B

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Mobilize, Excavate, & Mobilize	TCC-Central - 1	1/5/2026	5/8/2028	611	5	10
Embankment	TCC-Central - 2	3/12/2026	4/21/2026	29	5	10
Subdrain	TCC-Central - 3	4/22/2026	6/9/2026	34	5	10
Management, Engineering, & Field Labor - Reach 2	TCC-Central - 4	3/17/2027	3/9/2038	2862	5	10
Clear and Grub	TCC-Central - 5	5/12/2027	7/12/2027	44	5	10
Excavation, Grading, & Compaction - Reach 2	TCC-Central - 6	3/17/2027	4/24/2028	289	5	10
Raise Shaft Pad for Reach 2	TCC-Central - 7	9/7/2027	4/3/2028	149	5	10
Set Strips, & Concrete for Reach 2	TCC-Central - 8	8/16/2027	11/12/2027	65	5	10
Place Guide Walls Concrete for Reach 2	TCC-Central - 9	4/3/2028	4/26/2028	18	5	10
Slurry Wall, Place Concrete & Rebar, Slurry Wall, Remove Guide Wall, & add Top Beam for Reach 2	TCC-Central - 10	4/27/2028	8/17/2028	81	5	10
Place Guide Walls Concrete for Reach 1	TCC-Central - 11	8/8/2028	8/28/2028	15	5	10
Slurry Wall, Place Concrete & Rebar, Slurry Wall, Remove Guide Wall, & add Top Beam for Reach 1	TCC-Central - 12	8/29/2028	1/4/2029	93	5	10
Excavate Shaft for Reach 2	TCC-Central - 13	1/4/2029	4/4/2029	65	5	10
Management, Engineering, & Field Labor - Reach 1	TCC-Central - 14	3/21/2029	11/4/2036	1990	5	10
Shaft Setup for Reach 1	TCC-Central - 15	3/21/2029	4/18/12029	21	5	10
Excavate Shaft for Reach 1	TCC-Central - 16	4/4/2029	7/3/2029	65	5	10
Place Tremie Seal Rebar, Cooling Pipes, & Seal for Reaches 1 & 2	TCC-Central - 17	6/19/2029	8/2/2029	45	7	24
Dewater Shaft for Reaches 1 & 2	TCC-Central - 18	7/17/2029	8/7/2029	21	7	24
Place TBM Cradle Rebar and Cradle Pour for Reaches 1 & 2	TCC-Central - 19	8/2/2029	8/20/2029	14	5	10
Breakout Slurry Wall for TBM for Reaches 1 & 2	TCC-Central - 20	8/6/2029	9/17/2029	41	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner Reaches 1 & 2	TCC-Central - 21	9/3/2029	1/9/2030	93	5	10
Erect Gantry Crane for Reaches 1 & 2	TCC-Central - 22	11/16/2029	12/10/2029	18	5	10
TBM Assembly including Shaft Utilities for Reach 2	TCC-Central - 23	12/10/2029	6/6/2030	105	5	10
Tunneling Operations including Equipment Delivery for Reach 2	TCC-Central - 24	3/28/2030	11/3/2037	2380	6	20
TBM Assembly including Shaft Utilities for Reach 1	TCC-Central - 25	10/2/2030	1/1/2031	65	5	10
Tunneling Operations including Equipment Delivery for Reach 1	TCC-Central - 26	7/17/2030	8/20/2036	1907	6	20
Remove TBM and Tunnel Equipment for Reach 1	TCC-Central - 27	8/20/2036	11/4/2036	55	5	10
Remove TBM and Tunnel Equipment for Reach 2	TCC-Central - 28	11/4/2036	2/24/2038	342	5	10
Site Restoration	TCC-Central - 29	2/23/2038	8/30/2028	135	5	10

Total Site Acres

507

Offroad Equipment (Fossil Fuel) Inventory for Twin Cities Complex - Central Tunnel Shaft
Options 9A, 9B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
TCC-Central - 1	Air Compressor 185 CFM	Air Compressor	405.7	611	0.7	Diesel Tier 4	49	0.48		
TCC-Central - 1	Boom Truck, 12.5 Tn Boom	Crane	202.8	611	0.3	Diesel or Hybrid	100	0.29		
TCC-Central - 1	CAT D6LGPDozer w winch	Crawler Tractor	364.4	611	0.6	Diesel or Hybrid	179	0.43		
TCC-Central - 1	CAT Forklift 5,500 LB	Aerial Lift	28000.2	611	45.8	Diesel	63	0.31		
TCC-Central - 1	Grove RT Crane 30T	Crane	11200.1	611	0.0	Diesel	160	0.29		
TCC-Central - 1	Hydraulic 40 Ton Crane	Crane		611	0.0	Diesel	300	0.29		
TCC-Central - 1	Hydraulic 9 Ton Crane	Crane		611	0.0	Diesel	85	0.29		
TCC-Central - 1	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	182.2	611	0.3	Diesel	384	0.38		
TCC-Central - 1	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	199.2	611	0.3	Diesel or Hybrid	75	0.31		
TCC-Central - 2	CAT 14 M	Grader	116.4	29	4.0	Diesel	274	0.41		
TCC-Central - 2	CAT 825, Roller	Rollers	232.8	29	8.0	Diesel	315	0.38		
TCC-Central - 2	CAT D6LGPDozer w winch	Crawler Tractor	232.8	29	8.0	Diesel or Hybrid	179	0.43		
TCC-Central - 2	Disk, Towed	Off-Highway Tractor	232.8	29	8.0	Diesel	140	0.44		
TCC-Central - 2	Water Pump 4" Electric	Pumps	27.9	29	1.0	Diesel	10	0.74		
TCC-Central - 3	CAT LOADER/HOE 416 E	Rubber Tired Loader	87.31	34	2.6	Diesel	78	0.36		
TCC-Central - 3	Compactor, Trench Roller, Vib 32"w	Roller	174.63	34	5.1	Diesel	20	0.38		
TCC-Central - 5	CAT D8 Dozer	Crawler Tractor	1039.5	44	23.6	Diesel Tier 4 or Hybrid Diesel	179	0.43		
TCC-Central - 5	Grader 16H - 16' Blade	Grader	1039.5	44	23.6	Diesel	285	0.41		
TCC-Central - 5	623G Scraper Elevate 21 CY	Scaper	2079.0	44	47.3	Diesel	359	0.48		
TCC-Central - 6	CAT 825H Compactor	Rollers	252	289	0.9	Diesel	145	0.38		
TCC-Central - 6	CAT CB-634D Vibratory 84"	Rollers	252	289	0.9	Diesel	315	0.38		
TCC-Central - 6	CAT Grader 16H	Grader	252	289	0.9	Diesel	285	0.41		
TCC-Central - 6	CAT 980 Loader 7.5 CY	Grader	252	289	0.9	Diesel	285	0.41		
TCC-Central - 6	CAT D8 Dozer	Crawler Tractor	4541.7	289	15.7	Diesel Tier 4 or Hybrid Diesel	179	0.43		
TCC-Central - 6	623G Scraper Elevate 21 CY	Scaper	8579.5	289	29.7	Diesel	359	0.48		
TCC-Central - 6	CAT Forklift 5,500 LB	Aerial Lift	400	289	1.4	Diesel	63	0.31		
TCC-Central - 6	Hydraulic 40 Ton Crane	Crane	400	289	1.4	Diesel	300	0.29		
TCC-Central - 6	Hydraulic 9 Ton Crane	Crane	875.9	289	3.0	Diesel	85	0.29		
TCC-Central - 7	CAT CB-634D Vibratory 84"	Rollers	1676.0	149	11.2	Diesel	315	0.38		
TCC-Central - 7	CAT Grader 16H	Grader	1676.0	149	11.2	Diesel	285	0.41		
TCC-Central - 7	CAT D8 Dozer	Crawler Tractor	1676.0	149	11.2	Diesel Tier 4 or Hybrid Diesel	179	0.43		
TCC-Central - 9	CAT Hyd Excavator 1CY	Excavator	10	18	0.6	Diesel	138	0.38		
TCC-Central - 9	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	10	18	0.6	Diesel or Hybrid	130	0.36		
TCC-Central - 10	1600 CFM Compressor Diesel	Air Compressor	530.1	81	6.5	Diesel Tier 4	540	0.48		
TCC-Central - 10	250 CFM Compressor Diesel	Air Compressor	14.6	81	0.2	Diesel Tier 3	75	0.48		
TCC-Central - 10	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	926.6	81	11.4	Diesel or Hybrid	130	0.36		
TCC-Central - 10	CAT Hyd Excavator 1CY	Excavator	396.5	81	4.9	Diesel	138	0.38		
TCC-Central - 10	Hydraulic 55 Ton Crane	Crane	1060.2	81	13.1	Diesel	350	0.29		
TCC-Central - 10	Hydraulic Excavator to 3.5 tons = Kobelco SK485LC' 2.75cy 345 hp Excavator	Excavator	396.5	81	4.9	Diesel	345	0.38		
TCC-Central - 10	Manitowoc 777 200 Ton Crane	Crane	1060.2	81	13.1	Diesel	760	0.29		
TCC-Central - 10	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	530.1	81	6.5	Diesel	8	0.56		
TCC-Central - 10	Slurry Wall Techniwell	Pumps	530.1	81	6.5	Diesel	500	0.74		
TCC-Central - 11	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	10	15	0.7	Diesel or Hybrid	130	0.36		
TCC-Central - 11	CAT Hyd Excavator 1CY	Excavator	10	15	0.7	Diesel	138	0.38		
TCC-Central - 12	1600 CFM Compressor Diesel	Air Compressor	530.1	93	5.7	Diesel Tier 4	540	0.48		
TCC-Central - 12	250 CFM Compressor Diesel	Air Compressor	14.6	93	0.2	Diesel Tier 3	75	0.48		
TCC-Central - 12	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	926.6	93	10.0	Diesel or Hybrid	130	0.36		
TCC-Central - 12	CAT Hyd Excavator 1CY	Excavator	396.5	93	4.3	Diesel	138	0.38		
TCC-Central - 12	Hydraulic 55 Ton Crane	Crane	1060.2	93	11.4	Diesel	350	0.29		
TCC-Central - 12	Hydraulic Excavator to 3.5 tons =	Excavator	396.5	93	4.3	Diesel	345	0.38		
TCC-Central - 12	Manitowoc 777 200 Ton Crane	Crane	1060.2	93	11.4	Diesel	760	0.29		
TCC-Central - 12	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	530.1	93	5.7	Diesel	8	0.56		
TCC-Central - 12	Slurry Wall Techniwell	Pumps	530.1	93	5.7	Diesel	500	0.74		
TCC-Central - 13	Manitowoc 777 200 Ton Crane	Crane	749.1	65	11.5	Diesel	760	0.29		
TCC-Central - 15	1600 CFM Compressor Diesel	Air Compressor	133.3	21	6.3	Diesel Tier 4	540	0.48		
TCC-Central - 15	CAT Forklift 5,500 LB	Aerial Lift	400	21	19.0	Diesel	63	0.31		
TCC-Central - 15	Heavy Duty Mechanic Welder	Welder	133.3	21	6.3	Diesel	400	0.45		
TCC-Central - 15	Hydraulic 25 Ton Crane	Crane	133.3	21	6.3	Diesel	100	0.29		
TCC-Central - 15	Hydraulic 40 Ton Crane	Crane	400	21	19.0	Diesel	300	0.29		
TCC-Central - 15	Hydraulic 9 Ton Crane	Crane	400	21	19.0	Diesel	85	0.29		
TCC-Central - 15	Telescope RT Forklift 5500	Forklift	133.3	21	6.3	Diesel	63	0.2		
TCC-Central - 15	Truck Crane Lattice Boom 90T	Crane	133.3	21	6.3	Diesel Tier 4	300	0.29		
TCC-Central - 16	Manitowoc 777 200 Ton Crane	Crane	749.1	65	11.5	Diesel	760	0.29		
TCC-Central - 17	Manitowoc 777 200 Ton Crane	Crane	560.3	45	12.5	Diesel	760	0.29		
TCC-Central - 17	Hydraulic 40 Ton Crane	Crane	167	45	3.7	Diesel	300	0.29		
TCC-Central - 17	Hydraulic 25 Ton Crane	Crane	414.6	45	9.2	Diesel	100	0.29		
TCC-Central - 18	Hydraulic 15 Ton Crane	Crane	208.7	21	9.9	Diesel	85	0.29		
TCC-Central - 18	Dewater Pump 6"	Pump	834.8	21	39.8	Diesel	50	0.74		
TCC-Central - 18	150 KW Diesel Generator	Generator	104.3	21	5.0	Diesel Tier 4	183	0.74		
TCC-Central - 19	Manitowoc 777 200 Ton Crane	Crane	119.5	14	8.5	Diesel	760	0.29		
TCC-Central - 19	Trailer Conc Pump 100 CY HR	Pump	44.5	14	3.2	Diesel	200	0.74		
TCC-Central - 19	250 CFM Compressor Diesel	Air Compressor	44.5	14	3.2	Diesel Tier 3	75	0.48		
TCC-Central - 20	250 CFM Compressor Diesel	Air Compressor	568.1	41	13.9	Diesel Tier 3	75	0.48		
TCC-Central - 20	Manitowoc 777 200 Ton Crane	Crane	568.1	41	13.9	Diesel	760	0.29		
TCC-Central - 21	250 CFM Compressor Diesel	Air Compressor	1094.7	93	11.8	Diesel Tier 3	75	0.48		
TCC-Central - 21	Manitowoc 777 200 Ton Crane	Crane	743.7	93	8.0	Diesel	760	0.29		
TCC-Central - 21	Trailer Conc Pump 100 CY HR	Pump	460.3	93	4.9	Diesel	200	0.74		

TCC-Central - 21	Manitowoc 999-275 Ton Crane	Crane	510.9	93	5.5	Diesel	900	0.29
TCC-Central - 22	1600 CFM Compressor Diesel	Air Compressor	133.3	18	7.4	Diesel Tier 4	540	0.48
TCC-Central - 22	Hydraulic 25 Ton Crane	Crane	133.3	18	7.4	Diesel	100	0.29
TCC-Central - 22	Truck Crane Lattice Boom 90T	Crane	133.3	18	7.4	Diesel Tier 4	300	0.29
TCC-Central - 22	Telescope RT Forklift 5500	Forklift	133.3	18	7.4	Diesel	63	0.2
TCC-Central - 22	Heavy Duty Mechanic Welder	Welder	133.3	18	7.4	Diesel	400	0.45
TCC-Central - 23	250 CFM Compressor Diesel	Air Compressor	1916.7	105	18.3	Diesel Tier 3	75	0.48
TCC-Central - 23	Hydraulic 40 Ton Crane	Crane	2978.3	105	28.4	Diesel	300	0.29
TCC-Central - 23	Air Compressor 185 CFM	Air Compressor	22.6	105	0.2	Diesel Tier 4	49	0.48
TCC-Central - 23	Boom Truck, 12.5 Tn Boom	Crane	11.3	105	0.1	Diesel or Hybrid	100	0.29
TCC-Central - 23	CAT Forklift 5,500 LB	Aerial Lift	1895	105	18.0	Diesel	63	0.31
TCC-Central - 23	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	11.3	105	0.1	Diesel or Hybrid	75	0.31
TCC-Central - 24	250 CFM Compressor Diesel	Air Compressor	26383.3	2380	11.1	Diesel Tier 3	75	0.48
TCC-Central - 24	Hydraulic 40 Ton Crane	Crane	10896.7	2380	4.6	Diesel	300	0.29
TCC-Central - 24	Hydraulic 9 Ton Crane	Crane	10896.7	2380	4.6	Diesel	85	0.29
TCC-Central - 24	CAT Forklift 5,500 LB	Aerial Lift	10896.7	2380	4.6	Diesel	63	0.31
TCC-Central - 24	CAT D8 Dozer	Crawler Tractor	13454	2380	5.7	Diesel Tier 4 or Hybrid Diesel	179	0.43
TCC-Central - 24	CAT 988 H Wheel Loader	Rubber Tired Loader	13454	2380	5.7	Diesel	400	0.36
TCC-Central - 24	Grout Pump	Cement & Mortar Mix	1281.7	2380	0.5	Diesel	500	0.56
TCC-Central - 24	Grout Mixer	Cement & Mortar Mix	1281.7	2380	0.5	Diesel	70	0.56
TCC-Central - 24	Manitowoc 777 200 Ton Crane	Crane	46685.6	2380	19.6	Diesel	760	0.29
TCC-Central - 25	250 CFM Compressor Diesel	Air Compressor	1916.7	65	29.5	Diesel Tier 3	75	0.48
TCC-Central - 25	Hydraulic 40 Ton Crane	Crane	750	65	11.5	Diesel	300	0.29
TCC-Central - 26	250 CFM Compressor Diesel	Air Compressor	19932.1	1907	10.5	Diesel Tier 3	75	0.48
TCC-Central - 26	Hydraulic 40 Ton Crane	Crane	10626.6	1907	5.6	Diesel	300	0.29
TCC-Central - 26	Hydraulic 9 Ton Crane	Crane	10626.6	1907	5.6	Diesel	85	0.29
TCC-Central - 26	CAT Forklift 5,500 LB	Aerial Lift	10626.6	1907	5.6	Diesel	63	0.31
TCC-Central - 26	CAT D8 Dozer	Crawler Tractor	10426.2	1907	5.5	Diesel Tier 4 or Hybrid Diesel	179	0.43
TCC-Central - 26	CAT 988 H Wheel Loader	Rubber Tired Loader	10426.2	1907	5.5	Diesel	400	0.36
TCC-Central - 26	Grout Pump	Cement & Mortar Mix	982.9	1907	0.5	Diesel	500	0.56
TCC-Central - 26	Grout Mixer	Cement & Mortar Mix	982.9	1907	0.5	Diesel	70	0.56
TCC-Central - 27	1600 CFM Compressor Diesel	Air Compressor	83.3	55	1.5	Diesel Tier 4	540	0.48
TCC-Central - 27	Heavy Duty Mechanic Welder	Welder	83.3	55	1.5	Diesel	400	0.45
TCC-Central - 27	Hydraulic 25 Ton Crane	Crane	83.3	55	1.5	Diesel	100	0.29
TCC-Central - 27	Hydraulic 55 Ton Crane	Crane	595.8	55	10.8	Diesel	350	0.29
TCC-Central - 27	Manitowoc 777 200 Ton Crane	Crane	595.8	55	10.8	Diesel	760	0.29
TCC-Central - 27	Telescope RT Forklift 5500	Forklift	779.1	55	14.2	Diesel	63	0.2
TCC-Central - 27	Truck Crane Lattice Boom 90T	Crane	83.3	55	1.5	Diesel Tier 4	300	0.29
TCC-Central - 28	1600 CFM Compressor Diesel	Air Compressor	83.3	342	0.2	Diesel Tier 4	540	0.48
TCC-Central - 28	Heavy Duty Mechanic Welder	Welder	83.3	342	0.2	Diesel	400	0.45
TCC-Central - 28	Hydraulic 25 Ton Crane	Crane	83.3	342	0.2	Diesel	100	0.29
TCC-Central - 28	Hydraulic 55 Ton Crane	Crane	1029.2	342	3.0	Diesel	350	0.29
TCC-Central - 28	Hydraulic 9 Ton Crane	Crane	83.5	342	0.2	Diesel	85	0.29
TCC-Central - 28	Manitowoc 777 200 Ton Crane	Crane	595.8	342	1.7	Diesel	760	0.29
TCC-Central - 28	Telescope RT Forklift 5500	Forklift	825	342	2.4	Diesel	63	0.2
TCC-Central - 28	Truck Crane Lattice Boom 90T	Crane	83.3	342	0.2	Diesel Tier 4	300	0.29
TCC-Central - 29	Air Compressor 185 CFM	Air Compressor	33.9	135	0.3	Diesel Tier 4	49	0.48
TCC-Central - 29	Boom Truck, 12.5 Tn Boom	Crane	22.6	135	0.2	Diesel or Hybrid	100	0.29
TCC-Central - 29	CAT 12 M	Grader	757.6	135	5.6	Diesel	173	0.41
TCC-Central - 29	CAT 390 MASS EXC	Excavator	735	135	5.4	Diesel	534	0.38
TCC-Central - 29	Cat 6 mgal w/ CAT 725 Tractor, 320hp	Crawler Tractor	782.3	135	5.8	Diesel	320	0.43
TCC-Central - 29	CAT 621G Scraper, Conventional	Scraper	525	135	3.9	Diesel	330	0.48
TCC-Central - 29	CAT 631G Scraper, Conventional	Scraper	1732.5	135	12.8	Diesel	515	0.48
TCC-Central - 29	CAT 815, Roller	Rollers	525	135	3.9	Diesel	170	0.38
TCC-Central - 29	CAT 966 GII Wheel Loader	Rubber Tired Loader	105	135	0.8	Diesel	170	0.36
TCC-Central - 29	CAT 966 Loader 5.5 CY	Rubber Tired Loader	216.9	135	1.6	Diesel	286	0.36
TCC-Central - 29	CAT 988 H Wheel Loader	Rubber Tired Loader		135	0.0	Diesel	400	0.36
TCC-Central - 29	CAT D8Rii, Dozer w winch	Crawler Tractor	2258.5	135	16.7	Diesel	310	0.43
TCC-Central - 29	CAT D9R, Dozer w ripper	Crawler Tractor	1638	135	12.1	Diesel	410	0.43
TCC-Central - 29	CAT Hyd Excavator 1CY	Excavator	216.9	135	1.6	Diesel	138	0.38
TCC-Central - 29	Disk, Towed	Off-Highway Tractor	294	135	2.2	Diesel	140	0.44
TCC-Central - 29	Farm Tractor, All Wheel Drive, 285 HP	Off-Highway Tractor	850.5	135	6.3	Diesel	80	0.44
TCC-Central - 29	Hydro Mulcher, 18 HP	Pump	105	135	0.8	Diesel	25	0.29
TCC-Central - 29	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	2205	135	16.3	Diesel	345	0.38
TCC-Central - 29	Manitowoc 777 200 Ton Crane	Crane	216.9	135	1.6	Diesel	760	0.29
TCC-Central - 29	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	11.3	135	0.1	Diesel or Hybrid	75	0.31

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Twin Cities Complex - Central Tunnel Shaft
Options 9A, 9B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
TCC-Central - 1	400A, Electric Welde	405.7	611	0.25	0
TCC -Central - 2	Light Plant, 4 lite, 1000w, Tower/Mast	931.3	29		
TCC-Central - 10	Gantry Crane		81	0.25	0
TCC-Central - 23	400A, Electric Welder	22.6	105	0.25	0
TCC-Central - 23	Gantry Crane	958.3	105	0.25	2
TCC-Central - 23	Axial Fan 114,000 CFM	1375	105	50	655
TCC-Central - 24	Gantry Crane	55424.6	2380	0.25	6
TCC-Central - 24	Axial Fan 114,000 CFM	301205	2380	50	6,328
TCC-Central - 25	Gantry Crane	1375	65	0.25	5
TCC-Central - 25	Axial Fan 114,000 CFM	1791.7	65	50	1,378
TCC-Central - 26	Gantry Crane	37776.2	1907	0.25	5
TCC-Central - 26	Axial Fan 114,000 CFM	199936.4	1907	50	5,242
TCC-Central - 27	Gantry Crane	695.8	55	0.25	3
TCC-Central - 28	Gantry Crane	741.7	342	0.25	1
TCC-Central - 29	400A, Electric Welder	330.9	135	0.25	1

Electricity for TBM Operations included in the Summary Workbook

Vehicle Inventory for Twin Cities Complex - Central Tunnel Shaft
Options 9A, 9B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. office)	# day	Vehicle Hours	Hours/Trip	# of Vehicles/Trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
TCC-Central - 1	Pickup, 1/2T, 2wd	Materials from Sacramento	611	28896.8	0.6	50994	83.5	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 1	Pickup, 3/4T, 4wd	Materials from Stockton	611	74200.0	1.1	69563	113.9	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline	
TCC-Central - 1	Truck Flatbed 4 T Highway	Materials from Sacramento	611	28400.1	0.6	50118	82.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 1	Truck, Flatbed, 10T, Hwy	Crane, Tractor and Aerial Lift from Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 1	Truck, Flatbed, 10T, Hwy	Excavator, Two Cranes, Aerial Lift from and to Sacramento	2	2.3	0.6	4	2.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 2	Pickup, 1/2T, 2wd	Materials from Sacramento	29	232.8	0.6	411	14.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 2	Truck, Flatbed, 10T, Hwy	Roller from Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 2	Truck, Flatbed, 10T, Hwy	Tractor to Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 2	Truck, Flatbed, 10T, Hwy	Grader from and to Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 3	Truck, Flatbed, 10T, Hwy	Loader from and to Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 5	Truck, Flatbed, 10T, Hwy	Dozer, Scraper, and Grader from Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 6	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	289	134.9	0.6	238	0.8	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 6	Truck Flatbed 4 T Highway	Rebar from Sacramento	289	8.5	0.6	15	0.1	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 6	Truck, Flatbed, 10T, Hwy	Roller from Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 6	Truck, Flatbed, 10T, Hwy	Roller, Grader, and Scraper to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 6	Truck, Flatbed, 10T, Hwy	Loader from and to Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 7	Highway Dump Truck 18 CY	Materials from Sacramento	149	96.3	0.6	170	1.1	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 7	Truck, Flatbed, 10T, Hwy	Grader from Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 7	Truck, Flatbed, 10T, Hwy	Two Cranes from and to Sacramento	2	2.3	0.6	4	2.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 8	Truck Flatbed 4 T Highway	Rebar from Sacramento	65	8.5	0.6	15	0.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 8	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	65	41.6	0.0	1249	19.2	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 8	Truck, Flatbed, 10T, Hwy	Dozer, Grader, and Roller to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 8	Truck, Flatbed, 10T, Hwy	Crane from and to Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 9	Truck, Flatbed, 10T, Hwy	Excavator and Loader from Sacramento	1	1.1	0.6	2	2.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 9	Truck Flatbed 4 T Highway	Rebar from Sacramento	18	34.6	0.6	61	3.4	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 9	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	18	46.5	0.0	1396	77.6	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 9	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	18	100.3	0.6	177	9.8	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 10	Truck, Flatbed, 10T, Hwy	Excavator and Two Cranes from Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 10	Truck Flatbed 4 T Highway	Rebar from Sacramento	81	0.6	0.6	1	0.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 10	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	81	0.6	0.0	19	0.2	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 12	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	93	48.1	0.0	1442	15.5	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 12	Truck Flatbed 4 T Highway	Rebar from Sacramento	93	35.1	0.6	62	0.7	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 12	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	93	100.3	0.6	177	1.9	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 12	Truck, Flatbed, 10T, Hwy	Two Excavators, Loader, and Crane from Sacramento	1	2.3	0.6	4	4.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 14	Truck Flatbed 4 T Highway	Materials from Sacramento	1990	0.6	0.6	1	0.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 15	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	21	96.3	0.6	170	8.1	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 15	Truck, Flatbed, 10T, Hwy	Five Cranes and Aerial Lift from Sacramento	1	3.4	0.6	6	6.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 17	Truck Flatbed 4 T Highway	Rebar from Sacramento	45	19.3	0.6	34	0.8	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 17	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	45	87.4	0.0	2622	58.3	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 18	Truck, Flatbed, 10T, Hwy	Crane from and to Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 18	Truck Flatbed 4 T Highway	Rebar from Sacramento	21	2.8	0.6	5	0.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 18	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	21	3.1	0.0	94	4.5	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 19	Truck Flatbed 4 T Highway	Rebar from Sacramento	14	4.0	0.6	7	0.5	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 19	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	14	3.1	0.0	94	6.7	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 21	Truck Flatbed 4 T Highway	Rebar from Sacramento	93	5.1	0.6	9	0.1	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 21	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	93	30.8	0.0	924	9.9	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 21	Truck Flatbed 10 T Highway	Materials from Sacramento	93	15912.5	0.6	28081	301.9	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 23	Truck Flatbed 10 T Highway	Materials from Sacramento	105	1895.0	0.6	3344	31.8	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 23	Pickup, 1/2T, 2wd	Materials from Sacramento	105	1222.6	0.6	2158	20.5	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 23	Pickup, 3/4T, 4wd	Materials from Stockton	105	1200.0	1.1	1125	0.0	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline	
TCC-Central - 23	Truck, Flatbed, 10T, Hwy	Pre-Cast Segments from Sacramento	105	254.4	0.6	449	4.3	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 23	Concrete Transit Mix Truck 12cy	Pre-Cast Segment Grout from Lambert Batch Plant	105	96.1	0.0	2882	27.4	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 24	Truck Flatbed 4 T Highway	Materials from Sacramento	2380	147.3	0.6	260	0.1	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 24	Truck Flatbed 4 T Highway	Materials from Sacramento	2380	254.4	0.6	449	0.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 24	Truck, Flatbed, 10T, Hwy	Pre-Cast Segment Grout from Lambert Batch Plant	2380	741.1	0.0	22232	9.3	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 24	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	2380	12406.7	0.6	21894	9.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 24	Utility Truck	Materials from Sacramento	1	31750.0	1.1	29766	29765.6	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 25	Truck, Flatbed, 10T, Hwy	Pre-Cast Segment Grout from Lambert Batch Plant	65	71.1	0.0	2133	32.8	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	

TCC Central - 26	All Purpose and Utility Truck	Materials from Stockton	1907	1089.0	1.1	1021	0.5	South Delta Conveyance to/from Stockton	32	64	Diesel
TCC Central - 26	Truck, Flatbed, 10T, Hwy	Pre-Cast Segment Grout from Lambert Batch Plant	1907	488.2	0.0	14645	7.7	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel
TCC Central - 26	Truck, Flatbed, 10T, Hwy	Doser Tractor and Loader Grader to Sacramento	1	1.1	0.6	2	2.0	Twin Cities Complex to/from Sacramento	17	34	Diesel
TCC Central - 26	Truck, Flatbed, 10T, Hwy	Pre-Cast Segments from Sacramento	1907	6343.8	0.6	11195	5.9	Twin Cities Complex to/from Sacramento	17	34	Diesel
TCC Central - 27	All Purpose and Utility Truck	Materials from Stockton	55	1089.0	1.1	0	0	South Delta Conveyance to/from Stockton	32	64	Diesel
TCC Central - 27	Truck, Flatbed, 10T, Hwy	Three Cranes to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel
TCC Central - 28	All Purpose and Utility Truck	Materials from Stockton	342	1316.7	1.1	1234	3.6	South Delta Conveyance to/from Stockton	32	64	Diesel
TCC Central - 28	Truck, Flatbed, 10T, Hwy	Remove TBM to Sacramento	342	83.5	0.6	147	0.4	Twin Cities Complex to/from Sacramento	17	34	Diesel
TCC Central - 28	Truck, Flatbed, 10T, Hwy	Two Aerial Lifts and Crane to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel
TCC Central - 29	Truck, Flatbed, 10T, Hwy	Scraper, Four Tractors, Grader, Roller, Scraper, Loader, and Excavator to/from Sacramento	2	5.7	0.6	10	5.0	Twin Cities Complex to/from Sacramento	17	34	Diesel
TCC Central - 29	Truck, Flatbed, 10T, Hwy	Crane, Two Excavators, to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel
TCC Central - 29	Truck Flatbed 4 T Highway	Materials from Sacramento	135	105.4	0.6	186	1.4	Twin Cities Complex to/from Sacramento	17	34	Diesel
Vehicle Use on Unpaved/Dirt Surface (one access road at park and side lots) -- on the Construction Site											
TCC Central - 1	Articulated Rear Dump 22 CY/CAT 730	Dumers to move fill on-site	611	1093.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	Miles On-Site		Diesel or Hybrid
TCC Central - 2	Cat 30mm w/Cat 770, S11HP	Dumers	29	116.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	5466		Diesel
TCC Central - 3	Truck, End Dump, 10-13cy, Hwy	Dumers	34	174.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	873		Diesel
TCC Central - 7	Truck, End Dump, 10-13cy, Hwy	Dumers	149	1676.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	8380		Diesel
TCC Central - 7	Truck, End Dump, 10-13cy, Hwy	Dumers for Filled from Twin Cities Complex Borrow	149	4918.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	24590		Diesel
TCC Central - 10	CAT 730 Rear Dump	Dumper	81	162	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	809		Diesel or Hybrid
TCC Central - 11	CAT 730 Rear Dump	Dumper	15	162	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	809		Diesel or Hybrid
TCC Central - 12	CAT 730 Rear Dump	Dumper	93	604.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3022		Diesel or Hybrid
TCC Central - 12	Articulated Rear Dump 22 CY/CAT 730	Dumper	93	530.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2651		Diesel or Hybrid
TCC Central - 29	CAT 725 Tractor, 320hp	Dumper	135	782.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3912		Diesel
TCC Central - 29	Truck, End Dump, 10-13cy, Hwy	Dumper	135	9219.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	46095		Diesel
TCC Central - 29	CAT 740-40T, Articulated End dump	Dumper	135	735.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0		Diesel or Hybrid

**Employees Required to Twin Cities Complex - Central Tunnel Shaft
Options 9A, 9B**

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
TCC-Central - 1	Carpenter Apprentice	405.7	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Carpenter Foreman	398.2	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Carpenter Journeyman	796.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Electrical Foreman	199.1	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Electrician Journeyman	796.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Iron Worker Journeyman Rebar/Struct	796.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Laborer G2 General	796.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	OPERATING ENGINEER FOREMAN	91.1	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Operator G2 Excavator 3.5 to 7.0 cy	182.2	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Operator G3a Cranes 45 t and under	11765.7	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Teamster G1 Hwy ED<6cy, Flatbed	28400.1	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Teamster G3 Boom Truck	202.8	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Teamster G3 ED 8-24cy, Water>7mgal	1093.3	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-1						
TCC-Central - 2	Laborer G2 General	27.9	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 2	Operator G5 Compactor w-blade	232.8	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 2	Operator G4 Dozer & Push Cat	232.8	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 2	OPERATING ENGINEER FOREMAN	232.8	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 2	Operator G2 Finish Blade	116.4	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 2	Teamster G3 ED 8-24cy, Water>7mgal	116.4	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-2						
TCC-Central - 3	Laborer G1 Pipe layers	349.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 3	Laborer G1 Power Tamper	174.6	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 3	Operator G3 BH-Loader>3/4cy	87.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 3	Teamster G2 Hwy ED 6-8cy, Water<7mgal	174.6	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-3						
TCC-Central - 4	Concrete Superintendent	23040.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Cost Engineer	23040.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Electrical Superintendent	22218.2	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Environmental Manager	22218.2	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Equipment Superintendent	22218.2	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Field Engineer	17280.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	General Superintendent	23040.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Geotechnical Manager	22218.2	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Office Administrator	23040.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Office Manager	23040.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Payroll Clerk	23040.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Project Engineer	23040.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Project Manager	23040.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Purchasing Agent	23040.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	QC Manager	23040.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	QC Technician	11520.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Runner	23040.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Safety Engineer	44432.6	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Safety Manager	23040.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Schedule Engineer	11520.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Shift Engineers	44432.6	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Survey Party Chief	23040.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Survey Rod Man	23040.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Tunnel Superintendent	22218.2	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Tunnel Walkers	44432.6	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-4						
TCC-Central - 5	General Foreman	495.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 5	Dozer Operator	990.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 5	Grader Operator	990.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 5	Operator G4 Grade Check	495.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 5	Scraper Operator	1980.0	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-5						
TCC-Central - 6	Bulldozer Foreman	400.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Bulldozer Laborer	800.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Carpenter	304.9	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Carpenter Foreman	76.2	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Compactor Operator	480.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Dozer Operator	4325.5	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Flagger	480.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Flat Truck Driver	400.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	General Foreman	2282.7	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	General Laborer	1009.4	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Grade Setter / Checker	240.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Grader Operator	4325.5	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Iron Worker	3770.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Iron Worker Foreman	377.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Loader Operator	240.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Operator G4 Grade Check	2042.7	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Scraper Operator	8170.9	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-6						
TCC-Central - 7	Grade Setter / Checker	1676.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 7	Compactor Operator	1676.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 7	Dozer Operator	1676.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 7	Grader Operator	1676.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 7	Truck Driver	1676.0	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-7						
TCC-Central - 8	General Laborer	280.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 8	Carpenter	1120.0	10		Sacramento to/from Twin Cities Complex	17

TCC-Central - 8	Carpenter Foreman	140.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 8	Truck Driver	560.0	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-8					
TCC-Central - 9	Carpenter	713.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	Carpenter Foreman	178.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	Excavator Operator	10.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	General Laborer	16.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	Lead Miner	10.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	Loader Operator	10.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	Miner	10.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	Shifter	10.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	Truck Driver	159.6	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-9					
TCC-Central - 10	Carpenter	88.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Carpenter Foreman	22.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Crane Oiler	1060.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Excavator Operator	396.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	General Foreman	1456.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	General Laborer	7083.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Hyd Crane Operator	1060.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Iron Worker	5377.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Iron Worker Foreman	1079.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Lead Miner	530.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Loader Operator	926.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Mechanic Welder	1060.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Miner	4240.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Shaft Crane Operator	1060.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Shifter	1590.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Truck Driver	604.3	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-10					
TCC-Central - 11	Carpenter	563.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 11	Carpenter Foreman	140.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 11	Excavator Operator	10.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 11	Lead Miner	10.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 11	Loader Operator	10.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 11	Miner	10.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 11	Shifter	10.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 11	Truck Driver	159.6	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-11					
TCC-Central - 12	Carpenter	239.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Carpenter Foreman	59.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Crane Oiler	1060.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Excavator Operator	396.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	General Foreman	1456.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	General Laborer	7100.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Hyd Crane Operator	1060.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Iron Worker	5377.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Iron Worker Foreman	1079.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Lead Miner	530.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Loader Operator	926.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Mechanic / Welder	1060.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Miner	4240.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Shaft Crane Operator	1060.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Shifter	1590.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Truck Driver	604.3	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-12					
TCC-Central - 13	Shaft Crane Operator	749.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 13	Toplander	749.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 13	Crane Oiler	749.1	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-13					
TCC-Central - 14	Concrete Superintendent	18353.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Cost Engineer	18353.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Electrical Superintendent	17698.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Environmental Manager	17698.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Equipment Superintendent	17698.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Field Engineer	13765.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	General Superintendent	18353.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Geotechnical Manager	17698.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Office Administrator	18353.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Office Manager	18353.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Payroll Clerk	18353.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Project Engineer	18353.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Project Manager	18353.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Purchasing Agent	18353.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	QC Manager	18353.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	QC Technician	9176.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Runner	18353.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Safety Engineer	35396.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Safety Manager	18353.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Schedule Engineer	9176.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Shift Engineers	35396.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Survey Party Chief	18353.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Survey Rod Man	18353.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Tunnel Superintendent	17698.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Tunnel Walkers	35396.3	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-14					
TCC-Central - 15	Bulfgang Foreman	533.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Bulfgang Laborer	1600.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Mechanic / Welder	533.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Hyd Crane Operator	933.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Flat Truck Driver	400.0	10	Sacramento to/from Twin Cities Complex	17

TCC-Central - 15	Master Mechanic	400.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Shaft Crane Operator	133.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Crane Oiler	133.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Heavy Duty Mechanic Welder	133.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Electrician	133.3	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-15					
TCC-Central - 16	Shaft Crane Operator	749.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 16	Toplander	749.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 16	Crane Oiler	749.1	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-16					
TCC-Central - 17	Bottomlander	486.3	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Crane Oiler	74.1	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Hyd Crane Operator	581.5	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Iron Worker	5818.4	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Iron Worker Foreman	727.3	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Lead Miner	103.6	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Miner	2283.8	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Shaft Crane Operator	560.3	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Shifter	830.9	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Toplander	1228.2	24		
TOTAL TCC-Central-17					
TCC-Central - 18	Shifter	208.7	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 18	Lead Miner	208.7	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 18	Miner	1669.6	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 18	Hyd Crane Operator	208.7	24	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-18					
TCC-Central - 19	Crane Oiler	118.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Electrician	44.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Iron Worker	592.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Iron Worker Foreman	74.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Lead Miner	44.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Miner	503.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Mechanic Welder	44.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Shaft Crane Operator	118.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Shifter	118.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Toplander	118.5	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-19					
TCC-Central - 20	Bottomlander	568.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 20	Crane Oiler	568.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 20	Iron Worker	4544.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 20	Iron Worker Foreman	568.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 20	Shaft Crane Operator	568.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 20	Toplander	568.1	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-20					
TCC-Central - 21	Bottomlander	868.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Carpenter Foreman		10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Concrete Pump Operator	460.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Crane Oiler	1379.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Electrician	455.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Lead Miner	1254.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Master Mechanic	125.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Mechanic Welder	1169.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Miner	6750.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Shaft Crane Operator	1379.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Shifter	1317.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Toplander	1379.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Truck Driver	460.3	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-21					
TCC-Central - 22	Bulgang Foreman	133.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 22	Bulgang Laborer	800.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 22	Mechanic / Welder	133.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 22	Master Mechanic	400.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 22	Shaft Crane Operator	133.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 22	Crane Oiler	133.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 22	Electrician	133.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 22	Hyd Crane Operator	133.3	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-22					
TCC-Central - 23	Bottomlander	958.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Bulgang Foreman	1895.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Bulgang Laborer	3790.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Carpenter Apprentice	22.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Carpenter Foreman	22.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Carpenter Journeyman	45.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Conveyor Belt Man	833.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Crane Oiler	958.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Electrician	3041.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Electrical Foreman	11.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Electrician Journeyman	45.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Flat Truck Driver	1895.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Hyd Crane Operator	4540.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Iron Worker Journeyman Rebar/Struct	45.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Laborer G2 General	45.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Lead Miner	2125.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Operator G3a Cranes 45 t and under	22.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Segment Carrier Operator	2000.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Mechanic / Welder	4936.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Miner	14250.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Shaft Crane Operator	958.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Shifter	21250.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	ST2G Mucker Operator	333.3	10	Sacramento to/from Twin Cities Complex	17

TCC-Central - 23	TBM Operator	2333.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Teamster G3 Boom Truck	11.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Toplander	958.3	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-23					
TCC-Central - 24	Bottomlander	55424.6	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Bulgang Foreman	44156.7	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Bulgang Laborer	151813.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Conveyor Belt Man	35720.0	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Crane Oiler	55424.6	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Dozer Operator	30683.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Electrician	66725.8	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Fanline Carrier Operator	31018.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Flat Truck Driver	12406.7	20		
TCC-Central - 24	Hyd Crane Operator	24813.3	20		
TCC-Central - 24	Lead Miner	35720.0	20		
TCC-Central - 24	Loader Operator	30683.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Man Transport Truck Operator	31750.0	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Master Mechanic	15502.9	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Mechanic / Welder	94635.4	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Miner	269605.8	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Operating Engineer	30683.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Operator G2 Plant Operator	30683.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Segment Carrier Operator	242140.0	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Shaft Crane Operator	55424.6	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Shifter	35720.0	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	TBM Operator	71440.0	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Toplander	55424.6	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Utility Truck Operator	31750.0	20	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-24					
TCC-Central - 25	Bottomlander	958.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Conveyor Belt Man	833.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Crane Oiler	958.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Electrician	3458.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Hyd Crane Operator	750.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Lead Miner	2125.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Mechanic / Welder	3041.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Miner	14250.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Segment Carrier Operator	2000.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Shaft Crane Operator	958.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Shifter	2125.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	ST2G Mucker Operator	333.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	TBM Operator	2333.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Toplander	958.3	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-25					
TCC-Central - 26	Bottomlander	37776.2	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Bulgang Foreman	32301.1	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Bulgang Laborer	107951.2	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Conveyor Belt Man	21590.4	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Crane Oiler	37776.2	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Dozer Operator	20852.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Fanline Carrier Operator	21183.1	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Flat Truck Driver	10626.2	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Hyd Crane Operator	21253.2	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Lead Miner	21590.4	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Loader Operator	20852.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Master Mechanic	10627.8	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Mechanic / Welder	64100.5	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Miner	167157.5	20		
TCC-Central - 26	Operating Engineer	20852.3	20		
TCC-Central - 26	Operator G2 Plant Operator	20852.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Segment Carrier Operator	162494.9	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Shaft Crane Operator	37776.2	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Shifter	21590.4	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	TBM Operator	43180.9	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Toplander	37776.2	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Utility Truck Operator	21674.5	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Man Transport Truck Operator	21674.5	20	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-26					
TCC-Central - 27	Bottomlander	1291.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Bulgang Foreman	83.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Bulgang Laborer	500.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Crane Oiler	679.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Electrician	1970.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Heavy Duty Mechanic Welder	83.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Forklift Operator	695.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Hyd Crane Operator	679.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Lead Miner	1291.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Master Mechanic	250.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Mechanic / Welder	1970.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Miner	6255.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Shaft Crane Operator	1374.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Shifter	1291.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Toplander	1291.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Utility Truck Operator	544.5	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-27					
TCC-Central - 28	Bottomlander	1337.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Bulgang Foreman	166.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Bulgang Laborer	667.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Crane Oiler	679.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Electrician	2016.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Flat Truck Driver	83.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Forklift Operator	741.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Heavy Duty Mechanic Welder	83.3	10	Sacramento to/from Twin Cities Complex	17

TCC-Central - 28	Hyd Crane Operator	846.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Lead Miner	1337.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Master Mechanic	250.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Mechanic / Welder	2100.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Miner	6583.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Shaft Crane Operator	1420.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Shifter	1337.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Toplander	1337.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Utility Truck Operator	700.0	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-28					
TCC-Central - 29	Bottomlander	216.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Carpenter Apprentice	239.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Carpenter Foreman	33.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Carpenter Journeyman	56.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Crane Oiler	216.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Electrical Foreman	11.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Electrician Journeyman	45.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Excavator Operator	216.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Iron Worker Journeyman Rebar/Struct	45.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Laborer G2 Concrete Laborer	1050.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Laborer G2 General	315.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Laborer G3 Dumpman	300.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Laborer G3 Flagman	1060.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Loader Operator	216.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operating Engineer Foreman	1035.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G2 Excavator 3.5 to 7.0 cy	2450.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G2 Finish Blade	700.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G3 Loader >4cy	800.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G3a Cranes 45 t and under	22.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G4 Dozer & Push Cat	3710.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G4 Scraper	2150.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G5 Compactor w-blade	500.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G6 Tractor	810.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Shaft Crane Operator	216.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Teamster G2 Hwy ED 6-8cy, Water<7mgal	9525.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Teamster G3 Boom Truck	11.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Teamster G4 ED 25-65 Cy	700.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Toplander	216.9	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-29					

Marine Inventory for Twin Cities Complex - Central Tunnel Shaft
Options 9A, 9B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Twin Cities Complex - Central Tunnel Shaft
Options 9A, 9B

Code	# day	Locomotive Type	From Depot Site	Delivery Depot	Rail Cars	Rail Cars/Day	Main Railroad	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
TCC-Central - 23	105	Pre Cast Segment	Sacramento	Twin Cities Complex Sidetrack	382	3.64	UPRR						
TCC-Central - 24	2380	Pre Cast Segment	Sacramento	Twin Cities Complex Sidetrack	14146	5.94	UPRR						
TCC-Central - 25	65	Pre Cast Segment	Sacramento	Twin Cities Complex Sidetrack	96	1.48	UPRR						
TCC-Central - 26	1907	Pre Cast Segment	Sacramento	Twin Cities Complex Sidetrack	9319	4.89	UPRR						

Rail Activity for RTM to Southern Complex presented in Southern Complex workbooks

**Helicopter Inventory for Twin Cities Complex - Central Tunnel Shaft
Options 9A, 9B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Twin Cities Complex - Central Tunnel Shaft
Options 9A, 9B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy) (not Concrete)	Fill (cy/day) (not Concrete)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
TCC-Central - 1	507	611	0.8								
TCC-Central - 2		29									
TCC-Central - 5		44		511417.6	11623	55878	1927				
TCC-Central - 6		289		2110546.8	7303						
TCC-Central - 7		149				737562	4950				
TCC-Central - 8		65		66.6	1						
TCC-Central - 9		18		13260	737						
TCC-Central - 10		81									
TCC-Central - 11		15		662.6	44						
TCC-Central - 12		93		95659	1029						
TCC-Central - 13		65		82398.5	1268						
TCC-Central - 16		65									
TCC-Central - 17		45									
TCC-Central - 19		14									
TCC-Central - 21		93									
TCC-Central - 24		2380									
TCC-Central - 25		65									
TCC-Central - 26		1907									
TCC-Central - 26		1907									
TCC-Central - 29	395	135	2.9								

**Demolition Assumptions for Twin Cities Complex - Central Tunnel Shaft
Options 9A, 9B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for New Hope Central Access Road
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Road Base on Access Road	NH_Central Access-1	2/22/2027	2/25/2027	4	4	10
12 Month Maintenance: First Overlay Walnut Grove Blvd from Blossom to Lauffer	NH_Central Access-2	4/10/2028	4/13/2028	4	4	10
12 Month Maintenance: Second Overlay Walnut Grove Blvd from Blossom to Lauffer	NH_Central Access-3	4/10/2029	4/13/2029	4	4	10
Acres - Overlay						5.23
Acres - New Gravel Road						1.1

Construction Schedule for New Hope - Central Tunnel Shaft						
Options 9A, 9B						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Clear and Grub	NH-Central - 1	4/6/2028	4/26/2028	15	5	10
Ground Improvement	NH-Central - 2	4/27/2028	6/14/2028	35	5	10
Raise Shaft Pad	NH-Central - 3	6/15/2028	10/18/2028	90	5	10
Excavate, Set Strips, & Place Guide Wall	NH-Central - 4	10/19/2028	11/3/2028	12	5	10
Place Guide Walls Concrete	NH-Central - 5	11/7/2028	11/7/2028	1	1	10
Excavate Slurry Wall & Place Concrete & Rebar	NH-Central - 6	11/8/2028	12/15/2028	38	7	24
Slurry Wall including Strip Forms and Place Rebar & Top Beam	NH-Central - 7	12/18/2028	1/26/2029	40	7	24
Excavate Shaft	NH-Central - 8	1/30/2029	3/13/2029	43	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	NH-Central - 9	3/14/2029	3/27/2029	13	7	24
Dewater Shaft	NH-Central - 10	3/28/2029	4/3/2029	7	7	24
Place TBM Cradle Rebar and Cradle Pour	NH-Central - 11	4/4/2029	4/11/2029	6	5	10
Breakout Slurry Wall for TBM	NH-Central - 12	4/12/2029	5/8/2029	19	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	NH-Central - 13	4/12/2029	6/28/2029	56	5	10
Place Shaft Cover	NH-Central - 14	6/28/2029	8/7/2029	29	5	10
Total Site Acres	11.1					

Offroad Equipment (Fossil Fuel) Inventory for New Hope - Central Tunnel Shaft
Options 9A, 9B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
NH-Central - 1	CAT D8 Dozer	Crawler Tractor	14.24	15	1	Diesel Tier 4 or Hybrid Diesel	179	0.43		
NH-Central - 1	CAT Grader 16H - 16' Blade	Grader	14.24	15	1	Diesel	285	0.41		
NH-Central - 1	623G Scraper Elevate 21 CY	Scaper	28.48	15	2	Diesel	359	0.48		
NH-Central - 2	Air Compressor 375 CFM	Air Compressor	594.22	136	17	Diesel Tier 4	8	0.48		
NH-Central - 2	Grove RT Crane 30T	Crane	594.22	136	17	Diesel	8	0.29		
NH-Central - 2	DMM Deep Soil Mixer	Bore Drill Rig	594.22	136	17	Diesel	8	0.5		
NH-Central - 2	DMM Grout Mix Plant	Other Industrial Equipmen	594.22	136	17	Diesel	8	0.34		
NH-Central - 2	Case 590 SupN Loader	Rubber Tired Loaders	594.22	136	17	Diesel	8	0.36		
NH-Central - 3	CAT CB-634D Vibratory 84"	Rollers	1078.1	90	12	Diesel	145	0.38		
NH-Central - 3	CAT Grader 16H	Graders	1078.1	90	12	Diesel	285	0.41		
NH-Central - 3	CAT D8 Dozer	Crawler Tractor	1078.1	90	12	Diesel	328	0.43		
NH-Central - 4	CAT Hyd Excavator 1CY	Excavator	6.5	12	1	Diesel	138	0.38		
NH-Central - 4	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	6.5	12	1	Diesel or Hybrid	130	0.36		
NH-Central - 6	1600 CFM Compressor Diesel	Air Compressor	284.5	38	7	Diesel Tier 4	540	0.48		
NH-Central - 6	Hydraulic 55 Ton Crane	Crane	568.9	38	15	Diesel	350	0.29		
NH-Central - 6	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	284.5	38	7	Diesel or Hybrid	130	0.36		
NH-Central - 6	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	284.5	38	7	Diesel	8	0.56		
NH-Central - 6	Manitowoc 777 200 Ton Crane	Crane	568.9	38	15	Diesel	760	0.29		
NH-Central - 7	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	255.7	40	6	Diesel or Hybrid	130	0.36		
NH-Central - 7	250 CFM Compressor Diesel	Air Compressor	4.3	40	0.1	Diesel Tier 3	75	0.48		
NH-Central - 7	CAT Hyd Excavator 1CY	Excavator	255.7	40	6	Diesel	138	0.38		
NH-Central - 7	Hydraulic Excavator to 3.5 tons = Kobelco SK485LC' 2.75cy' 345 hp Excavator	Excavator	255.7	40	6.4	Diesel	345	0.38		
NH-Central - 8	Manitowoc 777 200 Ton Crane	Crane	272.3	43	6	Diesel	760	0.29		
NH-Central - 9	Manitowoc 777 200 Ton Crane	Crane	120.5	13	9	Diesel	760	0.29		
NH-Central - 9	Hydraulic 40 Ton Crane	Crane	39.1	13	3	Diesel	300	0.29		
NH-Central - 9	Hydraulic 25 Ton Crane	Crane	83	13	6	Diesel	100	0.29		
NH-Central - 10	Hydraulic 15 Ton Crane	Crane	108.6	7	16	Diesel	100	0.29		
NH-Central - 11	Manitowoc 777 200 Ton Crane	Crane	38.2	6	6	Diesel	760	0.29		
NH-Central - 11	250 CFM Compressor Diesel	Air Compressor	8.9	6	1	Diesel Tier 3	75	0.48		
								0.74		
NH-Central - 12	250 CFM Compressor Diesel	Air Compressor	128.8	19	7	Diesel Tier 3	75	0.48		
NH-Central - 12	Manitowoc 777 200 Ton Crane	Crane	128.8	19	7	Diesel	760			
NH-Central - 13	Hydraulic 9 Ton Crane	Crane	287.5	56	5	Diesel	85	0.29		
NH-Central - 13	250 CFM Compressor Diesel	Air Compressor	564.2	56	10	Diesel Tier 3	75	0.48		
NH-Central - 13	Manitowoc 777 200 Ton Crane	Crane	54.3	56	1	Diesel	760	0.29		
NH-Central - 14	Hydraulic 9 Ton Crane	Crane	43.4	29	1	Diesel	85	0.29		
NH-Central - 14	Hydraulic 40 Ton Crane	Crane	43.4	29	1	Diesel	300	0.29		
NH-Central - 14	CAT Forklift 5,500 LB	Aerial Lift	43.4	29	1	Diesel	63	0.31		
NH-Central - 14	250 CFM Compressor Diesel	Air Compressor	195.8	29	7	Diesel Tier 3	75	0.48		
NH-Central - 14	Manitowoc 777 200 Ton Crane Manitowoc	Crane	56.5	29	2	Diesel	760	0.29		
NH-Central - 14	999-275 Ton Crane	Crane	139.3	29	4.8	Diesel	900	0.29		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

**Offroad Equipment (Electric) Inventory for New Hope - Central Tunnel Shaft
Options 9A, 9B**

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
NH-Central - 13	Axial Fan 114,000 CFM Electric	65.1	56	50	58
NH-Central - 13	Welder 400 AMP	222.4	56	15	60
NH-Central - 2	90 kW Generator	594	35		
NH-Central - 2	Water Pump 4"	594	35		
NH-Central - 6	Slurry Wall Techniwell	284.5	38		
NH-Central - 10	Dewater Pump 6"	434.3	7		
NH-Central - 10	150 kW Generator	108.6	7		
NH-Central -11	Trailer Conc Pump 100 cy/hr	222.4	222.4		
NH-Central - 13	Trailer Conc Pump 100 cy/hr	126.3	29		
NH-Central -14	Trailer Conc Pump 100 cy/hr	126.3	29		

Vehicle Inventory for New Hope - Central Tunnel Shaft
Options 9A, 9B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
NH Central - 1	Truck Flatbed 4 T Highway	Materials from Sacramento	15	50.0	0.6	79	5	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH Central - 1	Truck, Flatbed, 10T, Hwy	Grader and Scraper to and from Sacramento	2	2.5	0.6	4	2.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH Central - 1	Truck, Flatbed, 10T, Hwy	Crawler Tractor from Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH Central - 2	Pickup 1/2T 2 WD	Materials from Sacramento	35	594.2	0.6	938	27	New Hope Shaft to/from Sacramento	19	38	Hybrid Gasoline	
NH Central - 2	Truck Flatbed 4 T Highway	Materials from Sacramento	35	594.2	0.6	938	27	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH Central - 2	Mechanic Truck	Materials from Sacramento	35	594.2	0.6	938	27	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH Central - 2	Concrete Transit Mix Truck* 12cy	Concrete for Ground Improvement from Sacramento	35	79.5	0.5	149	4	New Hope Shaft to/from Sacramento	16	32	Diesel	
NH Central - 2	Truck, Flatbed, 10T, Hwy	Crane, Trencher, & Other Equipment to and from Sacramento	2	3.8	0.6	6	3.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH Central - 3	Highway Dump Truck 18 CY	Materials from Sacramento	90	1078.1	0.6	1702	19	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH Central - 3	Truck* End Dump* 16-30cy* Hwy	Soil Material in Covered Trucks from Twin Cities Complex	90	1326.0	0.5	2652	29	New Hope Shaft to/from Twin Cities Complex	15	30	Diesel	
NH Central - 3	Truck, Flatbed, 10T, Hwy	Grader and Roller to and from Sacramento	2	2.5	0.6	4	2.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH Central - 3	Truck, Flatbed, 10T, Hwy	Crawler Tractor to Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH Central - 4	Truck, Flatbed, 10T, Hwy	Excavator to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH Central - 4	Truck, Flatbed, 10T, Hwy	Loader from Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH Central - 5	Truck Flatbed 4 T Highway	Rebar from Sacramento	1	0.6	0.6	1	1	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH Central - 5	Concrete Transit Mix Truck* 12cy	Concrete from Lambert CBP	35	12.5	0.5	25	1	New Hope Shaft to/from Lambert CBP	15	30	Diesel	
NH Central - 6	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	38	134.3	0.6	212	6	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH Central - 6	Truck Flatbed 4 T Highway	Rebar from Sacramento	38	18.4	0.6	29	1	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH Central - 6	Concrete Transit Mix Truck* 12cy	Concrete from Lambert CBP	38	329.0	0.5	658	17	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH Central - 6	Truck, Flatbed, 10T, Hwy	Crane and Other Equipment to and from Sacramento	2	2.5	0.6	4	2.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH Central - 6	Truck, Flatbed, 10T, Hwy	Crane from Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH Central - 7	Truck Flatbed 4 T Highway	Rebar from Sacramento	40	0.6	0.6	1	0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH Central - 7	Concrete Transit Mix Truck* 12cy	Concrete from Lambert CBP	40	6.0	0.5	12	0	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH Central - 7	Truck, Flatbed, 10T, Hwy	Loader to Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH Central - 9	Truck Flatbed 4 T Highway	Rebar from Sacramento	13	5.1	0.6	8	1	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH Central - 9	Concrete Transit Mix Truck* 12cy	Concrete from Lambert CBP	13	262.5	0.5	525	40	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH Central - 9	Truck, Flatbed, 10T, Hwy	Cranes to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH Central - 10	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH Central - 11	Truck Flatbed 4 T Highway	Rebar from Sacramento	6	0.6	0.6	1	0.2	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH Central - 11	Concrete Transit Mix Truck* 12cy	Concrete from Lambert CBP	6	19.0	0.5	38	6	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH Central - 12	Truck Flatbed 4 T Highway	Rebar from Sacramento	19	1.3	0.6	2	0.1	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH Central - 12	Concrete Transit Mix Truck* 12cy	Concrete from Lambert CBP	19	122.0	0.5	244	13	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH Central - 13	Concrete Transit Mix Truck* 12cy	Concrete from Lambert CBP	56	76.0	0.5	152	3	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH Central - 13	Truck, Flatbed, 10T, Hwy	Crane to Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH Central - 13	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH Central - 14	Highway Flatbed 10 Ton	Materials from Sacramento	29	30.3	0.6	48	2	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH Central - 14	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site												
NH Central - 4	CAT 730 Rear Dump	Dumper	12	20.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		101	Diesel or Hybrid	
NH Central - 6	CAT 730 Rear Dumbo	Dumper	38	324.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1622	Diesel or Hybrid	
NH Central - 6	Articulated Rear Dumbo 22 CY/CAT 730	Dumper	38	284.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1423	Diesel or Hybrid	
NH Central - 6	Concrete Pump Truck	Off-Highway Truck	38	568.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2845	Diesel	

Employees Required to New Hope - Central Tunnel Shaft
Options 9A, 9B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
NH-Central - 1	General Foreman	7.12	10		Sacramento to/from New Hope Shaft	19
NH-Central - 1	Dozer Operator	14.24	10		Sacramento to/from New Hope Shaft	19
NH-Central - 1	Grader Operator	14.24	10		Sacramento to/from New Hope Shaft	19
NH-Central - 1	Operator G4 Grade Check	7.12	10		Sacramento to/from New Hope Shaft	19
NH-Central - 1	Scraper Operator	28.48	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-1						
NH-Central - 2	Laborer G2 General	1782.66	10		Sacramento to/from New Hope Shaft	19
NH-Central - 2	Operator G3a Crane	594.22	10		Sacramento to/from New Hope Shaft	19
NH-Central - 2	Operator G3 BH Loader	594.22	10		Sacramento to/from New Hope Shaft	19
NH-Central - 2	Operating Engineer	594.22	10		Sacramento to/from New Hope Shaft	19
NH-Central - 2	Operator G4 Grade Check	594.22	10		Sacramento to/from New Hope Shaft	19
NH-Central - 2	Operator G4 Heavy Duty Mechanic	594.22	10		Sacramento to/from New Hope Shaft	19
NH-Central - 2	Operator G2 Plant Operator	1188.44	10		Sacramento to/from New Hope Shaft	19
NH-Central - 2	Teamster G1 Hwy	594.22	10		Sacramento to/from New Hope Shaft	19
NH-Central - 2	Teamster G2 Hwy	594.22	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-2						
NH-Central - 3	Grade Setter / Checker	1078.1	10		Sacramento to/from New Hope Shaft	19
NH-Central - 3	Water Truck Highway	1078.1	10		Sacramento to/from New Hope Shaft	19
NH-Central - 3	Compactor Operator	1078.1	10		Sacramento to/from New Hope Shaft	19
NH-Central - 3	Dozer Operator	1078.1	10		Sacramento to/from New Hope Shaft	19
NH-Central - 3	Grader Operator	1078.1	10		Sacramento to/from New Hope Shaft	19
NH-Central - 3	Truck Driver	1078.1	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-3						
NH-Central - 4	Shifter	6.5	10		Sacramento to/from New Hope Shaft	19
NH-Central - 4	Lead Miner	6.5	10		Sacramento to/from New Hope Shaft	19
NH-Central - 4	Miner	6.5	10		Sacramento to/from New Hope Shaft	19
NH-Central - 4	Loader Operator	6.5	10		Sacramento to/from New Hope Shaft	19
NH-Central - 4	Excavator Operator	6.5	10		Sacramento to/from New Hope Shaft	19
NH-Central - 4	Truck Driver	19.5	10		Sacramento to/from New Hope Shaft	19
NH-Central - 4	Carpenter	463.1	10		Sacramento to/from New Hope Shaft	19
NH-Central - 4	Carpenter Foreman	115.8	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-4						
NH-Central - 5	General Laborer	11.8	10		Sacramento to/from New Hope Shaft	19
NH-Central - 5	Carpenter	23.7	10		Sacramento to/from New Hope Shaft	19
NH-Central - 5	Carpenter Foreman	5.9	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-5						
NH-Central - 6	Crane Oiler	568.9	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	General Foreman	568.9	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	General Laborer	3129	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	Hyd Crane Operator	568.9	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	Iron Worker	2844.6	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	Iron Worker Foreman	568.9	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	Lead Miner	284.5	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	Loader Operator	284.5	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	Mechanic Welder	568.9	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	Miner	2275.7	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	Shaft Crane Operator	568.9	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	Shifter	853.4	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	Truck Driver	324.3	24		Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-6						
NH-Central - 7	Carpenter	40	24		Sacramento to/from New Hope Shaft	19
NH-Central - 7	Carpenter Foreman	10	24		Sacramento to/from New Hope Shaft	19
NH-Central - 7	Excavator Operator	255.7	24		Sacramento to/from New Hope Shaft	19
NH-Central - 7	General Foreman	255.7	24		Sacramento to/from New Hope Shaft	19
NH-Central - 7	General Laborer	767.1	24		Sacramento to/from New Hope Shaft	19
NH-Central - 7	Iron Worker	47.8	24		Sacramento to/from New Hope Shaft	19
NH-Central - 7	Iron Worker Foreman	11.9	24		Sacramento to/from New Hope Shaft	19
NH-Central - 7	Loader Operator	255.7	24		Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-7						
NH-Central - 8	Shaft Crane Operator	272.3	24		Sacramento to/from New Hope Shaft	19
NH-Central - 8	Toplander	272.3	24		Sacramento to/from New Hope Shaft	19
NH-Central - 8	Crane Oiler	272.3	24		Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-8						
NH-Central - 9	Bottomlander	120.5	24		Sacramento to/from New Hope Shaft	19
NH-Central - 9	Hyd Crane Operator	122.1	24		Sacramento to/from New Hope Shaft	19

NH-Central - 9	Iron Worker	1276.8	24	Sacramento to/from New Hope Shaft	19
NH-Central - 9	Iron Worker Foreman	159.6	24	Sacramento to/from New Hope Shaft	19
NH-Central - 9	Lead Miner	20.8	24	Sacramento to/from New Hope Shaft	19
NH-Central - 9	Miner	485.3	24	Sacramento to/from New Hope Shaft	19
NH-Central - 9	Shaft Crane Operator	120.5	24	Sacramento to/from New Hope Shaft	19
NH-Central - 9	Shifter	180.4	24	Sacramento to/from New Hope Shaft	19
NH-Central - 9	Toplander	276.9	24	Sacramento to/from New Hope Shaft	19

TOTAL NH-Central-9

NH-Central - 10	Shifter	108.6	24	Sacramento to/from New Hope Shaft	19
NH-Central - 10	Lead Miner	108.6	24	Sacramento to/from New Hope Shaft	19
NH-Central - 10	Miner	868.6	24	Sacramento to/from New Hope Shaft	19
NH-Central - 10	Hyd Crane Operator	108.6	24	Sacramento to/from New Hope Shaft	19

TOTAL NH-Central-10

NH-Central - 11	Crane Oiler	38.2	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Electrician	8.9	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Iron Worker	234.5	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Iron Worker Foreman	29.3	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Lead Miner	8.9	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Mechanic Welder	8.9	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Miner	129.9	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Shaft Crane Operator	38.2	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Shifter	38.2	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Toplander	38.2	10	Sacramento to/from New Hope Shaft	19

TOTAL NH-Central-11

NH-Central - 12	Bottomlander	128.8	10	Sacramento to/from New Hope Shaft	19
NH-Central - 12	Crane Oiler	128.8	10	Sacramento to/from New Hope Shaft	19
NH-Central - 12	Iron Worker	1030.7	10	Sacramento to/from New Hope Shaft	19
NH-Central - 12	Iron Worker Foreman	128.8	10	Sacramento to/from New Hope Shaft	19
NH-Central - 12	Shaft Crane Operator	128.8	10	Sacramento to/from New Hope Shaft	19
NH-Central - 12	Toplander	128.8	10	Sacramento to/from New Hope Shaft	19

TOTAL NH-Central-12

NH-Central - 13	Bottomlander	54	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Crane Oiler	54	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Electrician	287.6	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Hyd Crane Operator	287.6	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Lead Miner	564.2	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Mechanic / Welder	786.6	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Miner	3515.7	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Shaft Crane Operator	54	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Shifter	564.2	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Toplander	54	10	Sacramento to/from New Hope Shaft	19

TOTAL NH-Central-13

NH-Central - 14	Bottomlander	56.45714286	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Bullgang Foreman	43.42857143	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Bullgang Laborer	86.85714286	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Concrete Pump Operator	69.8	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Crane Oiler	139.3	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Flat Truck Driver	43.4	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Hyd Crane Operator	86.9	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Lead Miner	195.8	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Mechanic / Welder	169.4	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Miner	1566.3	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Shaft Crane Operator	195.8	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Shifter	195.8	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Toplander	195.8	10	Sacramento to/from New Hope Shaft	19

TOTAL NH-Central-14

NH-Central - 15	Conveyor Belt Man	1000	#REF!	Sacramento to/from New Hope Shaft	19
NH-Central - 15	Electrician	1000	#REF!	Sacramento to/from New Hope Shaft	19
NH-Central - 15	Lead Miner	1000	#REF!	Sacramento to/from New Hope Shaft	19
NH-Central - 15	Mechanic / Welder	1000	#REF!	Sacramento to/from New Hope Shaft	19
NH-Central - 15	Miner	6000	#REF!	Sacramento to/from New Hope Shaft	19
NH-Central - 15	Shifter	1000	#REF!	Sacramento to/from New Hope Shaft	19
NH-Central - 15	TBM Operator	2000	#REF!	Sacramento to/from New Hope Shaft	19

TOTAL NH-Central-15

Marine Inventory for New Hope - Central Tunnel Shaft
Options 9A, 9B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for New Hope - Central Tunnel Shaft
Options 9A, 9B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for New Hope - Central Tunnel Shaft
Options 9A, 9B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for New Hope - Central Tunnel Shaft
Options 9A, 9B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
NH-Central - 1	11.1	15	1	3587	239						
NH-Central - 3		90				47459	527				
NH-Central - 4		12		425.6	35						
NH-Central - 5		1									
NH-Central - 6		38		6249.4	164						
NH-Central - 7		40									
NH-Central - 8		43		29964.5	697						

**Demolition Assumptions for New Hope - Central Tunnel Shaft
Options 9A, 9B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Staten Island Central Access Road
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Road Base on Access Road	SI_Central Access-1	2/19/2027	2/19/2027	1	1	10
12 Month Maintenance: First Overlay Access Road	SI_Central Access-2	4/14/2028	4/19/2028	4	4	10
12 Month Maintenance: Second Overlay Access Road	SI_Central Access-3	4/14/2029	4/19/2029	4	4	10
Initial Asphalt Overlay: Walnut Grove Blvd from Blossom Road to Staten Island Road	SI_Central Access-4	2/22/2027	3/1/2027	7	5	10
Intermediate Asphalt Overlay: Walnut Grove Blvd from Blossom Road to Staten Island Road	SI_Central Access-5	5/9/2030	5/16/2030	6	5	10
Final Asphalt Overlay: Walnut Grove Blvd from Blossom Road to Staten Island Road	SI_Central Access-6	6/12/2037	6/22/2037	9	5	10

Acres - New Road1.2

Construction Schedule for Staten Island - Central Tunnel Shaft						
Options 9A, 9B						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Clear and Grub	SI-Central - 1	10/19/2028	10/20/2028	2	2	10
Ground Improvement	SI-Central - 2	11/13/2028	12/29/2028	34	5	10
Raise Shaft Pad	SI-Central - 3	1/1/2029	7/27/2029	148	5	10
Excavate, Set Strips, & Place Guide Wall	SI-Central - 4	7/30/2029	8/15/2029	13	5	10
Place Guide Walls Concrete	SI-Central - 5	8/16/2029	8/16/2029	1	1	10
Excavate Slurry Wall & Place Concrete & Rebar	SI-Central - 6	8/17/2029	9/25/2029	40	7	24
Slurry Wall including Strip Forms and Place Rebar & Top Beam	SI-Central - 7	9/26/2029	11/7/2029	43	7	24
Excavate Shaft	SI-Central - 8	11/8/2029	12/17/2029	40	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	SI-Central - 9	12/18/2029	12/31/2029	14	7	24
Dewater Shaft	SI-Central - 10	1/1/2030	1/7/2030	7	7	24
Place TBM Cradle Rebar and Cradle Pour	SI-Central - 11	1/8/2030	1/15/2030	6	5	10
Breakout Slurry Wall for TBM	SI-Central - 12	1/16/2030	2/11/2030	20	5	10
Ring Beam	SI-Central - 13	1/8/2030	1/15/2030	6	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	SI-Central - 14	1/16/2030	4/29/2030	75	5	10
Place Shaft Cover	SI-Central - 15	4/29/2030	5/7/2030	7	5	10
Total Site Acres	12					

**Offroad Equipment (Fossil Fuel) Inventory for Staten Island - Central Tunnel Shaft
Options 9A, 9B**

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
SI-Central - 1	CAT D8 Dozer	Crawler Tractor	26.66	2	13	Diesel Tier 4 or Hybrid Diesel	179	0.43		
SI-Central - 1	CAT Grader 16H - 16' Blade	Grader	26.66	2	13	Diesel	285	0.41		
SI-Central - 1	623G Scraper Elevate 21 CY	Scaper	53.32	2	27	Diesel	359	0.48		
SI-Central - 2	Air Compressor 375 CFM	Air Compressor	336	34	9	Diesel Tier 4	122	0.48		
SI-Central - 2	Grove RT Crane 30T	Crane	336	34	9	Diesel	160	0.29		
SI-Central - 2	DMM Deep Soil Mixer	Bore Drill Rig	336	34	9	Diesel	808	0.5		
SI-Central - 2	DMM Grout Mix Plant	Other Industrial Equipmen	336	34	9	Diesel	500	0.34		
SI-Central - 2	Portable 90 Kw Diesel	Generators	34	34	1	Diesel Tier 4	158	0.74		
SI-Central - 2	Case 590 SupN Loader	Rubber Tired Loaders	336	34	9	Diesel	110	0.36		
SI-Central - 2	Water Pump 4" Electric	Pumps	682.67	34	20	Diesel	10	0.74		
SI-Central - 3	CAT CB-634D Vibratory 84"	Rollers	1754	148	12	Diesel	145	0.38		
SI-Central - 3	CAT Grader 16H	Graders	1754	148	12	Diesel	285	0.41		
SI-Central - 3	CAT D8 Dozer	Crawler Tractor	1754	148	12	Diesel	328	0.43		
SI-Central - 4	CAT Hyd Excavator 1CY	Excavator	6.5	13	1	Diesel	138	0.38		
SI-Central - 4	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	6.5	13	1	Diesel or Hybrid	130	0.36		
SI-Central - 6	1600 CFM Compressor Diesel	Air Compressor	229.1	40	6	Diesel Tier 4	540	0.48		
SI-Central - 6	Hydraulic 55 Ton Crane	Crane	458.17	40	11	Diesel	350	0.29		
SI-Central - 6	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	229.1	40	6	Diesel or Hybrid	130	0.36		
SI-Central - 6	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	229.1	40	6	Diesel	8	0.56		
SI-Central - 6	Slurry Wall Techniwell	Pumps	229.1	40	6	Diesel	500	0.74		
SI-Central - 6	Manitowoc 777 200 Ton Crane	Crane	229.1	40	6	Diesel	760	0.29		
SI-Central - 7	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	255.7	43	6	Diesel or Hybrid	130	0.36		
SI-Central - 7	250 CFM Compressor Diesel	Air Compressor	4.3	43	0.1	Diesel Tier 3	75	0.48		
SI-Central - 7	CAT Hyd Excavator 1CY	Excavator	255.7	43	6	Diesel	138	0.38		
SI-Central - 7	Hydraulic Excavator to 3.5 tons = Kobelco SK485LC 2.75cy 345 hp Excavator	Excavator	255.7	43	5.9	Diesel	345	0.38		
SI-Central - 8	Manitowoc 777 200 Ton Crane	Crane	272.3	40	7	Diesel	760	0.29		
SI-Central - 9	Manitowoc 777 200 Ton Crane	Crane	120.5	14	9	Diesel	760	0.29		
SI-Central - 9	Hydraulic 40 Ton Crane	Crane	83	14	6	Diesel	300	0.29		
SI-Central - 9	Hydraulic 25 Ton Crane	Crane	39.1	14	3	Diesel	100	0.29		
SI-Central - 10	Dewater Pump 6"	Pump	434.3	7	62	Diesel	50	0.74		
SI-Central - 10	150 KW Diesel Generator	Generator	108.6	7	16	Diesel Tier 4	183	0.74		
SI-Central - 10	Hydraulic 15 Ton Crane	Crane	108.6	7	16	Diesel	100	0.29		
SI-Central - 11	Manitowoc 777 200 Ton Crane	Crane	38.2	6	6	Diesel	760	0.29		
SI-Central - 11	250 CFM Compressor Diesel	Air Compressor	8.9	6	1	Diesel Tier 3	75	0.48		
SI-Central - 11	Trailer Conc Pump 100 CY HR	Pump	8.9	6	1	Diesel	200	0.74		
SI-Central - 12	250 CFM Compressor Diesel	Air Compressor	128.8	20	6	Diesel Tier 3	75	0.48		
SI-Central - 12	Manitowoc 777 200 Ton Crane	Crane	128.8	20	6	Diesel	760	0.29		
SI-Central - 13	250 CFM Compressor Diesel	Air Compressor	56.5	6	9	Diesel Tier 3	75	0.48		
SI-Central - 13	Manitowoc 777 200 Ton Crane	Crane	56.5	6	9	Diesel	760	0.29		
SI-Central - 13	Trailer Conc Pump 100 CY HR	Pump	56.5	6	9	Diesel	200	0.74		
SI-Central - 14	Hydraulic 9 Ton Crane	Crane	287.5	75	4	Diesel	85	0.29		
SI-Central - 14	250 CFM Compressor Diesel	Air Compressor	703.5	75	9	Diesel Tier 3	75	0.48		
SI-Central - 14	Trailer Conc Pump 100 CY HR	Pump	292.2	75	4	Diesel	200	0.74		
SI-Central - 14	Manitowoc 777 200 Ton Crane	Crane	54.3	75	1	Diesel	760	0.29		
SI-Central - 14	Manitowoc 999-275 Ton Crane	Crane	139.3	75	2	Diesel	900	0.29		
SI-Central - 15	Hydraulic 9 Ton Crane	Crane	54.3	7	8	Diesel	85	0.29		
SI-Central - 15	Hydraulic 40 Ton Crane	Crane	54.3	7	8	Diesel	300	0.29		
SI-Central - 15	CAT Forklift 5,500 LB	Aerial Lift	54.3	7	8	Diesel	63	0.31		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Staten Island - Central Tunnel Shaft
Options 9A, 9B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
SI-Central - 14	Axial Fan 114,000 CFM	65.1	75	50	43
SI-Central - 14	Electric Welder 400 AMP	222.4	75	15	44

Vehicle Inventory for Staten Island - Central Tunnel Shaft
Options 9A, 9B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/trip	# of Vehicles Trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
SI-Central - 1	Truck Flatbed 4 T Highway	Materials from Sacramento	2	113.2	1.2	97	49	Staten Island Shaft to/from/from Sacramento	35	70	Diesel	
SI-Central - 1	Truck, Flatbed, 10T, Hwy	Grader and Scraper to and from Sacramento	2	4.7	1.2	4	2.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 1	Truck, Flatbed, 10T, Hwy	Crawler Tractor from Sacramento	1	1.2	1.2	1	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 2	Pickup 1/2T 2 WD	Materials from Sacramento	34	682.7	1.2	585	17	Staten Island Shaft to/from Sacramento	35	70	Hybrid Gasoline	
SI-Central - 2	Truck Flatbed 4 T Highway	Materials from Sacramento	34	682.7	1.2	585	17	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 2	Mechanic Truck	Materials from Sacramento	34	682.7	1.2	585	17	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 2	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement from Sacramento	34	199.5	1.2	171	5	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 2	Truck, Flatbed, 10T, Hwy	Crane, Trencher, & Other Equipment to and from Sacramento	2	7.0	1.2	6	3.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 3	Highway Dump Truck 18 CY	Materials from Sacramento	148	1754.0	1.2	1503	10	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 3	Truck/ End Dump/ 16-20cy Hwy	Soil Material in Covered Trucks from Twin Cities Complex	148	3431.3	0.7	5147	35	Staten Island Shaft to/from Sacramento to/from Twin Cities Complex	20	40	Diesel	
SI-Central - 3	Truck, Flatbed, 10T, Hwy	Grader and Roller to and from Sacramento	2	4.7	1.2	4	2.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 3	Truck, Flatbed, 10T, Hwy	Crawler Tractor to Sacramento	1	1.2	1.2	1	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 4	Truck, Flatbed, 10T, Hwy	Excavator to and from Sacramento	2	1.2	1.2	1	0.5	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 4	Truck, Flatbed, 10T, Hwy	Loader from Sacramento	1	1.2	1.2	1	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 4	Truck, Flatbed, 10T, Hwy	Rebar from Sacramento	1	1.2	1.2	1	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 5	Truck, Water, 4 lgal, Hwy	Recycled Water from Lodi	1	227.2	0.6	401	401.0	Staten Island Shaft to/from Lodi	17	34	Diesel	
SI-Central - 5	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road CBP	1	418.7	0.7	628	628	Staten Island Shaft to/from Lambert Road Concrete Batch Plant	20	40	Diesel	
SI-Central - 5	Truck Flatbed 4 T Highway	Rebar from Sacramento	1	1.2	1.2	1	1	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 6	Truck Flatbed 4 T Highway	Rebar from Sacramento	40	30.3	1.2	26	1	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 6	Truck, Flatbed, 10T, Hwy	Crane and Other Equipment to and from Sacramento	2	4.7	1.2	4	2.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 6	Truck, Flatbed, 10T, Hwy	Crane from Sacramento	1	1.2	1.2	1	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 6	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road CBP	40	292.0	0.7	438	11	Staten Island Shaft to/from Lambert Road Concrete Batch Plant	20	40	Diesel	
SI-Central - 6	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	40	247.3	1.2	212	5	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 7	Truck, Flatbed, 10T, Hwy	Rebar from Sacramento	1	1.2	1.2	1	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 7	Truck, Flatbed, 10T, Hwy	Loader to Sacramento	1	1.2	1.2	1	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 7	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road CBP	43	4.0	0.7	6	0	Staten Island Shaft to/from Lambert Road Concrete Batch Plant	20	40	Diesel	
SI-Central - 9	Truck Flatbed 4 T Highway	Rebar from Sacramento	14	9.3	1.2	8	1	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 9	Truck, Flatbed, 10T, Hwy	Cranes to and from Sacramento	2	4.7	1.2	4	2.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 9	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road CBP	14	350.0	0.7	525	38	Staten Island Shaft to/from Lambert Road Concrete Batch Plant	20	40	Diesel	
SI-Central - 10	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	2.3	1.2	2	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 11	Truck Flatbed 4 T Highway	Rebar from Sacramento	6	1.2	1.2	1	0.2	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 11	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road CBP	6	25.3	0.7	38	6	Staten Island Shaft to/from Lambert Road Concrete Batch Plant	20	40	Diesel	
SI-Central - 12	Truck Flatbed 4 T Highway	Rebar from Sacramento	20	2.3	1.2	2	0.1	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 14	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road CBP	75	264.0	0.7	396	5	Staten Island Shaft to/from Lambert Road Concrete Batch Plant	20	40	Diesel	
SI-Central - 14	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	2.3	1.2	2	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 15	Highway Flatbed 10 Ton	Materials from Sacramento	7	37.9	1.2	32	5	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 15	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	2.3	1.2	2	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 15	Truck, Flatbed, 10T, Hwy	Crane to Sacramento	2	1.2	1.2	1	0.5	Staten Island Shaft to/from Sacramento	35	70	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site										Miles On-Site		
SI-Central - 4	CAT 730 Rear Dumbo	Dumper	13	19.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		98	Diesel or Hybrid	
SI-Central - 6	CAT 730 Rear Dumbo	Dumper	40	258.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1295	Diesel or Hybrid	
SI-Central - 6	Articulated Rear Dumbo 22 CY/CAT 730	Dumper	40	239.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1146	Diesel or Hybrid	
SI-Central - 6	Concrete Pumbo Truck	Off-Highway Truck	40	458.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2291	Diesel	

Employees Required to Staten Island - Central Tunnel Shaft
Options 9A, 9B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
SI-Central - 1	General Foreman	13.33	10		Stockton to/from Staten Island Shaft	26
SI-Central - 1	Dozer Operator	26.66	10		Stockton to/from Staten Island Shaft	26
SI-Central - 1	Grader Operator	26.66	10		Stockton to/from Staten Island Shaft	26
SI-Central - 1	Operator G4 Grade Check	13.33	10		Stockton to/from Staten Island Shaft	26
SI-Central - 1	Scraper Operator	53.32	10		Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-1						
SI-Central - 2	Laborer G2 General	2048.01	10		Stockton to/from Staten Island Shaft	26
SI-Central - 2	Operator G3a Crane	682.67	10		Stockton to/from Staten Island Shaft	26
SI-Central - 2	Operator G3 BH Loader	682.67	10		Stockton to/from Staten Island Shaft	26
SI-Central - 2	Operating Engineer	682.67	10		Stockton to/from Staten Island Shaft	26
SI-Central - 2	Operator G4 Grade Check	682.67	10		Stockton to/from Staten Island Shaft	26
SI-Central - 2	Operator G4 Heavy Duty Mechanic	682.67	10		Stockton to/from Staten Island Shaft	26
SI-Central - 2	Operator G2 Plant Operator	1365.34	10		Stockton to/from Staten Island Shaft	26
SI-Central - 2	Teamster G1 Hwy	682.67	10		Stockton to/from Staten Island Shaft	26
SI-Central - 2	Teamster G2 Hwy	682.67	10		Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-2						
SI-Central - 3	Compactor Operator	1754	10		Stockton to/from Staten Island Shaft	26
SI-Central - 3	Dozer Operator	1754	10		Stockton to/from Staten Island Shaft	26
SI-Central - 3	Grade Setter / Checker	1754	10		Stockton to/from Staten Island Shaft	26
SI-Central - 3	Grader Operator	1754	10		Stockton to/from Staten Island Shaft	26
SI-Central - 3	Truck Driver	1754	10		Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-3						
SI-Central - 4	Carpenter	463.1	10		Stockton to/from Staten Island Shaft	26
SI-Central - 4	Carpenter Foreman	115.8	10		Stockton to/from Staten Island Shaft	26
SI-Central - 4	Excavator Operator	6.5	10		Stockton to/from Staten Island Shaft	26
SI-Central - 4	Lead Miner	6.5	10		Stockton to/from Staten Island Shaft	26
SI-Central - 4	Loader Operator	6.5	10		Stockton to/from Staten Island Shaft	26
SI-Central - 4	Miner	6.5	10		Stockton to/from Staten Island Shaft	26
SI-Central - 4	Shifter	6.5	10		Stockton to/from Staten Island Shaft	26
SI-Central - 4	Truck Driver	19.5	10		Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-4						
SI-Central - 5	Carpenter	23.7	10		Stockton to/from Staten Island Shaft	26
SI-Central - 5	Carpenter Foreman	5.9	10		Stockton to/from Staten Island Shaft	26
SI-Central - 5	General Laborer	11.8	10		Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-5						
SI-Central - 6	Crane Oiler	458.2	24		Stockton to/from Staten Island Shaft	26
SI-Central - 6	General Foreman	458.2	24		Stockton to/from Staten Island Shaft	26
SI-Central - 6	General Laborer	2520	24		Stockton to/from Staten Island Shaft	26
SI-Central - 6	Hyd Crane Operator	458.2	24		Stockton to/from Staten Island Shaft	26
SI-Central - 6	Iron Worker	2290.9	24		Stockton to/from Staten Island Shaft	26
SI-Central - 6	Iron Worker Foreman	458.2	24		Stockton to/from Staten Island Shaft	26
SI-Central - 6	Lead Miner	229.1	24		Stockton to/from Staten Island Shaft	26
SI-Central - 6	Loader Operator	229.1	24		Stockton to/from Staten Island Shaft	26
SI-Central - 6	Mechanic Welder	458.2	24		Stockton to/from Staten Island Shaft	26
SI-Central - 6	Miner	1832.7	24		Stockton to/from Staten Island Shaft	26
SI-Central - 6	Shaft Crane Operator	458.2	24		Stockton to/from Staten Island Shaft	26
SI-Central - 6	Shifter	687.3	24		Stockton to/from Staten Island Shaft	26
SI-Central - 6	Truck Driver	261.2	24		Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-6						
SI-Central - 7	Carpenter	29.3	24		Stockton to/from Staten Island Shaft	26
SI-Central - 7	Carpenter Foreman	7.3	24		Stockton to/from Staten Island Shaft	26
SI-Central - 7	Excavator Operator	255.7	24		Stockton to/from Staten Island Shaft	26
SI-Central - 7	General Foreman	255.7	24		Stockton to/from Staten Island Shaft	26
SI-Central - 7	General Laborer	787.6	24		Stockton to/from Staten Island Shaft	26
SI-Central - 7	Iron Worker	23.8	24		Stockton to/from Staten Island Shaft	26
SI-Central - 7	Iron Worker Foreman	5.9	24		Stockton to/from Staten Island Shaft	26
SI-Central - 7	Loader Operator	255.7	24		Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-7						
SI-Central - 8	Shaft Crane Operator	272.3	24		Stockton to/from Staten Island Shaft	26
SI-Central - 8	Toplander	272.3	24		Stockton to/from Staten Island Shaft	26
SI-Central - 8	Crane Oiler	272.3	24		Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-8						
SI-Central - 9	Bottomlander	120.5142857	24		Stockton to/from Staten Island Shaft	26
SI-Central - 9	Iron Worker	1276.8	24		Stockton to/from Staten Island Shaft	26
SI-Central - 9	Iron Worker Foreman	159.6	24		Stockton to/from Staten Island Shaft	26

SI-Central - 9	Lead Miner	20.8	24	Stockton to/from Staten Island Shaft	26
SI-Central - 9	Miner	485.3	24	Stockton to/from Staten Island Shaft	26
SI-Central - 9	Shaft Crane Operator	120.5	24	Stockton to/from Staten Island Shaft	26
SI-Central - 9	Shifter	180.4	24	Stockton to/from Staten Island Shaft	26
SI-Central - 9	Toplander	276.9	24	Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-9					
SI-Central - 10	Hyd Crane Operator	108.6	24	Stockton to/from Staten Island Shaft	26
SI-Central - 10	Lead Miner	108.6	24	Stockton to/from Staten Island Shaft	26
SI-Central - 10	Miner	868.6	24	Stockton to/from Staten Island Shaft	26
SI-Central - 10	Shifter	108.6	24	Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-10					
SI-Central - 11	Crane Oiler	38.2	10	Stockton to/from Staten Island Shaft	26
SI-Central - 11	Electrician	8.9	10	Stockton to/from Staten Island Shaft	26
SI-Central - 11	Iron Worker	234.5	10	Stockton to/from Staten Island Shaft	26
SI-Central - 11	Iron Worker Foreman	29.3	10	Stockton to/from Staten Island Shaft	26
SI-Central - 11	Lead Miner	8.9	10	Stockton to/from Staten Island Shaft	26
SI-Central - 11	Mechanic Welder	8.9	10	Stockton to/from Staten Island Shaft	26
SI-Central - 11	Miner	129.9	10	Stockton to/from Staten Island Shaft	26
SI-Central - 11	Shaft Crane Operator	38.2	10	Stockton to/from Staten Island Shaft	26
SI-Central - 11	Shifter	38.2	10	Stockton to/from Staten Island Shaft	26
SI-Central - 11	Toplander	38.2	10	Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-11					
SI-Central - 12	Bottomlander	128.8	10	Stockton to/from Staten Island Shaft	26
SI-Central - 12	Crane Oiler	128.8	10	Stockton to/from Staten Island Shaft	26
SI-Central - 12	Iron Worker	1030.7	10	Stockton to/from Staten Island Shaft	26
SI-Central - 12	Iron Worker Foreman	128.8	10	Stockton to/from Staten Island Shaft	26
SI-Central - 12	Shaft Crane Operator	128.8	10	Stockton to/from Staten Island Shaft	26
SI-Central - 12	Toplander	128.8	10	Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-12					
SI-Central - 13	Bottomlander	56.5	10	Stockton to/from Staten Island Shaft	26
SI-Central - 13	Lead Miner	56.5	10	Stockton to/from Staten Island Shaft	26
SI-Central - 13	Mechanic / Welder	56.5	10	Stockton to/from Staten Island Shaft	26
SI-Central - 13	Miner	451.7	10	Stockton to/from Staten Island Shaft	26
SI-Central - 13	Shaft Crane Operator	56.5	10	Stockton to/from Staten Island Shaft	26
SI-Central - 13	Shifter	56.5	10	Stockton to/from Staten Island Shaft	26
SI-Central - 13	Toplander	56.5	10	Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-13					
SI-Central - 14	Bottomlander	54	10	Stockton to/from Staten Island Shaft	26
SI-Central - 14	Concrete Pump Operator	69.8	10	Stockton to/from Staten Island Shaft	26
SI-Central - 14	Crane Oiler	194	10	Stockton to/from Staten Island Shaft	26
SI-Central - 14	Electrician	287.6	10	Stockton to/from Staten Island Shaft	26
SI-Central - 14	Hyd Crane Operator	287.5	10	Stockton to/from Staten Island Shaft	26
SI-Central - 14	Lead Miner	703.5	10	Stockton to/from Staten Island Shaft	26
SI-Central - 14	Mechanic / Welder	856.1	10	Stockton to/from Staten Island Shaft	26
SI-Central - 14	Miner	4630.3	10	Stockton to/from Staten Island Shaft	26
SI-Central - 14	Shaft Crane Operator	194	10	Stockton to/from Staten Island Shaft	26
SI-Central - 14	Shifter	703.5	10	Stockton to/from Staten Island Shaft	26
SI-Central - 14	Toplander	194	10	Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-14					
SI-Central - 15	Bullgang Foreman	54.3	10	Stockton to/from Staten Island Shaft	26
SI-Central - 15	Bullgang Laborer	108.6	10	Stockton to/from Staten Island Shaft	26
SI-Central - 15	Mechanic / Welder	54.3	10	Stockton to/from Staten Island Shaft	26
SI-Central - 15	Hyd Crane Operator	108.6	10	Stockton to/from Staten Island Shaft	26
SI-Central - 15	Flat Truck Driver	54.3	10	Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-15					

Marine Inventory for Staten Island - Central Tunnel Shaft
Options 9A, 9B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Staten Island - Central Tunnel Shaft
Options 9A, 9B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Staten Island - Central Tunnel Shaft
Options 9A, 9B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Staten Island - Central Tunnel Shaft
Options 9A, 9B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
SI-Central - 1	12	2	6	6716	3358						
SI-Central - 3		148				77195	522				
SI-Central - 4		13		425.6	33						
SI-Central - 6		40		5719.5	143	5268	132				
SI-Central - 8		40		29964.5	749						

**Demolition Assumptions for Staten Island - Central Tunnel Shaft
Options 9A, 9B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Charter Way Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Excavation	CWPR-1	11/1/2026	11/12/2026	10	5	10
Culvert Pipe	CWPR-2	11/13/2026	11/13/2026	1	1	10
Subdrain System	CWPR-3	11/16/2026	11/16/2026	1	1	10
Road Base	CWPR-4	11/17/2026	11/19/2026	3	3	10
Asphalt Paving	CWPR-5	11/20/2026	11/24/2026	5	5	10
Electrical, Striping, and K-Rail Installation	CWPR-6	11/25/2026	11/25/2026	1	5	10

Acres2.4

Construction Schedule for Rio Vista Park and Ride

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	RVPR -1	11/20/2026	11/30/2026	9	5	10
Embankment	RVPR -2	12/1/2026	12/1/2026	1	1	10
Culvert Pipe	RVPR -3	12/2/2026	12/2/2026	1	1	10
Subdrain System	RVPR -4	12/3/2026	12/3/2026	1	1	10
Road Base	RVPR -5	12/4/2026	12/8/2026	5	5	10
Asphalt Paving	RVPR -6	12/9/2026	12/14/2026	5	5	10
Electrical, Striping, and K-Rail Installation	RVPR -7	12/15/2026	12/15/2026	1	1	10

Acres

3.1

Construction Schedule for Bouldin I Levee - Central
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Construct Levee	Bouldin I Levee-C -1	2/28/2028	6/19/2028	96	5	10

Acres251

Construction Schedule for Bouldin I On-Site - Central Access Road

Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	Bouldin OnSite-C Access -1	2/29/2028	3/10/2028	9	5	10
Embankment	Bouldin OnSite-C Access -2	3/13/2028	3/20/2028	5	5	10
Culvert Pipe	Bouldin OnSite-C Access -3	3/21/2028	3/22/2028	2	2	10
Bridge Over SR 12	Bouldin OnSite-C Access -4	4/16/2027	9/30/2027	120	5	10
Subdrain System	Bouldin OnSite-C Access -5	3/23/2028	4/7/2028	14	5	10
Road Base	Bouldin OnSite-C Access -6	4/10/2028	4/28/2028	14	5	10
Asphalt Paving	Bouldin OnSite-C Access -7	5/1/2028	5/5/2028	5	5	10
KRail and Signs	Bouldin OnSite-C Access -8	5/8/2028	5/8/2028	1	1	10
Intermediate Overlay	Bouldin OnSite-C Access -9	7/17/2030	7/22/2030	5	5	10
Final Overlay	Bouldin OnSite-C Access -10	8/20/2037	8/26/2037	5	5	10

Acres

17.4

Construction Schedule for Bouldin I SR12 - Central Access Road
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	BouldinSR12-C Access -1	1/25/2027	2/18/2027	19	5	10
Embankment	BouldinSR12-C Access -2	2/19/2027	3/15/2027	19	5	10
Culvert Pipe	BouldinSR12-C Access -3	4/16/2027	4/21/2027	5	5	10
SR 12 Bridge Widening	BouldinSR12-C Access -4	4/16/2027	12/23/2027	181	5	10
Subdrain System	BouldinSR12-C Access -5	4/22/2027	6/16/2027	40	5	10
Road Base	BouldinSR12-C Access -6	6/17/2027	9/8/2027	60	5	10
Asphalt Paving	BouldinSR12-C Access -7	11/16/2027	12/23/2027	27	5	10
KRail and Signs	BouldinSR12-C Access -8	12/24/2027	2/28/2028	5	5	10
Intermediate Overlay	BouldinSR12-C Access -9	5/17/2030	7/16/2030	25	5	10
Final Overlay	BouldinSR12-C Access -10	6/22/2037	8/20/2037	43	5	10
Acres		70.8				

Construction Schedule for Bouldin Island - Central Tunnel Shaft						
Options 9A, 9B						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Mobilize	Bouldin I-Central - 1	7/19/2028	9/12/2028	39	5	10
Mangagement, Engineering, & Field Labor	Bouldin I-Central - 2	7/19/2028	10/3/2036	2143	5	10
Clear and Grub	Bouldin I-Central - 3	9/13/2028	10/10/2028	19	5	10
Ground Improvement, Grading, & Compaction at Shaft & Segment Storage Area	Bouldin I-Central - 4	9/13/2028	10/9/2029	279	5	10
Ground Improvement, Grading, & Compaction at RTM Storage Area	Bouldin I-Central - 5	10/10/2029	8/12/2030	220	5	10
Raise Shaft Pad	Bouldin I-Central - 6	3/14/2029	2/26/2030	250	5	10
Excavate, Set Strips, & Concrete for Shaft & Segment Areas	Bouldin I-Central - 7	10/31/2029	12/18/2029	35	5	10
Place Guide Walls Concrete	Bouldin I-Central - 8	2/27/2030	3/22/2030	18	5	10
Excavate Slurry Wall, Place Concrete & Rebar, Slurry Wall, Remove Guide Wall, & add Top Beam	Bouldin I-Central - 9	3/25/2030	7/18/2030	85	5	10
Excavate Shaft	Bouldin I-Central - 10	7/19/2030	10/16/2030	66	5	10
Place Tremie Seal Rebar, Cooling Pipes, & Seal	Bouldin I-Central - 11	10/17/2030	11/13/2030	28	7	24
Dewater Shaft	Bouldin I-Central - 12	11/14/2030	11/20/2030	10	7	24
Place TBM Cradle Rebar and Cradle Pour	Bouldin I-Central - 13	11/21/2030	12/3/2030	10	5	10
Breakout Slurry Wall for TBM	Bouldin I-Central - 14	12/4/2030	12/31/2030	20	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	Bouldin I-Central - 15	1/1/2031	3/25/2031	60	5	10
Erect Gantry Crane	Bouldin I-Central - 16	3/26/2031	4/16/2031	16	5	10
TBM Assembly including Shaft Utilities	Bouldin I-Central - 17	4/17/2031	12/5/2031	167	5	10
Tunneling Operations including Equipment Delivery	Bouldin I-Central - 18	4/17/2031	7/2/2036	1649	6	20
Remove TBM and Tunnel Equipment	Bouldin I-Central - 19	7/21/2036	9/16/2036	42	5	10
Remove Equipment from Site	Bouldin I-Central - 20	9/2/2036	10/3/2036	24	5	10
Final Access to RTM Storage Area	Bouldin I-Central - 21	10/3/2036	10/8/2036	5	3	10
Site Restoration	Bouldin I-Central - 22	10/8/2036	4/2/2037	127	5	10
Total Site Acres	338					

**Offroad Equipment (Fossil Fuel) Inventory for Bouldin Island - Central Tunnel Shaft
Options 9A, 9B**

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
Bouldin I-Central - 1	Hydraulic 9 Ton Crane	Crane	400	39	10	Diesel	85	0.29		
Bouldin I-Central - 1	Hydraulic 40 Ton Crane	Crane	400	39	10	Diesel	300	0.29		
Bouldin I-Central - 1	CAT Forklift 5,500 LB	Aerial Lift	400	39	10	Diesel	63	0.31		
Bouldin I-Central - 3	CAT D8 Dozer	Crawler Tractor	1018	19	54	Diesel Tier 4 or Hybrid Diesel	179	0.43		
Bouldin I-Central - 3	Grader 16H - 16' Blade	Grader	1018	19	54	Diesel	285	0.41		
Bouldin I-Central - 3	623G Scraper Elevate 21 CY	Scaper	2036	19	107	Diesel	359	0.48		
Bouldin I-Central - 4	Air Compressor 375 CFM	Air Compressor	7093.3	279	25	Diesel Tier 4	122	0.48		
Bouldin I-Central - 4	Grove RT Crane 30T	Crane	7093.3	279	25	Diesel	160	0.29		
Bouldin I-Central - 4	DMM Deep Soil Mixer	Bore Drill Rig	3069	279	11	Diesel	522	0.5		
Bouldin I-Central - 4	DMM Grout Mix Plant	Other Industrial Equipmen	7093.3	279	25	Diesel	500	0.34		
Bouldin I-Central - 4	Portable 90 Kw Diesel	Generators	279	279	1	Diesel Tier 4	158	0.74		
Bouldin I-Central - 4	Case 590 SupN Loader	Rubber Tired Loaders	7093.3	279	25	Diesel	110	0.36		
Bouldin I-Central - 4	Water Pump 4" Electric	Pumps	7093.3	279	25	Diesel	10	0.74		
Bouldin I-Central - 5	Air Compressor 375 CFM	Air Compressor	3547	220	16	Diesel Tier 4	122	0.48		
Bouldin I-Central - 5	Case 590 SupN Loader	Rubber Tired Loaders	3547	220	16	Diesel	110	0.36		
Bouldin I-Central - 5	CAT 825H Compactor	Rollers	128.1	220	1	Diesel	145	0.38		
Bouldin I-Central - 5	CAT 980 Loader 7.5 CY	Grader	128.1	220	1	Diesel	285	0.41		
Bouldin I-Central - 5	CAT CB-634D Vibratory 84"	Rollers	128.1	220	1	Diesel	315	0.38		
Bouldin I-Central - 5	CAT D8 Dozer	Crawler Tractor	128.1	220	1	Diesel Tier 4 or Hybrid Diesel	179	0.43		
Bouldin I-Central - 5	CAT Grader 16H	Grader	128.1	220	1	Diesel	285	0.41		
Bouldin I-Central - 5	DMM Deep Soil Mixer	Bore Drill Rig	3547	220	16	Diesel	522	0.5		
Bouldin I-Central - 5	DMM Grout Mix Plant	Other Industrial Equipmen	3547	220	16	Diesel	500	0.34		
Bouldin I-Central - 5	Grove RT Crane 30T	Crane	3547	220	16	Diesel	160	0.29		
Bouldin I-Central - 5	Portable 90 Kw Diesel	Generators	220	220	1	Diesel Tier 4	158	0.74		
Bouldin I-Central - 6	CAT CB-634D Vibratory 84"	Rollers	5897.23	250	24	Diesel	145	0.38		
Bouldin I-Central - 6	CAT Grader 16H	Graders	5897.23	250	24	Diesel	285	0.41		
Bouldin I-Central - 6	CAT D8 Dozer	Crawler Tractor	5897.23	250	24	Diesel	328	0.43		
Bouldin I-Central - 7	Hydraulic 9 Ton Crane	Crane	237.3	35	7	Diesel	85	0.29		
Bouldin I-Central - 8	CAT Hyd Excavator 1CY	Excavator	10	18	1	Diesel	138	0.38		
Bouldin I-Central - 8	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	10	18	1	Diesel or Hybrid	130	0.36		
Bouldin I-Central - 9	1600 CFM Compressor Diesel	Air Compressor	566.6	85	7	Diesel Tier 4	540	0.48		
Bouldin I-Central - 9	250 CFM Compressor Diesel	Air Compressor	31.3	85	0	Diesel Tier 3	75	0.48		
Bouldin I-Central - 9	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	963.1	85	11	Diesel or Hybrid	130	0.36		
Bouldin I-Central - 9	CAT 980 Loader 7.5 CY	Grader	202	85	2	Diesel	285	0.41		
Bouldin I-Central - 9	CAT CB-634D Vibratory 84"	Rollers	202	85	2	Diesel	145	0.38		
Bouldin I-Central - 9	CAT Grader 16H	Graders	202	85	2	Diesel	285	0.41		
Bouldin I-Central - 9	CAT D8 Dozer	Crawler Tractor	202	85	2	Diesel	328	0.43		
Bouldin I-Central - 9	CAT Forklift 5,500 LB	Aerial Lift	16.7	85	0	Diesel	63	0.31		
Bouldin I-Central - 9	CAT Hyd Excavator 1CY	Excavator	413.2	85	5	Diesel	138	0.38		
Bouldin I-Central - 9	Hydraulic 40 Ton Crane	Crane	16.7	85	0	Diesel	300	0.29		
Bouldin I-Central - 9	Hydraulic 55 Ton Crane	Crane	1133.2	85	13	Diesel	350	0.29		
Bouldin I-Central - 9	Hydraulic 9 Ton Crane	Crane	391.7	85	5	Diesel	85	0.29		
Bouldin I-Central - 9	Hydraulic Excavator to 3.5 tons = Kobelco SK485	Excavator	396.5	85	5	Diesel	345	0.38		
Bouldin I-Central - 9	Manitowoc 777 200 Ton Crane	Crane	1133.2	85	13	Diesel	760	0.29		
Bouldin I-Central - 9	Slurry Wall Mixer & Desander & Stop End &	Cement & Mortar Mix	566.6	85	7	Diesel	8	0.56		
Bouldin I-Central - 9	Slurry Wall Techniwell	Pumps	566.6	85	7	Diesel	500	0.74		
Bouldin I-Central - 10	Manitowoc 777 200 Ton Crane	Crane	770.9	66	12	Diesel	760	0.29		
Bouldin I-Central - 11	Manitowoc 777 200 Ton Crane	Crane	243.1	28	9	Diesel	760	0.29		
Bouldin I-Central - 11	Hydraulic 40 Ton Crane	Crane	83.5	28	3	Diesel	300	0.29		
Bouldin I-Central - 11	Hydraulic 25 Ton Crane	Crane	207.3	28	7	Diesel	100	0.29		
Bouldin I-Central - 12	Hydraulic 15 Ton Crane	Crane	104.3	10	10	Diesel	85	0.29		
Bouldin I-Central - 12	Dewater Pump 6"	Pump	417.4	10	42	Diesel	50	0.74		
Bouldin I-Central - 12	150 KW Diesel Generator	Generator	104.3	10	10	Diesel Tier 4	183	0.74		
Bouldin I-Central - 13	Manitowoc 777 200 Ton Crane	Crane	96.3	10	10	Diesel	760	0.29		
Bouldin I-Central - 13	250 CFM Compressor Diesel	Air Compressor	22.2	10	2	Diesel Tier 3	75	0.48		
Bouldin I-Central - 13	Trailer Conc Pump 100 CY HR	Pump	22.2	10	2	Diesel	200	0.74		
Bouldin I-Central - 14	Manitowoc 777 200 Ton Crane	Crane	318.6	20	16	Diesel	760	0.29		
Bouldin I-Central - 14	250 CFM Compressor Diesel	Air Compressor	318.6	20	16	Diesel Tier 3	75	0.48		
Bouldin I-Central - 15	250 CFM Compressor Diesel	Air Compressor	620.8	60	10	Diesel Tier 3	75	0.48		
Bouldin I-Central - 15	Manitowoc 777 200 Ton Crane	Crane	426.1	60	7	Diesel	760	0.29		
Bouldin I-Central - 15	Manitowoc 999-275 Ton Crane	Crane	297.2	60	5.0	Diesel	900	0.29		
Bouldin I-Central - 15	Trailer Conc Pump 100 CY HR	Pump	305.3	60	5	Diesel	200	0.74		
Bouldin I-Central - 16	1600 CFM Compressor Diesel	Air Compressor	133.3	16	8	Diesel Tier 4	540	0.48		
Bouldin I-Central - 16	Heavy Duty Mechanic Welder	Welder	133.3	16	8	Diesel	400	0.45		
Bouldin I-Central - 16	Hydraulic 25 Ton Crane	Crane	133.3	16	8	Diesel	100	0.29		
Bouldin I-Central - 16	Telescope RT Forklift 5500	Forklift	133.3	16	8	Diesel	63	0.2		
Bouldin I-Central - 16	Truck Crane Lattice Boom 90T	Crane	133.3	16	8	Diesel Tier 4	300	0.29		
Bouldin I-Central - 17	250 CFM Compressor Diesel	Air Compressor	1916.7	167	11	Diesel Tier 3	75	0.48		
Bouldin I-Central - 17	Hydraulic 40 Ton Crane	Crane	750	167	4	Diesel	300	0.29		
Bouldin I-Central - 18	250 CFM Compressor Diesel	Air Compressor	20740.8	1649	13	Diesel Tier 3	75	0.48		
Bouldin I-Central - 18	CAT 980 Loader 7.5 CY	Grader	20740.8	1649	13	Diesel	285	0.41		
Bouldin I-Central - 18	CAT Forklift 5,500 LB	Aerial Lift	10608.3	1649	6	Diesel	63	0.31		
Bouldin I-Central - 18	Grout Mixer	Cement & Mortar Mix	1015	1649	1	Diesel	70	0.56		
Bouldin I-Central - 18	Grout Pump	Cement & Mortar Mix	1015	1649	1	Diesel	500	0.56		
Bouldin I-Central - 18	Hydraulic 40 Ton Crane	Crane	10608.3	1649	6	Diesel	300	0.29		
Bouldin I-Central - 18	Hydraulic 9 Ton Crane	Crane	10608.3	1649	6	Diesel	85	0.29		
Bouldin I-Central - 19	1600 CFM Compressor Diesel	Air Compressor	83.3	42	2	Diesel Tier 4	540	0.48		
Bouldin I-Central - 19	Heavy Duty Mechanic Welder	Welder	83.3	42	2.0	Diesel	400	0.45		
Bouldin I-Central - 19	Hydraulic 25 Ton Crane	Crane	83.3	42	2	Diesel	100	0.29		
Bouldin I-Central - 19	Hydraulic 55 Ton Crane	Crane	595.8	42	14	Diesel	350	0.29		
Bouldin I-Central - 19	Manitowoc 777 200 Ton Crane	Crane	595.8	42	14	Diesel	760	0.29		
Bouldin I-Central - 19	Telescope RT Forklift 5500	Forklift	591.7	42	14	Diesel	63	0.2		
Bouldin I-Central - 19	Truck Crane Lattice Boom 90T	Crane	83.3	42	2	Diesel Tier 4	300	0.29		
Bouldin I-Central - 20	Telescope RT Forklift 5500	Forklift	383.3	24	16	Diesel	63	0.2		
Bouldin I-Central - 21	CAT 14 M	Grader	31.5	5	6	Diesel	274	0.41		

Bouldin I-Central - 21	Cat 613 C Self Loading Scraper	Scraper	63	5	13	Diesel	187	0.48
Bouldin I-Central - 21	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	31.5	5	6	Diesel	158	0.38
Bouldin I-Central - 21	CAT D6LGPDozer w winch	Crawler Tractor	31.5	5	6	Diesel or Hybrid	179	0.43
Bouldin I-Central - 21	Water Pump 4" Electric	Pumps	31.5	5	6	Diesel	10	0.74
Bouldin I-Central - 22	CAT 12 M	Grader	10.5	127	0	Diesel	173	0.41
Bouldin I-Central - 22	CAT 390 MASS EXC	Excavator	588	127	5	Diesel	534	0.38
Bouldin I-Central - 22	Cat 6 mgal w/ CAT 725 Tractor, 320hp	Crawler Tractor	609	127	5	Diesel	320	0.43
Bouldin I-Central - 22	CAT 631G Scraper, Conventional	Scraper	1008	127	8	Diesel	515	0.48
Bouldin I-Central - 22	CAT 966 Gil Wheel Loader	Rubber Tired Loader	10.5	127	0	Diesel	170	0.36
Bouldin I-Central - 22	CAT D8Rii, Dozer w winch	Crawler Tractor	1080	127	9	Diesel	310	0.43
Bouldin I-Central - 22	CAT D9R, Dozer w ripper	Crawler Tractor	84	127	1	Diesel	410	0.43
Bouldin I-Central - 22	Farm Tractor, All Wheel Drive, 285 HP	Off-Highway Tractor	346.5	127	3	Diesel	80	0.44
Bouldin I-Central - 22	Hydro Mulcher, 18 HP	Pump	147	127	1	Diesel	25	0.29
Bouldin I-Central - 22	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	1470	127	12	Diesel	345	0.38

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

**Offroad Equipment (Electric) Inventory for Bouldin Island - Central Tunnel Shaft
Options 9A, 9B**

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
Bouldin I-Central - 4	Water Pump 4" Electric	7093	279	1	25
Bouldin I-Central - 5	Water Pump 4" Electric	3547	220	1	16
Bouldin I-Central - 17	Gantry Crane	958	167	0.25	1
Bouldin I-Central - 17	Axial Fan 114,000 CFM	1375	167	50	412
Bouldin I-Central - 18	Axial Fan 114,000 CFM	187123	1649	50	5,674
Bouldin I-Central - 18	Gantry Crane	38636.7	1649	0.25	6
Bouldin I-Central - 19	Gantry Crane	508.3	42	0.25	3
Bouldin I-Central - 20	Gantry Crane	383.3	24	0.25	4

Electricity for TBM Operations included in the Summary Workbook

Vehicle Inventory for Bouldin Island - Central Tunnel Shaft
Options 9A, 9B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	#day	Vehicle Hours	Hours/Trip	# of Vehicles / Trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/May) (@ 150000)
Vehicle Use on Paved Roads --- and Not on Construction Site												
Bouldin I - Central - 1	Truck, Flatbed, 10T, Hay	Materials from Stockton	39	400.0	0.6	632	16.2	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 1	Truck, Flatbed, 10T, Hay	Two Cranes and Forklift from and to Stockton	2	3.8	0.6	6	3.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 1	Truck, Flatbed, 10T, Hay	Materials from Stockton	39	18.4	0.6	29	0.7	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 3	Truck, Flatbed, 10T, Hay	Dozer and Grader from Stockton	1	1.3	0.6	2	2.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 3	Truck, Flatbed, 10T, Hay	Scraper from and to Stockton	2	1.3	0.6	2	1.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 4	Pickup 1/2T 2 WD	Materials from Stockton	279	7093.3	0.6	11200	40.1	Bouldin Island Shaft to/From Stockton	19	38	Hybrid Gasoline	
Bouldin I - Central - 4	Truck Flatbed 4 T Highway	Materials from Stockton	279	7093.3	0.6	11200	40.1	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 4	Mechanic Truck	Materials from Stockton	279	7093.3	0.6	11200	40.1	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 4	Truck, Flatbed, 10T, Hay	Crane, two Loaders, two Rollers, and Grader from Stockton	1	3.8	0.6	6	6.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 4	Truck Flatbed 4 T Highway	Materials from Stockton	279	124.8	0.6	197	0.7	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 4	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement from Stockton	279	1271.1	0.6	2007	7.2	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 5	Pickup 1/2T 2 WD	Materials from Stockton	220	3547.0	0.6	5601	25.5	Bouldin Island Shaft to/From Stockton	19	38	Hybrid Gasoline	
Bouldin I - Central - 5	Truck Flatbed 4 T Highway	Materials from Stockton	220	3547.0	0.6	5601	25.5	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 5	Mechanic Truck	Materials from Stockton	220	3547.0	0.6	5601	25.5	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 5	Truck, Flatbed, 10T, Hay	Crane, two Loaders, and Roller to Stockton	1	2.5	0.6	4	4.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 5	Truck, Flatbed, 10T, Hay	Crane from Stockton	1	0.6	0.6	1	1.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 5	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement from Stockton	220	561.8	0.6	887	4.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 6	Highway Dump Truck 18 CY	Materials from Stockton	250	5897.2	0.6	9311	37.2	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 6	Truck, Flatbed, 10T, Hay	Two Dozers, Roller, and three Graders to Stockton	1	3.8	0.6	6	6.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 6	Truck/ End Dump/ 16-20cy Hay	S&P Material in Covered Trucks from Twin Cities Complex	250	14993.3	0.9	17300	69.2	Bouldin Island Shaft to/From Twin Cities Complex	26	52	Diesel	
Bouldin I - Central - 7	Truck Flatbed 4 T Highway	Materials from Stockton	35	20.9	0.6	33	0.9	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 7	Truck Flatbed 4 T Highway	Rebar from Sacramento	35	10.9	1.4	8	0.2	Bouldin Island Shaft to/From Sacramento	41	82	Diesel	
Bouldin I - Central - 7	Concrete Transit Mix Truck 12cy	Concrete from Lodi	35	291.7	0.5	625	17.9	Bouldin Island Shaft to/From Lodi	14	28	Diesel	
Bouldin I - Central - 8	Truck Flatbed 4 T Highway	Materials from Stockton	18	20.9	0.6	33	1.8	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 8	Truck Flatbed 4 T Highway	Rebar from Sacramento	18	1.4	1.4	1	0.1	Bouldin Island Shaft to/From Sacramento	41	82	Diesel	
Bouldin I - Central - 8	Concrete Transit Mix Truck 12cy	Concrete from Lodi	18	294.0	0.5	37	2.1	Bouldin Island Shaft to/From Lodi	14	28	Diesel	
Bouldin I - Central - 9	Truck, Flatbed, 10T, Hay	Materials from Stockton	85	16.7	0.6	26	0.3	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 9	Truck, Flatbed, 10T, Hay	Two Cranes and Forklift from Stockton	1	1.9	0.6	3	3.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 9	Truck, Flatbed, 10T, Hay	Two Excavators, Crane, and Loader from and to Stockton	2	5.1	0.6	8	4.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 9	Truck Flatbed 4 T Highway	Materials from Stockton	85	20.9	0.6	33	0.9	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 9	Truck Flatbed 4 T Highway	Rebar from Sacramento	85	105.2	1.4	77	0.4	Bouldin Island Shaft to/From Sacramento	41	82	Diesel	
Bouldin I - Central - 9	Concrete Transit Mix Truck 12cy	Concrete from Lodi	85	1135.2	0.5	2486	29.4	Bouldin Island Shaft to/From Lodi	14	28	Diesel	
Bouldin I - Central - 9	Highway Dump Truck 18 CY	Slurry Wall Bottoms from Sacramento	85	241.9	1.4	177	2.1	Bouldin Island Shaft to/From Sacramento	41	82	Diesel	
Bouldin I - Central - 10	Concrete Transit Mix Truck 12cy	Concrete from Lodi	66	460.1	0.5	986	14.9	Bouldin Island Shaft to/From Lodi	14	28	Diesel	
Bouldin I - Central - 11	Truck, Flatbed, 10T, Hay	Crane from Stockton	1	0.6	0.6	1	1.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 11	Truck Flatbed 4 T Highway	Materials from Stockton	28	20.9	0.6	33	1.2	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 11	Truck Flatbed 4 T Highway	Rebar from Sacramento	28	21.9	1.4	16	0.6	Bouldin Island Shaft to/From Sacramento	41	82	Diesel	
Bouldin I - Central - 11	Concrete Transit Mix Truck 12cy	Concrete from Lodi	28	611.8	0.5	1311	46.8	Bouldin Island Shaft to/From Lodi	14	28	Diesel	
Bouldin I - Central - 12	Truck, Flatbed, 10T, Hay	Crane from and to Stockton	2	1.3	0.6	2	1.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 13	Truck Flatbed 4 T Highway	Materials from Stockton	10	20.9	0.6	33	3.3	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 13	Truck Flatbed 4 T Highway	Rebar from Sacramento	10	2.7	1.4	2	0.2	Bouldin Island Shaft to/From Sacramento	41	82	Diesel	
Bouldin I - Central - 13	Concrete Transit Mix Truck 12cy	Concrete from Lodi	10	43.9	0.5	94	9.4	Bouldin Island Shaft to/From Lodi	14	28	Diesel	
Bouldin I - Central - 14	Truck Flatbed 4 T Highway	Rebar from Sacramento	20	6.8	1.4	5	0.3	Bouldin Island Shaft to/From Sacramento	41	82	Diesel	
Bouldin I - Central - 15	Truck, Flatbed, 10T, Hay	Crane to Stockton	1	0.6	0.6	1	1.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 15	Truck Flatbed 4 T Highway	Materials from Stockton	60	20.9	0.6	33	0.6	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 15	Concrete Transit Mix Truck 12cy	Concrete from Lodi	60	221.2	0.5	474	7.9	Bouldin Island Shaft to/From Lodi	14	28	Diesel	
Bouldin I - Central - 16	Truck, Flatbed, 10T, Hay	Crane to Stockton	1	0.6	0.6	1	1.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 16	Truck, Flatbed, 10T, Hay	Crane from and to Stockton	2	1.3	0.6	2	1.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 17	Truck, Flatbed, 10T, Hay	Pre Cast Segments from Stockton	167	1264.8	0.6	1997	12.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 17	Highway Dump Truck 18 CY	Concrete and Grout from Lodi	167	476.5	0.5	1021	6.1	Bouldin Island Shaft to/From Lodi	14	28	Diesel	
Bouldin I - Central - 18	Truck, Flatbed, 10T, Hay	Two Cranes to Stockton	1	1.3	0.6	2	2.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 18	Truck, Flatbed, 10T, Hay	Loader from and to Stockton	2	1.3	0.6	2	1.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 18	Truck Flatbed 4 T Highway	Materials from Stockton	1649	235.0	0.6	371	0.2	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 18	Truck, Flatbed, 10T, Hay	Pre Cast Segments from Stockton	1649	43008.4	0.6	67908	41.2	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 18	Highway Dump Truck 18 CY	Grout from Lodi	1649	7115.3	0.5	13247	9.2	Bouldin Island Shaft to/From Lodi	14	28	Diesel	
Bouldin I - Central - 18	Highway Dump Truck 18 CY	Base Rock from Lodi	1649	26.6	0.5	57	0.0	Bouldin Island Shaft to/From Lodi	14	28	Diesel	
Bouldin I - Central - 19	Truck, Flatbed, 10T, Hay	Three Cranes from and to Stockton	2	3.8	0.6	6	3.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 20	Truck, Flatbed, 10T, Hay	Forklift to Stockton	1	0.6	0.6	1	1.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 20	Truck, Flatbed, 10T, Hay	Two Cranes from and to Stockton	2	2.5	0.6	4	2.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 21	Pickup 1/2T 2 WD	Materials from Stockton	5	31.5	0.6	50	9.9	Bouldin Island Shaft to/From Stockton	19	38	Hybrid Gasoline	
Bouldin I - Central - 21	Truck, Flatbed, 10T, Hay	Roller to Stockton	1	0.6	0.6	1	1.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 21	Truck, Flatbed, 10T, Hay	Tractor, Grader, Roller, and Scraper from and to Stockton	2	5.1	0.6	8	4.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I - Central - 21	Highway Dump Truck 18 CY	Base Rock from Lodi	5	25.2	0.5	54	10.8	Bouldin Island Shaft to/From Lodi	14	28	Diesel	
Bouldin I - Central - 22	Pickup 1/2T 2 WD	Materials from Stockton	127	588.0	0.6	928	7.3	Bouldin Island Shaft to/From Stockton	19	38	Hybrid Gasoline	

Bouldin I Central - 22	Truck, Flatbed, 10T, Hwy	Scrapers from and to Stockton	2	1.3	0.6	2	1.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel
Bouldin I Central - 22	Truck, Flatbed, 10T, Hwy	Two Excavators, Grader, 4 Tractors, Loader, and Scraper from and to Stockton	2	11.4	0.6	18	9.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel
Bouldin I Central - 22	Truck Flatbed 4 T Highway	Materials from Stockton	127	57.6	0.6	91	0.7	Bouldin Island Shaft to/From Stockton	19	38	Diesel

Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) — on the Construction Site										Miles On Site	
Bouldin I Central - 5	Concrete Pump Truck	Off-Highway Truck	220	464.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2320	Diesel
Bouldin I Central - 7	Concrete Pump Truck	Off-Highway Truck	35	294.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1470	Diesel
Bouldin I Central - 8	CAT 730 Rear Dump	Dumper	18	162	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		809	Diesel or Hybrid
Bouldin I Central - 9	CAT 730 Rear Dump	Dumper	85	646	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		3230	Diesel or Hybrid
Bouldin I Central - 9	Articulated Rear Dump 22 CY/CAT 730	Dumper	85	566.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2833	Diesel or Hybrid
Bouldin I Central - 9	Concrete Pump Truck	Off-Highway Truck	85	1133.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		5666	Diesel
Bouldin I Central - 22	CAT 740 40T, Articulated End dump	Dumper	127	1008.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		5040	Diesel or Hybrid
Bouldin I Central - 22	Truck, End Dump, 10-13cy, Hwy	Dumper	127	7056.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		35280	Diesel

Employees Required to Bouldin Island - Central Tunnel Shaft
Options 9A, 9B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute miles 1 way/ Day
Bouldin I-Central - 1	Bullgang Foreman	400	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 1	Bullgang Laborer	800	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 1	Mechanic / Welder	400	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 1	Hyd Crane Operator	800	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 1	Flat Truck Driver	400	10		Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-1						
Bouldin I-Central - 2	Accountant	15552.0	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Concrete Superintendent	7776.0	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Cost Engineer	15552.0	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Electrical Superintendent	15552.0	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	EMT	15552.0	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Environmental Manager	15552.0	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Equipment Superintendent	15552.0	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Field Engineer	11664.0	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	General Superintendent	15552.0	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Geotechnical Manager	15552.0	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Office Administrator	15552.0	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Office Manager	15552.0	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Payroll Clerk	15552.0	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Project Engineer	15552.0	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Project Manager	15552.0	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Purchasing Agent	15552.0	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	QC Manager	15552.0	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	QC Technician	7776.0	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Runner	15552.0	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Safety Engineer	31104.0	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Safety Manager	15552.0	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Schedule Engineer	7776.0	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Shift Engineers	31104.0	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Survey Party Chief	15552.0	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Survey Rod Man	15552.0	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Tunnel Superintendent	15552.0	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Tunnel Walkers	31104.0	10		Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-2						
Bouldin I-Central - 3	Dozer Operator	1018	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 3	General Foreman	509	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 3	Grader Operator	1018	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 3	Operator G4 Grade Check	509	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 3	Scraper Operator	2036	10		Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-3						
Bouldin I-Central - 4	Laborer G2 General	20640	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 4	Operating Engineer	6880	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 4	Operator G2 Plant Operator	13760	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 4	Operator G3 BH Loader	6880	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 4	Operator G3a Crane	6880	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 4	Operator G4 Grade Check	6880	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 4	Operator G4 Heavy Duty Mechanic	6880	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 4	Teamster G1 Hwy	6880	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 4	Teamster G2 Hwy	6880	10		Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-4						
Bouldin I-Central - 5	Carpenter	928	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Carpenter Foreman	116	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Compactor Operator	244	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Dozer Operator	122	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Flagger	244	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	General Foreman	122	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	General Laborer	476	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Grade Setter / Checker	122	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Grader Operator	122	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Laborer G2 General	10641	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Loader Operator	122	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Operating Engineer	3547	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Operator G2 Plant Operator	7094	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Operator G3 BH Loader	3547	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Operator G3a Crane	3547	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Operator G4 Grade Check	3547	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Operator G4 Heavy Duty Mechanic	3547	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Teamster G1 Hwy	3547	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Teamster G2 Hwy	3547	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Truck Driver	464	10		Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-5						

Bouldin I-Central - 6	Compactor Operator	5897.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 6	Dozer Operator	5897.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 6	Grade Setter / Checker	5897.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 6	Grader Operator	5897.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 6	Truck Driver	5897.2	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-6					
Bouldin I-Central - 7	Carpenter	712	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 7	Carpenter Foreman	108	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 7	General Laborer	404	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 7	Hyd Crane Operator	226	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 7	Iron Worker	1880	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 7	Iron Worker Foreman	188	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 7	Truck Driver	280	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-7					
Bouldin I-Central - 8	Carpenter	713.7	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 8	Carpenter Foreman	178.4	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 8	Excavator Operator	10	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 8	General Laborer	16.7	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 8	Lead Miner	10	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 8	Loader Operator	10	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 8	Miner	10	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 8	Shifter	10	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 8	Truck Driver	159.6	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-8					
Bouldin I-Central - 9	Bullgang Foreman	16.7	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Bullgang Laborer	33.4	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Carpenter	340.6	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Carpenter Foreman	85.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Crane Oiler	1133.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Excavator Operator	413.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Flat Truck Driver	16.7	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	General Foreman	1731.7	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	General Laborer	9327.7	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Hyd Crane Operator	1541.6	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Iron Worker	8862.5	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Iron Worker Foreman	1464.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Lead Miner	566.6	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Miner	4532.9	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Shaft Crane Operator	1133.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Shifter	1699.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Truck Driver	645.9	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-9					
Bouldin I-Central - 10	Shaft Crane Operator	770.9	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 10	Toplander	770.9	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 10	Crane Oiler	770.9	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-10					
Bouldin I-Central - 11	Bottomlander	243.1	24	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 11	Hyd Crane Operator	290.8	24	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 11	Iron Worker	2612.9	24	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 11	Iron Worker Foreman	326.6	24	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 11	Lead Miner	51.8	24	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 11	Miner	1067.8	24	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 11	Shaft Crane Operator	243.1	24	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 11	Shifter	378.4	24	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 11	Toplander	577	24	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-11					
Bouldin I-Central - 12	Hyd Crane Operator	104.3	24	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 12	Lead Miner	104.3	24	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 12	Miner	834.8	24	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 12	Shifter	104.3	24	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-12					
Bouldin I-Central - 13	Crane Oiler	96.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 13	Electrician	22.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 13	Iron Worker	592.7	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 13	Iron Worker Foreman	74.1	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 13	Lead Miner	22.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 13	Mechanic Welder	22.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 13	Miner	326	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 13	Shaft Crane Operator	96.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 13	Shifter	96.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 13	Toplander	96.3	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-13					
Bouldin I-Central - 14	Bottomlander	318.6	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 14	Crane Oiler	318.6	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 14	Iron Worker	2549	10	Lodi to/from Bouldin Island Shaft	14

Bouldin I-Central - 14	Iron Worker Foreman	318.6	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 14	Shaft Crane Operator	318.6	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 14	Toplander	318.6	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-14					
Bouldin I-Central - 15	Bottomlander	426.1	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 15	Concrete Pump Operator	251	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 15	Crane Oiler	669	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 15	Electrician	102.4	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 15	Lead Miner	723.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 15	Mechanic Welder	472.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 15	Miner	4018.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 15	Shaft Crane Operator	723.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 15	Shifter	723.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 15	Toplander	723.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 15	Truck Driver	11043.8	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-15					
Bouldin I-Central - 16	Bullgang Foreman	133.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 16	Bullgang Laborer	800	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 16	Crane Oiler	133.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 16	Electrician	133.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 16	Hyd Crane Operator	133.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 16	Master Mechanic	400	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 16	Mechanic / Welder	133.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 16	Shaft Crane Operator	133.3	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-16					
Bouldin I-Central - 17	Bottomlander	958.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Conveyor Belt Man	833.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Crane Oiler	958.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Electrician	3041.7	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Hyd Crane Operator	750	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Lead Miner	2125	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Mechanic / Welder	3041.7	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Miner	14250	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Segment Carrier Operator	2000	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Shaft Crane Operator	958.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Shifter	2125	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	ST2G Mucker Operator	333.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	TBM Operator	2333.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Toplander	958.3	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-17					
Bouldin I-Central - 18	Bottomlander	38636.7	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Bullgang Foreman	32849.2	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Bullgang Laborer	110180	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Conveyor Belt Man	23493.3	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Crane Oiler	38636.7	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Electrician	45226.7	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Fanline Carrier Operator	21733.3	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Flat Truck Driver	10608.3	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Hyd Crane Operator	21216.7	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Lead Miner	23493.3	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Loader Operator	21400	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Man Transport Truck Operator	22240.8	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Master Mechanic	10866.7	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Mechanic / Welder	66701.7	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Miner	178880	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Segment Carrier Operator	147633.3	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Shaft Crane Operator	38636.7	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Shifter	23493.3	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	TBM Operator	49986.7	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Toplander	38636.7	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Utility Truck Operator	22240.8	20	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-18					
Bouldin I-Central - 19	Bottomlander	1104.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Bullgang Foreman	83.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Bullgang Laborer	500	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Crane Oiler	679.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Electrician	1783.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Forklift Operator	508.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Hyd Crane Operator	679.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Lead Miner	1104.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Mechanic / Welder	1783.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Miner	5183.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Shaft Crane Operator	1187.5	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Shifter	1104.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Toplander	1104.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Utility Truck Operator	383.3	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-19					
Bouldin I-Central - 20	Bottomlander	383.3	10	Lodi to/from Bouldin Island Shaft	14

Bouldin I-Central - 20	Electrician	383.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Forklift Operator	383.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Lead Miner	383.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Mechanic / Welder	383.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Miner	2300	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Shaft Crane Operator	383.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Shifter	383.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Toplander	383.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Utility Truck Operator	383.3	10	Lodi to/from Bouldin Island Shaft	14

TOTAL Bouldin I-Central-20

Bouldin I-Central - 21	Laborer G2 General	30	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 21	OPERATING ENGINEER FOREMAN	30	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 21	Operator G2 Finish Blade	30	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 21	Operator G4 Dozer & Push Cat	30	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 21	Operator G4 Grade Check	30	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 21	Operator G4 Scraper	60	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 21	Operator G7 Roller, Compactor	30	10	Lodi to/from Bouldin Island Shaft	14

TOTAL Bouldin I-Central-21

Bouldin I-Central - 22	Laborer G2 Concrete Laborer	840	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Laborer G2 General	290	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Laborer G3 Flagman	980	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	OPERATING ENGINEER FOREMAN	715	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22			10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Operator G2 Excavator 3.5 to 7.0 cy	1680	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Operator G2 Finish Blade	10	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Operator G3 Loader >4cy	570	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Operator G4 Dozer & Push Cat	1040	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Operator G4 Scraper	960	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Operator G6 Tractor	330	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Teamster G4 ED 25-65 Cy	280	10	Lodi to/from Bouldin Island Shaft	14

TOTAL Bouldin I-Central-22

Marine Inventory for Bouldin Island - Central Tunnel Shaft
Options 9A, 9B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Bouldin Island - Central Tunnel Shaft
Options 9A, 9B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Bouldin Island - Central Tunnel Shaft
Options 9A, 9B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Bouldin Island - Central Tunnel Shaft
Options 9A, 9B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
Bouldin I-Central - 3	338	19	17.8	256579.8	13504						
Bouldin I-Central - 5		220									
Bouldin I-Central - 6		250									
Bouldin I-Central - 7		35				259495	1038				
Bouldin I-Central - 8		18									
Bouldin I-Central - 9		85		663	37						
Bouldin I-Central - 10		66		14164	167						
Bouldin I-Central - 11		28		84832.5	1285						
Bouldin I-Central - 13		10									
Bouldin I-Central - 15		60									
Bouldin I-Central - 18		1649									
Bouldin I-Central - 22	15.75	127	0.1								

**Demolition Assumptions for Bouldin Island - Central Tunnel Shaft
Options 9A, 9B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Bacon Island and Mandeville Island Access Road and New Overpass in Holt
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Lower Jones T Access Roadway Excavation	BI_MI Access -1	4/27/2026	5/14/2026	14	5	10
Lower Jones T Access Embankment	BI_MI Access -2	5/15/2026	6/3/2026	14	5	10
Lower Jones T Access Culvert Pipe	BI_MI Access -3	6/4/2026	6/9/2026	5	5	10
Lower Jones T Access Subdrain System	BI_MI Access -4	6/10/2026	7/31/2026	38	5	10
Lower Jones T Access Road Base and K Rails	BI_MI Access -5	8/3/2026	9/21/2026	38	5	10
Lower Jones T Access Overpass Roadway Excavation	BI_MI Access -6	9/21/2026	9/22/2026	2	2	10
Lower Jones T Access Overpass Embankment	BI_MI Access -7	9/23/2026	9/28/2026	5	5	10
Lower Jones T Access Overpass New Bridge/Overpass	BI_MI Access -8	9/23/2026	10/20/2026	20	5	10
Lower Jones T Access Overpass Culvert Pipe	BI_MI Access -9	9/29/2026	9/29/2026	1	1	10
Lower Jones T Access Overpass Subdrain System	BI_MI Access -10	9/30/2026	10/2/2026	3	3	10
Lower Jones T Access Overpass Road Base	BI_MI Access -11	10/5/2026	10/7/2026	3	3	10
Lower Jones T Access Paving and K Rails	BI_MI Access -12	10/8/2026	10/12/2026	5	5	10
Bacon I & Mandeville I Access Roadway Excavation	BI_MI Access -13	10/8/2026	10/20/2026	9	5	10
Bacon I & Mandeville I Access Embankment	BI_MI Access -14	10/29/2026	11/13/2026	12	5	10
Bacon I & Mandeville I Access Culvert Pipe	BI_MI Access -15	11/16/2026	11/18/2026	3	3	10
Bacon I & Mandeville I Access Subdrain System	BI_MI Access -16	11/19/2026	1/5/2027	34	5	10
Bacon I & Mandeville I Access Road Base	BI_MI Access -17	1/6/2027	2/3/2027	21	5	10
Mandeville I Access Roadway Excavation & Bridge Removal	BI_MI Access -18	10/3/2027	11/5/2027	20	5	10
Mandeville I Access New Bridge	BI_MI Access -19	10/13/2027	3/30/2028	121	5	10
Mandeville I Access Embankment	BI_MI Access -20	11/8/2027	11/22/2027	9	5	10
Mandeville I Access Culvert Pipe	BI_MI Access -21	11/23/2027	11/24/2027	2	2	10
Mandeville I Access Subdrain System	BI_MI Access -22	11/25/2027	12/22/2027	20	5	10
Mandeville I Access Road Base	BI_MI Access -23	3/21/2028	4/5/2028	12	5	10
Lower Jones T 12-month Maintenance #1	BI_MI Access -24	4/1/2028	4/15/2028	9	5	10
Bacon I 12-month Maintenance #1	BI_MI Access -25	4/1/2028	4/15/2028	9	5	10
Lower Jones T 12-month Maintenance #2	BI_MI Access -26	4/1/2029	4/15/2029	9	5	10
Bacon I & Mandeville I 12-month Maintenance #2	BI_MI Access -27	4/1/2029	4/15/2029	9	5	10
Lower Jones T Overlay #1	BI_MI Access -28	6/13/2030	6/14/2030	2	2	10
Lower Jones T Overlay #2	BI_MI Access -29	8/7/2037	8/11/2037	5	5	10
Lower Jones Tract Access - Paved and Gravel Roads - Acres		22				
Bacon I & Mandeville I Access - Gravel Road - Acres		15				
Mandeville I Access - Gravel Road - Acres		9.5				

Construction Schedule for Mandeville Island - Central Tunnel Shaft						
Options 9A, 9B						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Clear and Grub	MI-Central - 1	2/27/2030	3/19/2030	15	5	10
Ground Improvement	MI-Central - 2	3/20/2030	5/14/2030	40	5	10
Raise Shaft Pad	MI-Central - 3	5/15/2030	5/13/2031	261	5	10
Excavate, Set Strips, & Place Guide Wall	MI-Central - 4	5/14/2031	5/30/2031	9	5	10
Place Guide Walls Concrete	MI-Central - 5	6/2/2031	6/2/2031	1	1	10
Excavate Slurry Wall & Place Concrete & Rebar	MI-Central - 6	6/3/2031	8/8/2021	44	7	24
Slurry Wall including Strip Forms and Place Rebar & Top Beam	MI-Central - 7	8/19/2031	8/22/2031	5	7	24
Excavate Shaft	MI-Central - 8	8/25/2031	10/1/2031	38	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	MI-Central - 9	10/2/2031	10/15/2031	14	7	24
Dewater Shaft	MI-Central - 10	10/16/2031	10/22/2031	7	7	24
Place TBM Cradle Rebar and Cradle Pour	MI-Central - 11	10/23/2031	10/28/2031	5	5	10
Breakout Slurry Wall for TBM	MI-Central - 12	10/31/2031	11/26/2031	19	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	MI-Central - 13	10/31/2031	2/19/2032	80	5	10
Place Shaft Cover	MI-Central - 14	2/19/2032	2/27/2032	7	5	10
Total Site Acres	14					

**Offroad Equipment (Fossil Fuel) Inventory for Mandeville Island - Central Tunnel Shaft
Options 9A, 9B**

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
Mi-Central - 1	CAT D8 Dozer	Crawler Tractor	28.86	15	2	Diesel Tier 4 or Hybrid Diesel	179	0.43		
Mi-Central - 1	CAT Grader 16H - 16' Blade	Grader	28.86	15	2	Diesel	285	0.41		
Mi-Central - 1	623G Scraper Elevate 21 CY	Scraper	57.72	15	4	Diesel	359	0.48		
Mi-Central - 2	Air Compressor 375 CFM	Air Compressor	240	40	6	Diesel Tier 4	122	0.48		
Mi-Central - 2	Case 590 SupN Loader	Rubber Tired Loaders	240	40	6	Diesel	160	0.29		
Mi-Central - 2	DMM Deep Soil Mixer	Trencher	240	40	6	Diesel	808	0.5		
Mi-Central - 2	DMM Grout Mix Plant	Other Industrial Equipmen	240	40	6	Diesel	500	0.34		
Mi-Central - 2	Grove RT Crane 30T	Crane	240	40	6	Diesel Tier 4	158	0.74		
Mi-Central - 2	Portable 90 Kw Diesel	Generators	40	40	1	Diesel	110	0.36		
Mi-Central - 2	Water Pump 4" Electric	Pumps	532.44	40	13	Diesel	10	0.74		
Mi-Central - 3	CAT CB-634D Vibratory 84"	Rollers	2220.7	261	9	Diesel	145	0.38		
Mi-Central - 3	CAT Grader 16H	Graders	2220.7	261	9	Diesel	285	0.41		
Mi-Central - 3	CAT D8 Dozer	Crawler Tractor	2220.7	261	9	Diesel	328	0.43		
Mi-Central - 4	CAT Hyd Excavator 1CY	Excavator	6.5	9	1	Diesel	138	0.38		
Mi-Central - 4	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	6.5	9	1	Diesel or Hybrid	130	0.36		
Mi-Central - 6	1600 CFM Compressor Diesel	Air Compressor	243.2	44	6	Diesel Tier 4	540	0.48		
Mi-Central - 6	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	498.9	44	11	Diesel	138	0.38		
Mi-Central - 6	CAT Hyd Excavator 1CY	Excavator	255.7	44	6	Diesel	350	0.29		
Mi-Central - 6	Hydraulic 55 Ton Crane	Crane	486.4	44	11	Diesel or Hybrid	130	0.36		
Mi-Central - 6	Hydraulic Excavator to 3.5 tons = Kobelco SK485	Excavator	255.7	44	6	Diesel	345	0.38		
Mi-Central - 6	Manitowoc 777 200 Ton Crane	Crane	486.4	44	11	Diesel	8	0.56		
Mi-Central - 6	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	243.2	44	6	Diesel	500	0.74		
Mi-Central - 6	Slurry Wall Techniwell	Pumps	243.2	44	6	Diesel	760	0.29		
Mi-Central - 7	250 CFM Compressor Diesel	Air Compressor	3.6	5	0.7	Diesel Tier 3	75	0.48		
Mi-Central - 8	Manitowoc 777 200 Ton Crane	Crane	272.3	38	7	Diesel	760	0.29		
Mi-Central - 9	Manitowoc 777 200 Ton Crane	Crane	120.5	14	9	Diesel	760	0.29		
Mi-Central - 9	Hydraulic 40 Ton Crane	Crane	39.1	14	3	Diesel	300	0.29		
Mi-Central - 9	Hydraulic 25 Ton Crane	Crane	83	14	6	Diesel	100	0.29		
Mi-Central - 10	Dewater Pump 6"	Pump	434.3	7	62	Diesel	50	0.74		
Mi-Central - 10	150 KW Diesel Generator	Generator	108.6	7	16	Diesel Tier 4	183	0.74		
Mi-Central - 10	Hydraulic 15 Ton Crane	Crane	108.6	7	16	Diesel	100	0.29		
Mi-Central - 11	Manitowoc 777 200 Ton Crane	Crane	38.2	5	8	Diesel	760	0.29		
Mi-Central - 11	250 CFM Compressor Diesel	Air Compressor	8.9	5	2	Diesel Tier 3	75	0.48		
Mi-Central - 11	Trailer Conc Pump 100 CY HR	Pump	8.9	5	2	Diesel	200	0.74		
Mi-Central - 12	250 CFM Compressor Diesel	Air Compressor	128.8	19	7	Diesel Tier 3	75	0.48		
Mi-Central - 12	Manitowoc 777 200 Ton Crane	Crane	128.8	19	7	Diesel	760	0.29		
Mi-Central - 13	250 CFM Compressor Diesel	Air Compressor	760	80	10	Diesel	85	0.29		
Mi-Central - 13	Hydraulic 9 Ton Crane	Crane	287.5	80	4	Diesel Tier 3	75	0.48		
Mi-Central - 13	Manitowoc 777 200 Ton Crane	Crane	110.7	80	1	Diesel	200	0.74		
Mi-Central - 13	Manitowoc 999-275 Ton Crane	Crane	139.3	80	2	Diesel	760	0.29		
Mi-Central - 13	Trailer Conc Pump 100 CY HR	Pump	348.7	80	4	Diesel	900	0.29		
Mi-Central - 14	CAT Forklift 5,500 LB	Aerial Lift	54.3	7	8	Diesel	85	0.29		
Mi-Central - 14	Hydraulic 40 Ton Crane	Crane	54.3	7	8	Diesel	300	0.29		
Mi-Central - 14	Hydraulic 9 Ton Crane	Crane	54.3	7	8	Diesel	63	0.31		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Mandeville Island - Central Tunnel Shaft
Options 9A, 9B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
MI-Central - 13	Axial Fan 114,000 CFM	65.1	80	50	41
MI-Central - 13	Electric Welder 400 AMP	222.4	80	15	42

Vehicle Inventory for Mandeville Island - Central Tunnel Shaft
Options 9A, 9B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs: office)	# day	Vehicle Hours	Hours/trip	# of Vehicles Trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
Mi-Central - 1	Truck, Flatbed, 10T, Hwy	Grader and Scraper to and from Stockton	2	3	0.8	4	2.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 1	Truck, Flatbed, 10T, Hwy	Crawler Tractor from Stockton	1	1	0.8	1	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 1	Pickup 1/2T 2 WD	Materials from Stockton	15	29	0.8	37	2	Mandeville I Shaft to/from Stockton	23	46	Hybrid Gasoline	
Mi-Central - 2	Pickup 1/2T 2 WD	Materials from Stockton	40	532.44	0.8	694	17	Mandeville I Shaft to/from Stockton	23	46	Hybrid Gasoline	
Mi-Central - 2	Truck Flatbed 4 T Highway	Materials from Stockton	40	532.44	0.8	694	17	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 2	Mechanic Truck	Materials from Stockton	40	532.44	0.8	694	17	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 2	Truck, Flatbed, 10T, Hwy	Crane, Trencher, & Other Equipment to and from Stockton	2	82	0.8	107	53.5	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 2	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement	40	312.7	2.3	134	3	Mandeville Island Shaft to/from Sacramento	70	140	Diesel	
Mi-Central - 2	Pickup 1/2T 2 WD	Materials from Stockton	40	6	0.8	8	1.0	Mandeville I Shaft to/from Stockton	23	46	Hybrid Gasoline	
Mi-Central - 2	Pickup 1/2T 2 WD	Materials from Stockton	40	29	0.8	37	0.93	Mandeville I Shaft to/from Stockton	23	46	Hybrid Gasoline	
Mi-Central - 3	Highway Dump Truck 18 CY	Materials from Stockton	261	2220.7	0.8	2897	11	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 3	Truck End Dump 16-20cy Hwy	RTM Material in Covered Trucks from Twin Cities Complex	261	12159	1.9	6514	25	Mandeville I Shaft to/from Twin Cities Complex	56	112	Diesel	
Mi-Central - 3	Truck, Flatbed, 10T, Hwy	Grader and Roller to and from Stockton	2	3	0.8	4	2.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 3	Truck, Flatbed, 10T, Hwy	Crawler Tractor to Stockton	1	1	0.8	1	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 3	Pickup 1/2T 2 WD	Materials from Stockton	261	29	0.8	37	0.14	Mandeville I Shaft to/from Stockton	23	46	Hybrid Gasoline	
Mi-Central - 4	Truck, Flatbed, 10T, Hwy	Excavator to and from Stockton	2	2	0.8	2	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 4	Truck, Flatbed, 10T, Hwy	Loader from Stockton	1	1	0.8	1	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 4	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	9	2	1.6	1	0.1	Mandeville I Shaft to/from Livermore	48	96	Diesel	
Mi-Central - 5	Concrete Transit Mix Truck 12cy	Concrete from Bacon Island	1	178	0.3	667	667	Mandeville I Shaft to/from Bacon Island	8	16	Diesel	
Mi-Central - 5	Highway Dump Truck 18 CY	Cement, Aggregate, and Sand from Stockton	1	10	0.8	14	14	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 5	Highway Dump Truck 18 CY	Flyash from Vernalis	1	1	1.7	1	1	Mandeville I Shaft to/from Vernalis	50	100	Diesel	
Mi-Central - 6	Concrete Transit Mix Truck 12cy	Concrete from Bacon Island	44	3	0.3	12	0	Mandeville I Shaft to/from Bacon Island	8	16	Diesel	
Mi-Central - 6	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	44	46	1.6	29	0.7	Mandeville I Shaft to/from Livermore	48	96	Diesel	
Mi-Central - 6	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	44	495	2.3	212	5	Mandeville I Shaft to/from Sacramento	70	140	Diesel	
Mi-Central - 6	Truck, Flatbed, 10T, Hwy	Crane and Other Equipment to and from Stockton	2	3	0.8	4	2.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 6	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	1	0.8	1	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 6	Highway Dump Truck 18 CY	Cement, Aggregate, and Sand from Stockton	44	258	0.8	337	8	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 6	Highway Dump Truck 18 CY	Flyash from Vernalis	44	19	1.7	11	0	Mandeville I Shaft to/from Vernalis	50	100	Diesel	
Mi-Central - 7	Truck, Flatbed, 10T, Hwy	Loader to Stockton	1	1	0.8	1	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 7	Concrete Transit Mix Truck 12cy	Concrete from Bacon Island	5	2	0.3	9	2	Mandeville I Shaft to/from Bacon Island	8	16	Diesel	
Mi-Central - 7	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	5	2	1.6	1	0.2	Mandeville I Shaft to/from Livermore	48	96	Diesel	
Mi-Central - 7	Highway Dump Truck 18 CY	Cement, Aggregate, and Sand from Stockton	5	5	0.8	7	1	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 7	Highway Dump Truck 18 CY	Flyash from Vernalis	5	1	1.7	0	0	Mandeville I Shaft to/from Vernalis	50	100	Diesel	
Mi-Central - 9	Truck Flatbed 4 T Highway	Rebar from Livermore	14	13	1.6	8	1	Mandeville I Shaft to/from Livermore	48	96	Diesel	
Mi-Central - 9	Truck, Flatbed, 10T, Hwy	Cranes to and from Stockton	2	3	0.8	4	2.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 9	Concrete Transit Mix Truck 12cy	Concrete from Bacon Island	14	140	0.3	525	38	Mandeville I Shaft to/from Bacon Island	8	16	Diesel	
Mi-Central - 9	Highway Dump Truck 18 CY	Cement, Aggregate, and Sand from Stockton	14	258	0.8	337	24	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 9	Highway Dump Truck 18 CY	Flyash from Vernalis	14	19	1.7	11	1	Mandeville I Shaft to/from Vernalis	50	100	Diesel	
Mi-Central - 10	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	2	0.8	2	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 11	Truck Flatbed 4 T Highway	Rebar from Livermore	5	2	1.6	1	0.2	Mandeville I Shaft to/from Livermore	48	96	Diesel	
Mi-Central - 11	Concrete Transit Mix Truck 12cy	Concrete from Bacon Island	5	10	0.3	38	8	Mandeville I Shaft to/from Bacon Island	8	16	Diesel	
Mi-Central - 11	Highway Dump Truck 18 CY	Cement, Aggregate, and Sand from Stockton	5	16	0.8	20	4	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 11	Highway Dump Truck 18 CY	Flyash from Vernalis	5	1	1.7	1	0	Mandeville I Shaft to/from Vernalis	50	100	Diesel	
Mi-Central - 12	Truck Flatbed 4 T Highway	Rebar from Livermore	19	3	1.6	2	0.1	Mandeville I Shaft to/from Livermore	48	96	Diesel	
Mi-Central - 13	Concrete Transit Mix Truck 12cy	Concrete from Bacon Island	80	106	0.3	396	5	Mandeville I Shaft to/from Bacon Island	8	16	Diesel	
Mi-Central - 13	Truck, Flatbed, 10T, Hwy	Crane to Stockton	2	1	0.8	1	0.5	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 13	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	2	0.8	2	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 13	Highway Dump Truck 18 CY	Cement, Aggregate, and Sand from Stockton	80	159	0.8	208	3	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 13	Highway Dump Truck 18 CY	Flyash from Vernalis	80	12	1.7	7	0	Mandeville I Shaft to/from Vernalis	50	100	Diesel	
Mi-Central - 14	Highway Flatbed 10 Ton	Materials from Stockton	7	54.3	0.8	71	10	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 14	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	2	0.8	2	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site										Miles On-Site		
Mi-Central - 4	CAT 730 Rear Dump	Dumper	9	20	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		101	Diesel or Hybrid	
Mi-Central - 6	CAT 730 Rear Dump	Dumper	44	277.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1386	Diesel or Hybrid	
Mi-Central - 6	Articulated Rear Dump 22 CY/CAT 730	Dumper	44	243.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1216	Diesel or Hybrid	
Mi-Central - 6	Concrete Pump Truck	Off-Highway Truck	44	486.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2432	Diesel	

Employees Required to Mandeville Island - Central Tunnel Shaft
Options 9A, 9B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
MI-Central - 1	General Foreman	14.43	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 1	Dozer Operator	28.86	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 1	Grader Operator	28.86	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 1	Operator G4 Grade Check	14.43	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 1	Scraper Operator	57.72	10		Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-1						
MI-Central - 2	Laborer G2 General	1597.32	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 2	Operator G3a Crane	532.44	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 2	Operator G3 BH Loader	532.44	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 2	Operating Engineer	532.44	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 2	Operator G4 Grade Check	532.44	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 2	Operator G4 Heavy Duty Mechanic	532.44	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 2	Operator G2 Plant Operator	1064.88	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 2	Teamster G1 Hwy	532.44	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 2	Teamster G2 Hwy	532.44	10		Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-2						
MI-Central - 3	Compactor Operator	1900.4	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 3	Dozer Operator	1900.4	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 3	Grade Setter / Checker	1900.4	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 3	Grader Operator	1900.4	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 3	Truck Driver	1900.4	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 3	Water Truck Highway Driver	1900.4	10		Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-3						
MI-Central - 4	Carpenter	333	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 4	Carpenter Foreman	80.7	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 4	Excavator Operator	4.5	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 4	Lead Miner	4.5	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 4	Loader Operator	4.5	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 4	Miner	4.5	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 4	Shifter	4.5	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 4	Truck Driver	13.6	10		Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-4						
MI-Central - 5	General Laborer	8.3	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 5	Carpenter	16.5	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 5	Carpenter Foreman	4.1	10		Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-5						
MI-Central - 6	Crane Oiler	339.2	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	General Foreman	517.5	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	General Laborer	2400.5	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Hyd Crane Operator	339.2	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Iron Worker	1696	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Iron Worker Foreman	339.2	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Lead Miner	169.6	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Loader Operator	347.9	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Mechanic Welder	339.2	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Miner	1356.8	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Shaft Crane Operator	339.2	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Slurry Wall Consultant		24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Truck Driver	193.3	24		Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-6						
MI-Central - 7	Carpenter	25.1	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 7	Carpenter Foreman	6.3	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 7	General Laborer	22.2	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 7	Iron Worker	38.4	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 7	Iron Worker Foreman	9.6	24		Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-7						
MI-Central - 8	Shaft Crane Operator	132.4	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 8	Toplander	132.4	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 8	Crane Oiler	132.4	24		Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-8						
MI-Central - 9	Bottomlander	84	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 9	Diver Contractor		24		Stockton to/from Mandeville I Shaft	23
MI-Central - 9	Hyd Crane Operator	85.2	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 9	Iron Worker	890.4	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 9	Iron Worker Foreman	111.3	24		Stockton to/from Mandeville I Shaft	23

MI-Central - 9	Lead Miner	14.5	24	Stockton to/from Mandeville I Shaft	23
MI-Central - 9	Miner	338.4	24	Stockton to/from Mandeville I Shaft	23
MI-Central - 9	Shifter	125.8	24	Stockton to/from Mandeville I Shaft	23
MI-Central - 9	Toplander	193.1	24	Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-9					
MI-Central - 10	Shifter	75.7	24	Stockton to/from Mandeville I Shaft	23
MI-Central - 10	Lead Miner	75.7	24	Stockton to/from Mandeville I Shaft	23
MI-Central - 10	Miner	605.7	24	Stockton to/from Mandeville I Shaft	23
MI-Central - 10	Hyd Crane Operator	75.7	24	Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-10					
MI-Central - 11	Crane Oiler	26.7	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Electrician	6.2	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Iron Worker	163.5	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Iron Worker Foreman	20.4	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Lead Miner	6.2	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Mechanic Welder	6.2	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Miner	90.6	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Shaft Crane Operator	26.7	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Shifter	26.7	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Toplander	26.7	10	Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-11					
MI-Central - 12	Bottomlander	89.9	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 12	Crane Oiler	89.9	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 12	Iron Worker	718.8	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 12	Iron Worker Foreman	89.9	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 12	Shaft Crane Operator	89.9	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 12	Toplander	89.9	10	Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-12					
MI-Central - 13	Bottomlander	77	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Concrete Pump Operator	48.7	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Crane Oiler	135	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Electrician	200.5	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Hyd Crane Operator	200.5	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Lead Miner	530	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Mechanic / Welder	636.4	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Miner	3544	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Shaft Crane Operator	174	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Shifter	530	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Toplander	174	10	Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-13					
MI-Central - 14	Bullgang Laborer	75.1	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 14	Mechanic / Welder	37.9	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 14	Hyd Crane Operator	75.7	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 14	Flat Truck Driver	37.9	10	Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-14					

Marine Inventory for Mandeville Island - Central Tunnel Shaft
Options 9A, 9B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Mandeville Island - Central Tunnel Shaft
Options 9A, 9B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

Helicopter Inventory for Mandeville Island - Central Tunnel Shaft
Options 9A, 9B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Mandeville Island - Central Tunnel Shaft
Options 9A, 9B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
MI-Central - 1	14	15	1	7274	485						
MI-Central - 3		261				97709	374				
MI-Central - 4		9		425.6	47						
MI-Central - 6		44		6098.5	139						
MI-Central - 8		38		29964.5	789						

**Demolition Assumptions for Mandeville Island - Central Tunnel Shaft
Options 9A, 9B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Bacon Island - Central Tunnel Shaft						
Options 9A, 9B						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Concrete Batch Plant	BI-Central - 1	4/30/2031	5/20/1931	15	5	10
Clear and Grub	BI-Central - 2	5/14/2031	5/20/2031	5	5	10
Ground Improvement	BI-Central - 3	6/2/2031	11/11/2031	117	5	10
Raise Shaft Pad	BI-Central - 4	11/12/2031	9/2/2032	190	5	10
Excavate, Set Strips, & Place Guide Wall	BI-Central - 5	9/3/2032	9/20/2032	14	5	10
Place Guide Walls Concrete	BI-Central - 6	9/21/2032	9/22/2032	1	1	10
Excavate Slurry Wall & Place Concrete & Rebar	BI-Central - 7	9/23/2032	11/1/2032	40	7	24
Slurry Wall including Strip Forms and Place Rebar & Top Beam	BI-Central - 8	11/2/2032	12/14/2032	43	7	24
Excavate Shaft	BI-Central - 9	12/15/2032	1/27/2033	47	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	BI-Central - 10	1/28/2033	2/10/2033	14	7	24
Dewater Shaft	BI-Central - 11	2/11/2033	2/17/2033	7	7	24
Place TBM Cradle Rebar and Cradle Pour	BI-Central - 12	2/18/2033	2/25/2033	6	5	10
Breakout Slurry Wall for TBM	BI-Central - 13	2/28/2033	3/24/2033	19	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	BI-Central - 14	3/25/2033	5/19/2033	40	5	10
Place Shaft Cover	BI-Central - 15	9/9/2036	9/17/2036	7	5	10
Complete Shaft Maintenance	BI-Central - 16	3/23/2034	4/21/2034	22	5	10
Batch Plant Operations	BI-Central - 17	5/20/2031	4/11/2033	500	5	10
Batch Plant Demobilization	BI-Central - 18	4/28/2033	5/4/2033	5	5	10
Total Site Acres	15					

Offroad Equipment (Fossil Fuel) Inventory for Bacon Island - Central Tunnel Shaft
Options 9A, 9B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
BI-Central - 1	Air Compressor 185 cfm	Air Compressor	400	15	27	Diesel Tier 4	49	0.48		
BI-Central - 1	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lift	200	15	13	Diesel	75	0.31		
BI-Central - 1	Grove RT Crane 80T, 275hp	Crane	400	15	27	Diesel	275	0.29		
BI-Central - 1	Boom Truck, 12.5 Tn Boom	Crane	200	15	13	Diesel or Hybrid	100	0.29		
BI-Central - 2	CAT D8 Dozer	Crawler Tractor	50.8	5	10	Diesel Tier 4 or Hybrid Diesel	179	0.43		
BI-Central - 2	623G Scraper Elevate 21 CY	Scaper	100.8	5	20	Diesel	359	0.48		
BI-Central - 2	CAT Grader 16H - 16' Blade	Grader	50.4	5	10	Diesel	285	0.41		
BI-Central - 3	Air Compressor 375 CFM	Air Compressor	1053	117	9	Diesel Tier 4	122	0.48		
BI-Central - 3	Case 590 SupN Loader	Rubber Tired Loaders	1053	117	9	Diesel	110	0.36		
BI-Central - 3	DMM Deep Soil Mixer	Bore Drill Rigs	1053	117	9	Diesel	808	0.5		
BI-Central - 3	DMM Grout Mtx Plant	Other Industrial Equipmen	1053	117	9	Diesel	500	0.34		
BI-Central - 3	Grove RT Crane 30T	Crane	1053	117	9	Diesel	160	0.29		
BI-Central - 3	Portable 90 Kw Diesel	Generators	117	117	1	Diesel Tier 4	158	0.74		
BI-Central - 3	Water Pump 4" Electric	Pumps	2340	117	20	Diesel	10	0.74		
BI-Central - 4	CAT CB-634D Vibratory 84"	Rollers	2904.5	190	15	Diesel	145	0.38		
BI-Central - 4	CAT Grader 16H	Graders	2904.5	190	15	Diesel	285	0.41		
BI-Central - 4	CAT D8 Dozer	Crawler Tractor	2904.5	190	15	Diesel	328	0.43		
BI-Central - 5	CAT Hyd Excavator 1CY	Excavator	6.5	14	0	Diesel	138	0.38		
BI-Central - 5	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	6.5	14	0	Diesel or Hybrid	130	0.36		
BI-Central - 7	1600 CFM Compressor Diesel	Air Compressor	243.2	40	6	Diesel Tier 4	540	0.48		
BI-Central - 7	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	243.2	40	6	Diesel or Hybrid	130	0.36		
BI-Central - 7	Hydraulic 55 Ton Crane	Crane	486.4	40	12	Diesel	350	0.29		
BI-Central - 7	Manitowoc 777 200 Ton Crane	Crane	486.4	40	12	Diesel	760	0.29		
BI-Central - 7	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	243.2	40	6	Diesel	8	0.56		
BI-Central - 7	Slurry Wall Techniwell	Pumps	243.2	40	6	Diesel	500	0.74		
BI-Central - 8	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	255.7	43	6	Diesel or Hybrid	130	0.36		
BI-Central - 8	250 CFM Compressor Diesel	Air Compressor	3.6	43	0.1	Diesel Tier 3	75	0.48		
BI-Central - 8	CAT Hyd Excavator 1CY	Excavator	255.7	43	5.9	Diesel	138	0.38		
BI-Central - 9	Manitowoc 777 200 Ton Crane	Crane	265.2	47	6	Diesel	760	0.29		
BI-Central - 10	Manitowoc 777 200 Ton Crane	Crane	120.5	14	9	Diesel	760	0.29		
BI-Central - 10	Hydraulic 40 Ton Crane	Crane	39.1	14	3	Diesel	300	0.29		
BI-Central - 10	Hydraulic 25 Ton Crane	Crane	83	14	6	Diesel	100	0.29		
BI-Central - 11	Dewater Pump 6"	Pump	434.3	7	62	Diesel	50	0.74		
BI-Central - 11	150 KW Diesel Generator	Generator	108.6	7	16	Diesel Tier 4	183	0.74		
BI-Central - 11	Hydraulic 15 Ton Crane	Crane	108.6	7	16	Diesel	100	0.29		
BI-Central - 12	Manitowoc 777 200 Ton Crane	Crane	38.6	6	6	Diesel	760	0.29		
BI-Central - 12	250 CFM Compressor Diesel	Air Compressor	8.9	6	1	Diesel Tier 3	75	0.48		
BI-Central - 12	Trailer Conc Pump 100 CY HR	Pump	8.9	6	1	Diesel	200	0.74		
BI-Central - 13	250 CFM Compressor Diesel	Air Compressor	255.7	19	13	Diesel Tier 3	75	0.48		
BI-Central - 13	Manitowoc 777 200 Ton Crane	Crane	255.7	19	13	Diesel	760	0.29		
BI-Central - 14	250 CFM Compressor Diesel	Air Compressor	387.6	40	10	Diesel Tier 3	75	0.48		
BI-Central - 14	Trailer Conc Pump 100 CY HR	Pump	194.9	40	5	Diesel	200	0.74		
BI-Central - 14	Manitowoc 777 200 Ton Crane	Crane	110.7	40	3	Diesel	760	0.29		
BI-Central - 14	Manitowoc 999-275 Ton Crane	Crane	276.9	40	7	Diesel	900	0.29		
BI-Central - 15	Hydraulic 9 Ton Crane	Crane	43.4	22	2	Diesel	85	0.29		
BI-Central - 15	Hydraulic 40 Ton Crane	Crane	43.4	22	2	Diesel	300	0.29		
BI-Central - 15	CAT Forklift 5,500 LB	Aerial Lift	43.4	22	2	Diesel	63	0.31		
BI-Central - 18	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lift	80	5	16	Diesel	75	0.31		
BI-Central - 18	Grove RT Crane 80T, 275hp	Crane	80	5	16	Diesel	275	0.29		
BI-Central - 18	Boom Truck, 12.5 Tn Boom	Crane	40	5	8	Diesel or Hybrid	100	0.29		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Bacon Island - Central Tunnel Shaft
Options 9A, 9B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment	
BI-Central - 1	Electric Welder 400 AMP	400	15	15		400
BI-Central - 3	Water Pump, 4" Electrical, Submersible	99.5	117		1	0.159
BI-Central - 18	Electric Welder 400 AMP	80	5	15		240

Vehicle Inventory for Bacon Island - Central Tunnel Shaft
Options 9A, 9B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/Trip	# of Vehicles Trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
Bi-Central - 1	Pickup, 1/2T, 2wd	Materials from Stockton	15	400	0.8	522	35	Bacon I Shaft to/from Stockton	23	46	Hybrid Gasoline	
Bi-Central - 1	Truck Flatbed 4 T Highway	Materials from Stockton	15	110	0.8	144	10	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 1	Truck Flatbed 4 T Highway	Batch Plant from Stockton	15	20	0.8	20	1	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 1	Truck, Flatbed, 10T, Hwy	Two Cranes to and from Stockton	2	2	0.8	2	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 2	Truck, Flatbed, 10T, Hwy	Scraper to and from Stockton	2	2	0.8	2	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 2	Truck, Flatbed, 10T, Hwy	Dozer and Grader from Stockton	1	2	0.8	2	2.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 3	Pickup 1/2T 2 WD	Materials from Stockton	117	2396.2	0.8	3125	27	Bacon I Shaft to/from Stockton	23	46	Hybrid Gasoline	
Bi-Central - 3	Truck Flatbed 4 T Highway	Materials from Stockton	117	2396.2	0.8	3125	27	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 3	Mechanic Truck	Materials from Stockton	117	2396.2	0.8	3125	27	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 3	Highway Dump Truck 18 CY	Cement from Stockton	117	460	0.8	600	5	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 3	Truck, Flatbed, 10T, Hwy	Crane, Trencher, Loader, & Other Equipment to and from Stockton	2	5	0.8	6	3.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 3	Highway Dump Truck 18 CY	Ground Treatment Cement from Stockton	117	423	0.8	552	5	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 4	Highway Dump Truck 18 CY	Materials from Stockton	190	2904.5	0.8	3788	20	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 4	Truck End Dump 16-20cy Hwy	RTM Material in Covered Trucks from Twin Cities Condale	190	15904	1.9	8520	45	Bacon I Shaft to/from Twin Cities Condale	56	112	Diesel	
Bi-Central - 4	Truck, Flatbed, 10T, Hwy	Roller to and from Stockton	2	2	0.8	2	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 4	Truck, Flatbed, 10T, Hwy	Dozer and Crawler Tractor to Stockton	1	2	0.8	2	2.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 5	Truck, Flatbed, 10T, Hwy	Excavator, Crane and Loader from Stockton	1	2	0.8	3	3.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 5	Truck Flatbed 4 T Highway	Rebar from Livermore	14	1	1.5	1	0	Bacon I Shaft to/from Livermore	44	88	Diesel	
Bi-Central - 5	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement from Bacon Island	14	0.8	0.0	25	2	Bacon I Shaft from Bacon I Concrete Batch Plant	1	2	Diesel	
Bi-Central - 5	Highway Dump Truck 18 CY	Cement, Aggregate, and Sand from Stockton	14	14	0.8	19	1	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 5	Highway Dump Truck 18 CY	Flyash from Vernalis	14	1	1.4	1	0	Bacon I Shaft to/from Vernalis	42	84	Diesel	
Bi-Central - 7	Truck Flatbed 4 T Highway	Rebar from Livermore	40	41	1.5	28	1	Bacon I Shaft to/from Livermore	44	88	Diesel	
Bi-Central - 7	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	1	0.8	1	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 7	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	2	0.8	2	2.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 7	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	40	473	2.2	212	5	Bacon I Shaft to/from Sacramento	67	134	Diesel	
Bi-Central - 7	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement from Bacon Island	40	214	0.0	642	16	Bacon I Shaft from Bacon I Concrete Batch Plant	1	2	Diesel	
Bi-Central - 7	Highway Dump Truck 18 CY	Cement, Aggregate, and Sand from Stockton	40	370	0.8	482	12	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 7	Highway Dump Truck 18 CY	Flyash from Vernalis	40	23	1.4	16	0	Bacon I Shaft to/from Vernalis	42	84	Diesel	
Bi-Central - 8	Truck, Flatbed, 10T, Hwy	Excavator and Loader to Stockton	1	2	0.8	2	2.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 8	Truck Flatbed 4 T Highway	Rebar from Livermore	43	1	1.5	1	0	Bacon I Shaft to/from Livermore	44	88	Diesel	
Bi-Central - 8	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement from Bacon Island	43	0.4	0.0	12	0	Bacon I Shaft from Bacon I Concrete Batch Plant	1	2	Diesel	
Bi-Central - 8	Highway Dump Truck 18 CY	Cement, Aggregate, and Sand from Stockton	43	7	0.8	9	0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 8	Highway Dump Truck 18 CY	Flyash from Vernalis	43	0	1.4	0	0	Bacon I Shaft to/from Vernalis	42	84	Diesel	
Bi-Central - 10	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	1	0.8	1	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 10	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	1	0.8	1	0.5	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 10	Truck Flatbed 4 T Highway	Rebar from Livermore	14	12	1.5	8	1	Bacon I Shaft to/from Livermore	44	88	Diesel	
Bi-Central - 10	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement from Bacon Island	14	17.5	0.0	525	38	Bacon I Shaft from Bacon I Concrete Batch Plant	1	2	Diesel	
Bi-Central - 10	Highway Dump Truck 18 CY	Cement, Aggregate, and Sand from Stockton	14	302	0.8	394	28	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 10	Highway Dump Truck 18 CY	Flyash from Vernalis	14	18	1.4	13	1	Bacon I Shaft to/from Vernalis	42	84	Diesel	
Bi-Central - 11	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	2	0.8	2	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 12	Truck Flatbed 4 T Highway	Rebar from Livermore	6	1	1.5	1	0.2	Bacon I Shaft to/from Livermore	44	88	Diesel	
Bi-Central - 12	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement from Bacon Island	6	1.3	0.0	38	6	Bacon I Shaft from Bacon I Concrete Batch Plant	1	2	Diesel	
Bi-Central - 12	Highway Dump Truck 18 CY	Cement, Aggregate, and Sand from Stockton	6	22	0.8	29	5	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 12	Highway Dump Truck 18 CY	Flyash from Vernalis	6	1	1.4	1	0	Bacon I Shaft to/from Vernalis	42	84	Diesel	
Bi-Central - 13	Truck Flatbed 4 T Highway	Rebar from Livermore	19	6	1.5	4	0.2	Bacon I Shaft to/from Livermore	44	88	Diesel	
Bi-Central - 14	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	1	0.8	1	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 14	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	2	0.8	2	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 14	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement from Bacon Island	40	10.0	0.0	301	8	Bacon I Shaft from Bacon I Concrete Batch Plant	1	2	Diesel	
Bi-Central - 14	Highway Dump Truck 18 CY	Cement, Aggregate, and Sand from Stockton	40	173	0.8	226	6	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 14	Highway Dump Truck 18 CY	Flyash from Vernalis	40	11	1.4	8	0	Bacon I Shaft to/from Vernalis	42	84	Diesel	
Bi-Central - 15	Highway Flatbed 10 Ton	Materials from Stockton	22	43.4	0.8	57	3	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 15	Truck, Flatbed, 10T, Hwy	Two Cranes to and from Stockton	2	3	0.8	4	2.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 15	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	1	0.8	1	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 16	Truck Flatbed 4 T Highway	Materials from Stockton	500	107	0.8	139	0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 16	Highway Dump Truck 18 CY	Cement from Stockton	500	387	0.8	505	1	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 16	Highway Dump Truck 18 CY	Concrete Aggregate from Stockton	500	724	0.8	944	2	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 16	Highway Dump Truck 18 CY	Concrete Sand from Stockton	500	577	0.8	753	2	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 16	Highway Dump Truck 18 CY	Flyash from Vernalis	500	108	1.4	77	0	Bacon I Shaft to/from Vernalis	42	84	Diesel	
Bi-Central - 17	Truck, Flatbed, 10T, Hwy	Two Cranes and Aerial Lift to and from Stockton	2	5	0.8	6	3.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site												
										Miles On-Site		
Bi-Central - 5	CAT 730 Rear Dump	Dumper	14	20	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		101	Diesel or Hybrid	
Bi-Central - 7	CAT 730 Rear Dump	Dumper	40	277.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1386	Diesel or Hybrid	
Bi-Central - 7	Articulated Rear Dump 22 CY/CAT 730	Dumper	40	243.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1216	Diesel or Hybrid	
Bi-Central - 7	Concrete Pump Truck	Off-Highway Truck	40	486.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2432	Diesel	

Employees Required to Bacon Island - Central Tunnel Shaft Options 9A, 9B

Code	Employee Type	Hours	# WorkDay		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
BI-Central - 1	Carpenter Apprentice	400	10		Stockton to/from Bacon I Shaft	23
BI-Central - 1	Carpenter Foreman	400	10		Stockton to/from Bacon I Shaft	23
BI-Central - 1	Millwright	400	10		Stockton to/from Bacon I Shaft	23
BI-Central - 1	Electrical Foreman	200	10		Stockton to/from Bacon I Shaft	23
BI-Central - 1	Electrician Journeyman	400	10		Stockton to/from Bacon I Shaft	23
	Iron Worker Journeyman					
BI-Central - 1	Rebar/Struct	800	10		Stockton to/from Bacon I Shaft	23
BI-Central - 1	Laborer G2 General	800	10		Stockton to/from Bacon I Shaft	23
BI-Central - 1	Operator G2a Cranes 45 to 100 t	400	10		Stockton to/from Bacon I Shaft	23
BI-Central - 1	Teamster G3 Boom Truck	200	10		Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-1						
BI-Central - 2	Dozer Operator	50.4	10		Stockton to/from Bacon I Shaft	23
BI-Central - 2	General Foreman	25.2	10		Stockton to/from Bacon I Shaft	23
BI-Central - 2	Grader Operator	50.4	10		Stockton to/from Bacon I Shaft	23
BI-Central - 2	Grader 16H - 16' Blade	50.4	10		Stockton to/from Bacon I Shaft	23
BI-Central - 2	Operator G4 Grade Check	25.2	10		Stockton to/from Bacon I Shaft	23
BI-Central - 2	Scraper Operator	100.8	10		Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-2						
BI-Central - 3	Foreman Operator	112	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Hydraulic Crane Operator	112	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Iron Worker	672	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Iron Worker Foreman	112	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Laborer G2 General	7188.5	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Operating Engineer	2,396.2	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Operator G2 Plant Operator	4,792.3	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Operator G3 BH Loader	2,396.2	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Operator G3a Crane	2,396.2	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Operator G4 Grade Check	2,396.2	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Operator G4 Heavy Duty Mechanic	2,396.2	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Teamster G1 Hwy	2,396.2	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Teamster G2 Hwy	2,396.2	10		Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-3						
BI-Central - 4	Compactor Operator	2904.5	10		Stockton to/from Bacon I Shaft	23
BI-Central - 4	Dozer Operator	2904.5	10		Stockton to/from Bacon I Shaft	23
BI-Central - 4	Grade Setter / Checker	2904.5	10		Stockton to/from Bacon I Shaft	23
BI-Central - 4	Grader Operator	2904.5	10		Stockton to/from Bacon I Shaft	23
BI-Central - 4	Truck Driver	2904.5	10		Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-4						
BI-Central - 5	Carpenter	383.7	10		Stockton to/from Bacon I Shaft	23
BI-Central - 5	Carpenter Foreman	95.9	10		Stockton to/from Bacon I Shaft	23
BI-Central - 5	Excavator Operator	6.5	10		Stockton to/from Bacon I Shaft	23
BI-Central - 5	Lead Miner	6.5	10		Stockton to/from Bacon I Shaft	23
BI-Central - 5	Loader Operator	6.5	10		Stockton to/from Bacon I Shaft	23
BI-Central - 5	Miner	6.5	10		Stockton to/from Bacon I Shaft	23
BI-Central - 5	Shifter	6.5	10		Stockton to/from Bacon I Shaft	23
BI-Central - 5	Truck Driver	19.5	10		Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-5						
BI-Central - 6	General Laborer	11.8	10		Stockton to/from Bacon I Shaft	23
BI-Central - 6	Carpenter	103.1	10		Stockton to/from Bacon I Shaft	23
BI-Central - 6	Carpenter Foreman	25.8	10		Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-6						
BI-Central - 7	Crane Oiler	486.4	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	General Foreman	486.4	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	General Laborer	2675.2	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Hyd Crane Operator	486.4	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Iron Worker	2432	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Iron Worker Foreman	486.4	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Lead Miner	243.2	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Loader Operator	243.2	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Mechanic Welder	486.4	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Miner	1945.6	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Shaft Crane Operator	486.4	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Shifter	729.6	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Truck Driver	277.2	24		Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-7						

BI-Central - 8	Carpenter	36	24	Stockton to/from Bacon I Shaft	23
BI-Central - 8	Carpenter Foreman	9	24	Stockton to/from Bacon I Shaft	23
BI-Central - 8	Excavator Operator	255.7	24	Stockton to/from Bacon I Shaft	23
BI-Central - 8	General Foreman	255.7	24	Stockton to/from Bacon I Shaft	23
BI-Central - 8	General Laborer	798.8	24	Stockton to/from Bacon I Shaft	23
BI-Central - 8	Iron Worker	55.1	24	Stockton to/from Bacon I Shaft	23
BI-Central - 8	Iron Worker Foreman	13.8	24	Stockton to/from Bacon I Shaft	23
BI-Central - 8	Loader Operator	255.7	24	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-8					
BI-Central - 9	Shaft Crane Operator	265.2	24	Stockton to/from Bacon I Shaft	23
BI-Central - 9	Toplander	265.2	24	Stockton to/from Bacon I Shaft	23
BI-Central - 9	Crane Oiler	265.2	24	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-9					
BI-Central - 10	Bottomlander	120.5	24	Stockton to/from Bacon I Shaft	23
BI-Central - 10	Hyd Crane Operator	122.1	24	Stockton to/from Bacon I Shaft	23
BI-Central - 10	Iron Worker	1276.8	24	Stockton to/from Bacon I Shaft	23
BI-Central - 10	Iron Worker Foreman	159.6	24	Stockton to/from Bacon I Shaft	23
BI-Central - 10	Lead Miner	20.8	24	Stockton to/from Bacon I Shaft	23
BI-Central - 10	Miner	485.3	24	Stockton to/from Bacon I Shaft	23
BI-Central - 10	Shaft Crane Operator	120.5	24	Stockton to/from Bacon I Shaft	23
BI-Central - 10	Shifter	180.4	24	Stockton to/from Bacon I Shaft	23
BI-Central - 10	Toplander	276.9	24	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-10					
BI-Central - 11	Hyd Crane Operator	108.6	24	Stockton to/from Bacon I Shaft	23
BI-Central - 11	Lead Miner	108.6	24	Stockton to/from Bacon I Shaft	23
BI-Central - 11	Miner	868.6	24	Stockton to/from Bacon I Shaft	23
BI-Central - 11	Shifter	108.6	24	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-11					
BI-Central - 12	Crane Oiler	38.6	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Electrician	8.9	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Iron Worker	237.4	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Iron Worker Foreman	29.7	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Lead Miner	8.9	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Mechanic Welder	8.9	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Miner	130.6	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Shaft Crane Operator	38.6	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Shifter	38.6	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Toplander	38.6	10	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-12					
BI-Central - 13	Bottomlander	255.7	10	Stockton to/from Bacon I Shaft	23
BI-Central - 13	Crane Oiler	255.7	10	Stockton to/from Bacon I Shaft	23
BI-Central - 13	Iron Worker	2045.5	10	Stockton to/from Bacon I Shaft	23
BI-Central - 13	Iron Worker Foreman	255.7	10	Stockton to/from Bacon I Shaft	23
BI-Central - 13	Shaft Crane Operator	255.7	10	Stockton to/from Bacon I Shaft	23
BI-Central - 13	Toplander	255.7	10	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-13					
BI-Central - 14	Bottomlander	111	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Concrete Pump Operator	138.4	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Crane Oiler	331	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Foreman Operator	84	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Hyd Crane Operator	84	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Iron Worker	504	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Iron Worker Foreman	84	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Lead Miner	387.6	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Mechanic / Welder	249.2	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Miner	2992.2	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Shaft Crane Operator	388	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Shifter	388	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Toplander	388	10	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-14					
BI-Central - 15	Bullgang Foreman	43.4	10	Stockton to/from Bacon I Shaft	23
BI-Central - 15	Bullgang Laborer	86.9	10	Stockton to/from Bacon I Shaft	23
BI-Central - 15	Flat Truck Driver	43.4	10	Stockton to/from Bacon I Shaft	23
BI-Central - 15	Hyd Crane Operator	86.9	10	Stockton to/from Bacon I Shaft	23
BI-Central - 15	Mechanic / Welder	43.4	10	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-15					
BI-Central - 16	Conveyor Belt Man	1,302.9	10	Stockton to/from Bacon I Shaft	23
BI-Central - 16	Electrician	1,302.9	10	Stockton to/from Bacon I Shaft	23
BI-Central - 16	Lead Miner	1,302.9	10	Stockton to/from Bacon I Shaft	23
BI-Central - 16	Mechanic / Welder	1,302.9	10	Stockton to/from Bacon I Shaft	23
BI-Central - 16	Miner	7,817.1	10	Stockton to/from Bacon I Shaft	23
BI-Central - 16	Shifter	1,302.9	10	Stockton to/from Bacon I Shaft	23
BI-Central - 16	TBM Operator	2,605.7	10	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-16					

BI-Central - 17	Heavy Duty Mechanic Welder	112	10	Stockton to/from Bacon I Shaft	23
BI-Central - 17	Foreman Operator	112	10	Stockton to/from Bacon I Shaft	23
BI-Central - 17	Hyd Crane Operator	112	10	Stockton to/from Bacon I Shaft	23
BI-Central - 17	Iron Worker Foreman	112	10	Stockton to/from Bacon I Shaft	23
BI-Central - 17	Iron Worker	672	10	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-17					
BI-Central - 18	Heavy Duty Mechanic Welder	84	10	Stockton to/from Bacon I Shaft	23
BI-Central - 18	Foreman Operator	84	10	Stockton to/from Bacon I Shaft	23
BI-Central - 18	Hyd Crane Operator	84	10	Stockton to/from Bacon I Shaft	23
BI-Central - 18	Iron Worker Foreman	84	10	Stockton to/from Bacon I Shaft	23
BI-Central - 18	Iron Worker	504	10	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-17					

TOTAL BI-Central-17

Marine Inventory for Bacon Island - Central Tunnel Shaft
Options 9A, 9B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Bacon Island - Central Tunnel Shaft
Options 9A, 9B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Bacon Island - Central Tunnel Shaft
Options 9A, 9B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Bacon Island - Central Tunnel Shaft
Options 9A, 9B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
BI-Central - 2	15	5	3	12707.1	2541						
BI-Central - 4		190				127799	673				
BI-Central - 6		1		425.6	426						
BI-Central - 8		43		6098.5	142						
BI-Central - 9		47		29191.2	621						

Demolition Assumptions for Bacon Island - Central Tunnel Shaft
Options 9A, 9B

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Bethany Park and Ride

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Excavation	BethanyPR-1	10/29/2026	11/3/2026	5	5	10
Culvert Pipe	BethanyPR-2	11/4/2026	11/4/2026	1	1	10
Subdrain System	BethanyPR-3	11/5/2026	11/5/2026	1	1	10
Road Base	BethanyPR-4	11/6/2026	11/9/2026	4	4	10
Asphalt Paving	BethanyPR-5	11/10/2026	11/11/2026	2	2	10
Electrical, Striping, and K-Rail Installation	BethanyPR-6	11/12/2026	11/12/2026	1	1	10

Acres

2.6

Construction Schedule for Byron Park and Ride

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	BPR -1	8/18/2026	9/4/2026	13	5	10
Embankment	BPR -2	9/7/2026	9/8/2026	2	2	10
Culvert Pipe	BPR -3	9/9/2026	9/14/2026	3	3	10
Subdrain System	BPR -4	9/15/2026	9/21/2026	5	5	10
Road Base	BPR -5	9/22/2026	10/8/2026	12	5	10
Asphalt Paving	BPR -6	10/9/2026	10/23/2026	10	5	10
Electrical, Striping, and K-Rail Installation	BPR -7	10/26/2026	10/29/2026	3	3	10

Acres

2.91

Construction Schedule for Bruns Complex Rds - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	BrCmplxRd-C&E Access -1	3/12/2027	3/15/2027	4	4	10
Embankment	BrCmplxRd-C&E Access -2	3/16/2027	3/16/2027	1	1	10
Culvert Pipe	BrCmplxRd-C&E Access -3	3/17/2027	3/17/2027	1	1	10
Bridge over Byron Highway	BrCmplxRd-C&E Access -4	3/17/2027	6/1/2027	54	5	10
Subdrain System	BrCmplxRd-C&E Access -5	3/18/2027	3/22/2027	5	5	10
Road Base	BrCmplxRd-C&E Access -6	3/23/2027	3/24/2027	2	2	10
Asphalt Paving	BrCmplxRd-C&E Access -7	6/2/2027	6/3/2027	2	2	10
KRail and Signs	BrCmplxRd-C&E Access -8	6/4/2027	6/4/2027	1	1	10
Intermediate Overlay	BrCmplxRd-C&E Access -9	5/13/2030	5/14/2030	2	2	10
Final Overlay	BrCmplxRd-C&E Access -10	6/29/2037	7/1/2037	3	3	10

Acres

5.3

Construction Schedule for Discovery Bay Rd Extension - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	DBExt-C&E Access -1	11/10/2026	11/13/2026	4	4	10
Embankment	DBExt-C&E Access -2	11/16/2026	11/20/2026	5	5	10
Culvert Pipe	DBExt-C&E Access -3	11/23/2026	11/24/2026	2	2	10
Subdrain System	DBExt-C&E Access -4	11/25/2026	12/7/2026	10	5	10
Road Base	DBExt-C&E Access -5	12/8/2026	12/22/2026	11	5	10
Asphalt Paving	DBExt-C&E Access -6	12/23/2026	12/30/2026	6	5	10
KRail and Signs	DBExt-C&E Access -7	12/31/2026	12/31/2026	1	1	10
Intermediate Overlay	DBExt-C&E Access -8	5/7/2030	5/8/2030	2	2	10
Final Overlay	DBExt-C&E Access -9	6/8/2037	6/10/2037	3	3	10

Acres

4.6

Construction Schedule for Western Farm Rd - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	WFRd-C&E Access -1	10/9/2026	10/14/2026	5	5	10
Embankment	WFRd-C&E Access -2	10/15/2026	10/19/2026	5	5	10
Culvert Pipe	WFRd-C&E Access -3	10/20/2026	10/20/2026	1	1	10
Subdrain System	WFRd-C&E Access -4	10/21/2026	10/27/2026	5	5	10
Road Base	WFRd-C&E Access -5	10/28/2026	11/9/2026	11	5	10
Asphalt Paving	WFRd-C&E Access -6	11/10/2026	11/17/2026	6	5	10
KRail and Signs	WFRd-C&E Access -7	11/18/2026	11/18/2026	1	1	10
Intermediate Overlay	WFRd-C&E Access -8	5/20/2030	5/21/2030	2	2	10
Final Overlay	WFRd-C&E Access -9	6/10/2037	6/12/2037	3	3	10

Acres

2

Construction Schedule for Southern Complex on Byron Tract - Central						
Option 9						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Rail Features in Northern Southern Forebay	SF - Central - 1	1/5/26	10/22/26	207	5	10
Rail Features in the Southern portion of Southern Forebay	SF - Central - 2	1/5/2026	4/2/2027	323	5	10
Rail Yard	SF - Central - 3	3/30/2026	3/19/2027	253	5	10
Byron Highway Interchange	SF - Central - 4	4/27/2026	3/11/2027	227	5	10
Pumping Plant Initial Site Work	SF - Central - 5	7/21/2027	8/20/2027	21	5	10
Pumping Plant Ground Improvement	SF - Central - 6	8/5/2027	4/18/2028	184	5	10
Pumping Plant Construction Phase 1	SF - Central - 7	4/1/2027	3/30/2028	260	5	10
Pumping Plant Contractor Operations	SF - Central - 8	7/21/2027	2/11/2033	1451	5	10
Pumping Plant Substation	SF - Central - 9	12/24/2029	12/2/2030	245	5	10
Pumping Plant Structure Phase 1	SF - Central - 10	3/17/2027	7/22/2027	91	5	10
Pumping Plant Structure Phase 2	SF - Central - 11	12/24/2029	3/10/2031	315	5	10
Pumping Plant Structure Phase 3	SF - Central - 12	11/21/2030	12/13/2033	799	5	10
Pumping Plant Wet Well	SF - Central - 13	3/6/2031	11/14/2034	964	5	10
Pumping Plant Outlet Structure	SF - Central - 14	8/2/2032	4/17/2035	706	5	10
Pumping Plant Dissipation Slab Phase 1A	SF - Central - 15A	12/18/2031	12/22/2032	264	5	10
Pumping Plant Dissipation Slab Phase 1B	SF - Central - 15B	1/10/2035	7/23/2036	400	5	10
Pumping Plant Electrical Building	SF - Central - 16	1/10/2035	9/17/2035	179	5	10
Pumping Plant Generator Building	SF - Central - 17	9/17/2035	11/8/2035	37	5	10
Pumping Plant HVAC	SF - Central - 18	10/11/2035	11/27/2035	34	5	10
Pumping Plant Finish Site Work	SF - Central - 19	9/17/2035	3/6/2037	383	5	10
Pumping Plant Finish Work Phase 1	SF - Central - 20	6/8/2033	8/8/2036	826	5	10
Pumping Plant Finish Work Phase 2	SF - Central - 21	12/3/2031	1/14/2036	1074	5	10
Pumping Plant Pumping Equipment	SF - Central - 22	6/19/2036	7/1/2037	269	5	10
Southern Forebay Site Preparation	SF - Central - 23	3/1/2028	12/7/2028	201	5	10
Southern Forebay Clear and Grub	SF - Central - 24	4/26/2028	1/4/2029	181	5	10
Southern Forebay Foundations	SF - Central - 25	4/26/2028	12/7/2029	445	5	10
Southern Forebay Embankments	SF - Central - 26	4/26/2030	7/6/2035	1355	5	10
Southern Forebay Soil Materials Handling	SF - Central - 27	6/7/2028	2/20/2035	1749	5	10
Southern Forebay Temporary Facilities During Construction	SF - Central - 28	3/1/2028	7/23/2036	2190	5	10
Southern Forebay Emnbankment Finish Work	SF - Central - 29	7/6/2035	7/23/2036	274	5	10
Southern Forebay Spillway	SF - Central - 30	9/5/2034	5/23/2035	186	5	10
Southern Forebay Outlet Structure	SF - Central - 31	1/27/2034	3/19/2036	559	5	10
Southern Forebay Inlet Structure	SF - Central - 32	5/23/2035	11/29/2035	136	5	10
Tunnel Launch Shaft Site Preparation for Shafts from Southern Forebay to South Delta Conveyance	SF - Central - 33	11/21/2029	11/14/2030	256	5	10
Raise Tunnel Eastern Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5E)	SF - Central - 34	11/21/2029	4/17/2031	366	5	10

Finalize Tunnel Eastern Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5E)	SF - Central - 35	4/18/2031	8/19/2031	88	5	10
Construct Tunnel from Eastern Shaft at Southern Forebay Outlet to South Delta Conveyance (called Shaft 5E)	SF - Central - 36	8/20/2031	10/15/2032	362	6	20
Finish Work for Tunnel Eastern Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5E)	SF - Central - 37	10/15/2032	11/26/2032	30	5	10
Raise Tunnel Western Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5W)	SF - Central - 38	7/31/2030	5/17/2034	990	5	10
Finalize Tunnel Western Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5W)	SF - Central - 39	11/28/2031	1/10/2033	292	5	10
Construct Tunnel from Western Shaft at Southern Forebay Outlet to South Delta Conveyance (called Shaft 5W)	SF - Central - 40	1/10/2033	4/12/2034	392	6	20
Finish Work for Tunnel Western Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5W)	SF - Central - 41	4/12/2034	6/1/2034	36	5	10
Tunnel Launch Shaft Site Preparation for Shaft at Northern portion of Southern Forebay	SF - Central - 42	10/12/2029	10/3/2036	1820	5	10
Raise Tunnel Shaft at Northern portion of Southern Forebay	SF - Central - 43	7/26/2030	6/25/2031	239	5	10
Finalize Tunnel Shaft at Northern portion of Southern Forebay	SF - Central - 44	6/25/2031	10/31/2031	91	5	10
Tunnel Launch Working Shaft Site Preparation at Northern portion of Southern Forebay	SF - Central - 45	12/7/2029	7/26/2030	165	5	10
Raise Tunnel Working Shaft at Northern portion of Southern Forebay	SF - Central - 46	3/8/2030	11/18/2031	443	5	10
Finalize Tunnel Working Shaft at Northern portion of Southern Forebay	SF - Central - 47	11/18/2031	2/9/2032	59	5	10
Construct Tunnel from Southern Forebay to Reception Shaft	SF - Central - 48	10/31/2031	6/27/2036	1458	6	20
Finish Work for Tunnel from Southern Forebay to Reception Shaft	SF - Central - 49	6/27/2036	10/3/2036	70	5	10
Erect Batch Plant #1	SF - Central - 50	3/5/2027	4/30/2027	40	5	10
Erect Batch Plant #2	SF - Central - 51	6/25/2030	8/19/2030	39	5	10
Operate Concrete Batch Plant	SF - Central - 52	4/30/2027	7/23/2036	2409	5	10
Intermediate Access Road Overlays	SF - Central - 53	6/3/2038	6/18/2038	11	5	10
Final Access Road Overlays	SF - Central - 54	4/22/2030	5/6/2030	10	5	10
Site Restoration	SF - Central - 55	3/19/2036	1/7/2037	210	5	10
Total Site Acres	1700					

**Vehicle Inventory for Southern Complex on Byron Tract - Central
Option 9**

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
SF - Central - 1	Air Compressor 185 cfm	Air Compressor	8.9	207	0.0	Diesel Tier 4	49	0.48		
SF - Central - 1	CAT Forklift 5,500 LB	Aerial Lift	799.7	207	3.9	Diesel	63	0.31		
SF - Central - 1	Grove RT Crane 30T	Crane	319.9	207	1.5	Diesel	160	0.29		
SF - Central - 1	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	4.4	207	0.0	Diesel	75	0.31		
SF - Central - 1	Boom Truck, 12.5 Tn Boom	Crane	4.4	207	0.0	Diesel or Hybrid	100	0.29		
SF - Central - 2	Air Compressor 185 cfm	Air Compressor	44.4	323	0.1	Diesel Tier 4	49	0.48		
SF - Central - 2	Boom Truck, 12.5 Tn Boom	Crane	22.2	323	0.1	Diesel or Hybrid	100	0.29		
SF - Central - 2	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	22.2	323	0.1	Diesel	75	0.31		
SF - Central - 2	CAT Forklift 5,500 LB	Aerial Lift	4000.3	323	12.4	Diesel	63	0.31		
SF - Central - 2	Grove RT Crane 55T, 247 hp	Crane	1600.1	323	5.0	Diesel	247	0.29		
SF - Central - 3	CAT 14 M	Grader	853.3	253	3.4	Diesel	274	0.41		
SF - Central - 3	CAT 825, Roller	Roller	466.1	253	1.8	Diesel	315	0.38		
SF - Central - 3	CAT 962 H Wheel Loader	Rubber Tired Loader	620.2	253	2.5	Diesel	230	0.36		
SF - Central - 3	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	620.2	253	2.5	Diesel	158	0.38		
SF - Central - 3	CAT D6LGPDozer w winch	Crawler Tractor	1799.2	253	7.1	Diesel or Hybrid	179	0.43		
SF - Central - 3	CAT LOADER/HOE 416 E	Rubber Tired Loaders	2613.1	253	10.3	Diesel	78	0.36		
SF - Central - 3	Compactor, Trench Roller, Vib 32" w	Rollers	378.7	253	1.5	Diesel	20	0.38		
SF - Central - 3	Disk, Towed	Off Highway Tractor	466.1	253	1.8	Diesel	140	0.44		
SF - Central - 3	Grove RT Crane 55T, 247 hp	Crane	2423.8	253	9.6	Diesel	247	0.29		
SF - Central - 3	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	363.6	253	1.4	Diesel	384	0.38		
SF - Central - 3	Light Plant, 4 lite, 1000w, Tower/Mast	Generator	1864.4	253	7.4	Diesel	12	0.74		
SF - Central - 3	Water Pump, 4" Diesel	Pumps	180	253	0.7	Diesel	10	0.74		
SF - Central - 4	Air Compressor 375 cfm	Air Compressor	30.4	227	0.1	Diesel Tier 4	122	0.48		
SF - Central - 4	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	311.9	227	1	Diesel or Hybrid	224	0.42		
SF - Central - 4	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	311.9	227	1	Diesel or Hybrid	137	0.38		
SF - Central - 4	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	311.9	227	1	Diesel or Hybrid	133	0.38		
SF - Central - 4	CAT 14 M	Grader	646.9	227	2.8	Diesel	274	0.41		
SF - Central - 4	CAT 815, Roller	Roller	203.4	227	0.9	Diesel	170	0.38		
SF - Central - 4	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	545.3	227	2.4	Diesel	158	0.38		
SF - Central - 4	CAT D6LGPDozer w winch	Crawler Tractor	470.7	227	2.1	Diesel or Hybrid	179	0.43		
SF - Central - 4	CAT LOADER/HOE 416 E	Rubber Tired Loaders	477.9	227	2.1	Diesel	78	0.36		
SF - Central - 4	Compactor, Plate, 22" w x 35"	Plate Compactors	30.4	227	0.1	Diesel	8.5	0.43		
SF - Central - 4	Compactor, Trench Roller, Vib 32" w	Rollers	140	227	0.6	Diesel	20	0.38		
SF - Central - 4	Disk, Towed	Off Highway Tractor	203.4	227	0.9	Diesel	140	0.44		
SF - Central - 4	Grove RT Crane 55T, 247 hp	Crane	1424.2	227	6.3	Diesel	247	0.29		
SF - Central - 4	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	267.3	227	1.2	Diesel	384	0.38		
SF - Central - 4	Light Plant, 4 lite, 1000w, Tower/Mast	Generator	813.4	227	3.6	Diesel	12	0.74		
SF - Central - 4	Manitowoc 555 150T, 250' Boom	Crane	1424.2	227	6.3	Diesel	760	0.29		
SF - Central - 4	Water Pump, 4" Diesel	Pumps	569.7	227	2.5	Diesel	10	0.74		
SF - Central - 5	CAT 14 M	Grader	337.3	21	15.7	Diesel	274	0.41		
SF - Central - 5	CAT 988 H Wheel Loader	Rubber Tired Loader	121.8	21	5.7	Diesel	400	0.36		
SF - Central - 5	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	121.8	21	5.7	Diesel	158	0.38		
SF - Central - 5	CAT D3 LGP, Dozer	Crawler Tractor	187.2	21	8.7	Diesel or Hybrid	76	0.43		
SF - Central - 5	CAT D6LGPDozer w winch	Crawler Tractor	187.2	21	8.7	Diesel or Hybrid	179	0.43		
SF - Central - 5	CAT IT28H, 10640 LB Tool Carrier	Rubber Tired Loaders	187.2	21	8.7	Diesel	145	0.36		
SF - Central - 5	Water Pump, 6" Diesel	Pumps	121.8	21	5.7	Diesel	13	0.74		
SF - Central - 5	Water Pump, 3" Gas, Diaphragm	Pumps	187.2	21	8.7	Gasoline	10	0.74		
SF - Central - 6	Air Compressor 185 cfm	Air Compressor	925.4	184	5.0	Diesel Tier 4	49	0.48		
SF - Central - 6	Air Compressor 375 cfm	Air Compressor	14904	184	81	Diesel Tier 4	122	0.48		
SF - Central - 6	Boom Truck, 12.5 Tn Boom	Crane	462.7	184	2.5	Diesel or Hybrid	100	0.29		
SF - Central - 6	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	14904	184	81	Diesel	110	0.36		
SF - Central - 6	DMM Deep Soil Mixer, 3 Shaft, 808 HP	Trencher	14904	184	81	Diesel	808	0.5		
SF - Central - 6	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	14904	184	81	Diesel	500	0.34		
SF - Central - 6	Grove RT Crane 30T	Crane	14904	184	81	Diesel	160	0.29		
SF - Central - 6	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	462.7	184	2.5	Diesel	75	0.31		
SF - Central - 6	Portable, 90 Kw, Diesel, 158HP	Welders	1472	184	8	Diesel Tier 4	158	0.45		
SF - Central - 7	Air Compressor 185 cfm	Air Compressor	3385.2	260	13.0	Diesel Tier 4	49	0.48		
SF - Central - 7	Boom Truck, 12.5 Tn Boom	Crane	1692.6	260	6.5	Diesel or Hybrid	100	0.29		
SF - Central - 7	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	936	260	3.6	Diesel	110	0.36		
SF - Central - 7	CAT 14 M	Grader	93.6	260	0.4	Diesel	274	0.41		
SF - Central - 7	Cat 613 C Self Loading Scraper	Scraper	187.2	260	0.7	Diesel	187	0.48		
SF - Central - 7	CAT 950 H Wheel Loader	Rubber Tired Loaders	936	260	3.6	Diesel or Hybrid	130	0.36		
SF - Central - 7	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	93.6	260	0.4	Diesel	158	0.38		
SF - Central - 7	CAT D6LGPDozer w winch	Crawler Tractor	93.6	260	0.4	Diesel or Hybrid	179	0.43		
SF - Central - 7	CAT LOADER/HOE 416 E	Rubber Tired Loaders	9126	260	35.1	Diesel	78	0.36		
SF - Central - 7	Compactor, Plate, 22" w x 35"	Plate Compactors	468	260	1.8	Diesel	8.5	0.43		
SF - Central - 7	Disk, Towed	Off Highway Tractor	9126	260	35.1	Diesel	140	0.44		
SF - Central - 7	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	4563	260	17.6	Diesel	80	0.44		
SF - Central - 7	Grove RT Crane 30T	Crane	164.8	260	0.6	Diesel	160	0.29		
SF - Central - 7	Grove RT Crane 80T, 275hp	Crane	164.8	260	0.6	Diesel	275	0.29		
SF - Central - 7	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	1775	260	6.8	Diesel	75	0.31		
SF - Central - 7	Water Pump, 4" Diesel	Pumps	93.6	260	0.4	Diesel	10	0.74		
SF - Central - 8	Air Compressor 900 cfm	Air Compressor	12168	1451	8.4	Diesel Tier 4	300	0.48		
SF - Central - 8	CAT 12 M	Grader	1676.4	1451	1.2	Diesel	173	0.41		
SF - Central - 8	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	1676.4	1451	1.2	Diesel	158	0.38		
SF - Central - 8	CAT LOADER/HOE 416 E	Rubber Tired Loaders	8382.1	1451	5.8	Diesel	78	0.36		
SF - Central - 8	Manitowoc 999-275 Ton Crane	Crane	24336	1451	16.8	Diesel	900	0.29		
SF - Central - 8	Portable, 90 Kw, Diesel, 158HP	Welders	24336	1451	16.8	Diesel Tier 4	158	0.45		
SF - Central - 8	Trk Crane, 200tn Hyd, 197bm, 563hp	Crane	24336	1451	16.8	Diesel	563	0.29		
SF - Central - 9	400A Diesel Welder, Trailer Mounted	Welders	397.8	245	1.6	Diesel	22	0.45		
SF - Central - 9	Air Compressor 185 cfm	Air Compressor	1170	245	4.8	Diesel Tier 4	49	0.48		
SF - Central - 9	Air Compressor 900 cfm	Air Compressor	351	245	1.4	Diesel Tier 4	300	0.48		
SF - Central - 9	Boom Truck, 12.5 Tn Boom	Crane	1170	245	4.8	Diesel or Hybrid	100	0.29		
SF - Central - 9	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	624	245	2.5	Diesel	110	0.36		
SF - Central - 9	CAT 12 M	Grader	7.3	245	0.0	Diesel	173	0.41		
SF - Central - 9	CAT 950 H Wheel Loader	Rubber Tired Loaders	97.5	245	0.4	Diesel or Hybrid	130	0.36		
SF - Central - 9	CAT 973 Track Loader, 4.2 cy, 263hp	Skid Loader	46.8	245	0.2	Diesel or Hybrid	210	0.37		
SF - Central - 9	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	97.5	245	0.4	Diesel	158	0.38		
SF - Central - 9	CAT D3 LGP, Dozer	Crawler Tractor	97.5	245	0.4	Diesel or Hybrid	76	0.43		
SF - Central - 9	CAT D6LGPDozer w winch	Crawler Tractor	29.3	245	0.1	Diesel or Hybrid	179	0.43		
SF - Central - 9	Compactor, Plate, 22" w x 35"	Plate Compactors	312	245	1.3	Diesel	8.5	0.43		
SF - Central - 9	Concrete Vibrator, 2"	Other Construction Eq	702	245	2.9	Gasoline	3	0.42		

SF - Central - 9	Grove RT Crane 30T	Crane	1170	245	4.8	Diesel	160	0.29
SF - Central - 9	Grove RT Crane 55T, 247 hp	Crane	222.3	245	0.9	Diesel	247	0.29
SF - Central - 9	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	29.3	245	0.1	Diesel	384	0.38
SF - Central - 9	Manitowoc 555 150T, 250' Boom	Crane	46.8	245	0.2	Diesel	760	0.29
SF - Central - 9	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	1170	245	4.8	Diesel	75	0.31
SF - Central - 9	Portable, 90 Kw, Diesel, 158HP	Welders	351	245	1.4	Diesel Tier 4	158	0.45
SF - Central - 10	400A Diesel Welder, Trailer Mounted	Welders	95	91	1.0	Diesel	22	0.45
SF - Central - 10	CAT 14 M	Grader	86.8	91	1.0	Diesel	274	0.41
SF - Central - 10	CAT 988 H Wheel Loader	Rubber Tired Loader	86.8	91	1.0	Diesel	400	0.36
SF - Central - 10	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	86.8	91	1.0	Diesel	158	0.38
SF - Central - 10	Grove RT Crane 55T, 247 hp	Crane	190.1	91	2.1	Diesel	247	0.29
SF - Central - 10	Portable, 90 Kw, Diesel, 158HP	Welders	95.1	91	1.0	Diesel Tier 4	158	0.45
SF - Central - 10	Water Pump, 6" Diesel	Pumps	86.8	91	1.0	Diesel	13	0.74
SF - Central - 11	Air Compressor 185 cfm	Air Compressor	1084.7	315	3.4	Diesel Tier 4	49	0.48
SF - Central - 11	Bentonite Mix Plant/Desander	Cement & Mortar Mix	10018.6	315	31.8	Diesel Tier 4	100	0.56
SF - Central - 11	Boom Truck, 12.5 Tn Boom	Crane	542.4	315	1.7	Diesel or Hybrid	100	0.29
SF - Central - 11	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	10018.6	315	31.8	Diesel	110	0.36
SF - Central - 11	CAT 14 M	Grader	488.6	315	1.6	Diesel	274	0.41
SF - Central - 11	CAT 962 H Wheel Loader	Rubber Tired Loader	10018.6	315	31.8	Diesel	230	0.36
SF - Central - 11	CAT 988 H Wheel Loader	Rubber Tired Loader	244.3	315	0.8	Diesel	400	0.36
SF - Central - 11	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	244.3	315	0.8	Diesel	158	0.38
SF - Central - 11	CAT D6LGPDozer w winch	Crawler Tractor	10018.6	315	31.8	Diesel or Hybrid	179	0.43
SF - Central - 11	Grove RT Crane 55T, 247 hp	Crane	10019.9	315	31.8	Diesel	247	0.29
SF - Central - 11	Grove RT Crane 80T, 275hp	Crane	10018.6	315	31.8	Diesel	275	0.29
SF - Central - 11	Manitowoc 555 150T, 250' Boom	Crane	18593.3	315	59.0	Diesel	760	0.29
SF - Central - 11	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	542.4	315	1.7	Diesel	75	0.31
SF - Central - 11	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	10018.6	315	32	Diesel	8	0.56
SF - Central - 11	Slurry Wall Techniwell	Pumps	10018.6	315	32	Diesel	500	0.74
SF - Central - 11	Well Drill	Bore/Drill Rigs	234	315	0.7	Diesel	136	0.5
SF - Central - 12	400A Diesel Welder, Trailer Mounted	Welders	3963.1	799	5.0	Diesel	22	0.45
SF - Central - 12	Air Compressor 375 cfm	Air Compressor	71.3	799	0.1	Diesel Tier 4	122	0.48
SF - Central - 12	Air Compressor 900 cfm	Air Compressor	3169.3	799	4.0	Diesel Tier 4	300	0.48
SF - Central - 12	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Construction E	251.7	799	0.3	Diesel	50	0.42
SF - Central - 12	Bobcat 5630 Skid Steer Loader	Skid Loader	325	799	0.4	Diesel	74	0.37
SF - Central - 12	CAT 14 M	Grader	158.9	799	0.2	Diesel	274	0.41
SF - Central - 12	CAT 390 MASS EXC	Excavator	2138.8	799	2.7	Diesel	534	0.38
SF - Central - 12	CAT 815, Roller	Roller	317.8	799	0.4	Diesel	170	0.38
SF - Central - 12	CAT D6LGPDozer w winch	Crawler Tractor	317.8	799	0.4	Diesel or Hybrid	179	0.43
SF - Central - 12	CAT D8Rii, Dozer w winch	Crawler Tractor	1688.4	799	2.1	Diesel	310	0.43
SF - Central - 12	Concrete Vibrator, 2"	Other Construction Eq	11675.5	799	14.6	Gasoline	3	0.42
SF - Central - 12	Grove RT Crane 15T, 100hp	Crane	441	799	0.6	Diesel	100	0.29
SF - Central - 12	Grove RT Crane 55T, 247 hp	Crane	8818.8	799	11.0	Diesel	247	0.29
SF - Central - 12	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	1821	799	2.3	Diesel	345	0.38
SF - Central - 12	Manitowoc 555 150T, 250' Boom Portable,	Crane	19807.6	799	24.8	Diesel	760	0.29
SF - Central - 12	20 Kw, Diesel, 36HP	Welders	71.3	799	0.1	Diesel Tier 4	36	0.45
SF - Central - 12	Portable, 90 Kw, Diesel, 158HP	Welders	3891.8	799	4.9	Diesel Tier 4	158	0.45
SF - Central - 12	Water Pump, 10" Diesel	Pumps	2510.8	799	3.1	Diesel	200	0.74
SF - Central - 13	400A Diesel Welder, Trailer Mounted	Welders	1913.3	964	2.0	Diesel	22	0.45
SF - Central - 13	Air Compressor 185 cfm	Air Compressor	253.8	964	0.3	Diesel Tier 4	49	0.48
SF - Central - 13	Air Compressor 375 cfm	Air Compressor	5.9	964	0.0	Diesel Tier 4	122	0.48
SF - Central - 13	Air Compressor 900 cfm	Air Compressor	1907.4	964	2.0	Diesel Tier 4	300	0.48
SF - Central - 13	Bentonite Mix Plant/Desander	Cement & Mortar Mix	2280.2	964	2.4	Diesel Tier 4	100	0.56
SF - Central - 13	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Construction E	200.7	964	0.2	Diesel	50	0.42
SF - Central - 13	Bobcat 5630 Skid Steer Loader	Skid Loader	106.1	964	0.1	Diesel	74	0.37
SF - Central - 13	Boom Truck, 12.5 Tn Boom	Crane	126.9	964	0.1	Diesel or Hybrid	100	0.29
SF - Central - 13	CAT 12 M	Grader	70.1	964	0.1	Diesel	173	0.41
SF - Central - 13	CAT 14 M	Grader	116	964	0.1	Diesel	274	0.41
SF - Central - 13	CAT 390 MASS EXC	Excavator	71.8	964	0.1	Diesel	534	0.38
SF - Central - 13	CAT 815, Roller	Roller	71.8	964	0.1	Diesel	170	0.38
SF - Central - 13	CAT 962 H Wheel Loader	Rubber Tired Loader	2280.2	964	2.4	Diesel	230	0.36
SF - Central - 13	CAT 988 H Wheel Loader	Rubber Tired Loader	40.1	964	0.0	Diesel	400	0.36
SF - Central - 13	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	40.1	964	0.0	Diesel	158	0.38
SF - Central - 13	CAT D3 LGP, Dozer	Crawler Tractor	280.4	964	0.3	Diesel or Hybrid	76	0.43
SF - Central - 13	CAT D6LGPDozer w winch	Crawler Tractor	2532	964	2.6	Diesel or Hybrid	179	0.43
SF - Central - 13	CAT D8Rii, Dozer w winch	Crawler Tractor	381.2	964	0.4	Diesel	310	0.43
SF - Central - 13	Compactor, Plate, 22" w x 35" Compactor,	Plate Compactors	106.1	964	0.1	Diesel	8.5	0.43
SF - Central - 13	Trench Roller, Vib 32" w	Rollers	106.1	964	0.1	Diesel	20	0.38
SF - Central - 13	Concrete Vibrator, 2"	Other Construction Eq	5722.3	964	5.9	Gasoline	3	0.42
SF - Central - 13	Grove RT Crane 55T, 247 hp	Crane	5183.7	964	5.4	Diesel	247	0.29
SF - Central - 13	Grove RT Crane 80T, 275hp	Crane	4560.8	964	4.7	Diesel	275	0.29
SF - Central - 13	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	280.4	964	0.3	Diesel	384	0.38
SF - Central - 13	Manitowoc 555 150T, 250' Boom	Crane	12090.2	964	12.5	Diesel	760	0.29
SF - Central - 13	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	126.9	964	0.1	Diesel	75	0.31
SF - Central - 13	Portable, 90 Kw, Diesel, 158HP	Welders	1907.4	964	2.0	Diesel Tier 4	158	0.45
SF - Central - 13	Water Pump, 10" Diesel	Pumps	1872	964	1.9	Diesel	200	0.74
SF - Central - 13	Water Pump, 6" Diesel	Pumps	2320.3	964	2.4	Diesel	13	0.74
SF - Central - 14	400A Diesel Welder, Trailer Mounted	Welders	3906.1	706	5.5	Diesel	22	0.45
SF - Central - 14	Air Compressor 375 cfm	Air Compressor	214.1	706	0.3	Diesel Tier 4	122	0.48
SF - Central - 14	Air Compressor 900 cfm	Air Compressor	3692.1	706	5.2	Diesel Tier 4	300	0.48
SF - Central - 14	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Construction E	404.9	706	0.6	Diesel	50	0.42
SF - Central - 14	Bobcat 5630 Skid Steer Loader	Skid Loader	1679.5	706	2.4	Diesel	74	0.37
SF - Central - 14	CAT 14 M	Grader	297.7	706	0.4	Diesel	274	0.41
SF - Central - 14	CAT 390 MASS EXC	Excavator	1123	706	1.6	Diesel	534	0.38
SF - Central - 14	CAT 815, Roller	Roller	595.3	706	0.8	Diesel	170	0.38
SF - Central - 14	CAT D6LGPDozer w winch	Crawler Tractor	595.3	706	0.8	Diesel or Hybrid	179	0.43
SF - Central - 14	CAT D8Rii, Dozer w winch	Crawler Tractor	595.3	706	0.8	Diesel	310	0.43
SF - Central - 14	Compactor, Plate, 22" w x 35" Compactor,	Plate Compactors	1679.5	706	2.4	Diesel	8.5	0.43
SF - Central - 14	Trench Roller, Vib 32" w Concrete Vibrator, 2"	Roller	1679.5	706	2.4	Diesel	20	0.38
SF - Central - 14	Grove RT Crane 55T, 247 hp	Crane	11076.2	706	15.7	Gasoline	3	0.42
SF - Central - 14	Grove RT Crane 80T, 275hp	Crane	3882.7	706	5.5	Diesel	247	0.29
SF - Central - 14	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	467.1	706	0.7	Diesel	275	0.29
SF - Central - 14	Manitowoc 555 150T, 250' Boom	Crane	527.7	706	0.7	Diesel	345	0.38
SF - Central - 14	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	8996.2	706	12.7	Diesel	760	0.29
SF - Central - 14	Portable, 20 Kw, Diesel, 36HP	Welders	190.7	706	0.3	Diesel	75	0.31
SF - Central - 14	Portable, 90 Kw, Diesel, 158HP	Welders	3692.1	706	5.2	Diesel Tier 4	158	0.45
SF - Central - 14	Vibro Driver/Extractor V208	Other Construction Eq	190.7	706	0.3	Diesel	325	0.42

SF - Central - 15A	400A Diesel Welder, Trailer Mounted	Welders	3650.4	264	13.8	Diesel	22	0.45
SF - Central - 15A	CAT IT28H, 10640 LB Tool Carrier	Rubber Tired Loaders	3650.4	264	13.8	Diesel	145	0.36
SF - Central - 15A	Manitowoc 555 150T, 250' Boom	Crane	3650.4	264	13.8	Diesel	760	0.29
SF - Central - 15B	400A Diesel Welder, Trailer Mounted	Welders	1049.9	400	2.6	Diesel	22	0.45
SF - Central - 15B	Air Compressor 185 cfm	Air Compressor	93.6	400	0.2	Diesel Tier 4	49	0.48
SF - Central - 15B	Air Compressor 375 cfm	Air Compressor	721.2	400	1.8	Diesel Tier 4	122	0.48
SF - Central - 15B	Air Compressor 900 cfm	Air Compressor	1049.9	400	2.6	Diesel Tier 4	300	0.48
SF - Central - 15B	Bentonite Mix Plant/Desander	Cement & Mortar Mix	721.2	400	1.8	Diesel Tier 4	100	0.56
SF - Central - 15B	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Construction E	98.5	400	0.2	Diesel	50	0.42
SF - Central - 15B	Bobcat S630 Skid Steer Loader	Skid Loader	305.3	400	0.8	Diesel	74	0.37
SF - Central - 15B	Boom Truck, 12.5 Tn Boom	Crane	46.8	400	0.1	Diesel or Hybrid	100	0.29
SF - Central - 15B	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	721.2	400	1.8	Diesel	110	0.36
SF - Central - 15B	CAT 12 M	Grader	364	400	0.9	Diesel	173	0.41
SF - Central - 15B	CAT 14 M	Grader	927.6	400	2.3	Diesel	274	0.41
SF - Central - 15B	CAT 953 Track Loader, 2.25cy, 148hp	Skid Loader	721.2	400	1.8	Diesel	148	0.37
SF - Central - 15B	CAT 988 H Wheel Loader	Rubber Tired Loader	463.8	400	1.2	Diesel	400	0.36
SF - Central - 15B	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	463.8	400	1.2	Diesel	158	0.38
SF - Central - 15B	CAT D6LGPDozer w winch	Crawler Tractor	3633	400	9.1	Diesel or Hybrid	179	0.43
SF - Central - 15B	Compactor, Plate, 22" w x 35"	Plate Compactors	305.3	400	0.8	Diesel	8.5	0.43
SF - Central - 15B	Compactor, Trench Roller, Vib 32" w	Roller	305.3	400	0.8	Diesel	20	0.38
SF - Central - 15B	Concrete Vibrator, 2"	Other Construction Eq	3149.6	400	7.9	Gasoline	3	0.42
SF - Central - 15B	Grove RT Crane 15T, 100hp	Crane	721.2	400	1.8	Diesel	100	0.29
SF - Central - 15B	Grove RT Crane 55T, 247 hp	Crane	1260.5	400	3.2	Diesel	247	0.29
SF - Central - 15B	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	1455.9	400	3.6	Diesel	384	0.38
SF - Central - 15B	Manitowoc 555 150T, 250' Boom	Crane	3550.1	400	8.9	Diesel	760	0.29
SF - Central - 15B	Portable, 90 Kw, Diesel, 158HP	Welders	1049.9	400	2.6	Diesel Tier 4	158	0.45
SF - Central - 15B	Water Pump, 6" Diesel	Pumps	1185	400	3.0	Diesel	13	0.74
SF - Central - 16	400A Diesel Welder, Trailer Mounted	Welders	352.3	179	2.0	Diesel	22	0.45
SF - Central - 16	Air Compressor 185 cfm	Air Compressor	1341.6	179	7.5	Diesel Tier 4	49	0.48
SF - Central - 16	Air Compressor 900 cfm	Air Compressor	352.3	179	2.0	Diesel Tier 4	300	0.48
SF - Central - 16	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Construction E	111	179	0.6	Diesel	50	0.42
SF - Central - 16	Boom Truck, 12.5 Tn Boom	Crane	1341.6	179	7.5	Diesel or Hybrid	100	0.29
SF - Central - 16	CAT 950 H Wheel Loader	Rubber Tired Loaders	88.1	179	0.5	Diesel or Hybrid	130	0.36
SF - Central - 16	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	88.1	179	0.5	Diesel	158	0.38
SF - Central - 16	CAT D3 LGP, Dozer	Crawler Tractor	88.1	179	0.5	Diesel or Hybrid	76	0.43
SF - Central - 16	Concrete Vibrator, 2"	Other Construction Eq	704.6	179	3.9	Gasoline	3	0.42
SF - Central - 16	Grove RT Crane 30T	Crane	1341.6	179	7.5	Diesel	160	0.29
SF - Central - 16	Grove RT Crane 55T, 247 hp	Crane	352.3	179	2.0	Diesel	247	0.29
SF - Central - 16	Manitowoc 555 150T, 250' Boom	Crane	352.3	179	2.0	Diesel	760	0.29
SF - Central - 16	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	1341.6	179	7.5	Diesel	75	0.31
SF - Central - 17	400A Diesel Welder, Trailer Mounted	Welders	94.7	37	2.5	Diesel	22	0.45
SF - Central - 17	Air Compressor 185 cfm	Air Compressor	1501.5	37	40.4	Diesel Tier 4	49	0.48
SF - Central - 17	Air Compressor 900 cfm	Air Compressor	94.7	37	2.5	Diesel Tier 4	300	0.48
SF - Central - 17	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Construction E	29.8	37	0.8	Diesel	50	0.42
SF - Central - 17	Boom Truck, 12.5 Tn Boom	Crane	1501.5	37	40.4	Diesel or Hybrid	100	0.29
SF - Central - 17	CAT 950 H Wheel Loader	Rubber Tired Loaders	13.3	37	0.4	Diesel or Hybrid	130	0.36
SF - Central - 17	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	13.3	37	0.4	Diesel	158	0.38
SF - Central - 17	CAT D3 LGP, Dozer	Crawler Tractor	13.3	37	0.4	Diesel or Hybrid	76	0.43
SF - Central - 17	Concrete Vibrator, 2"	Other Construction Eq	189.4	37	5.1	Gasoline	3	0.42
SF - Central - 17	Grove RT Crane 30T	Crane	1501.5	37	40.4	Diesel	160	0.29
SF - Central - 17	Grove RT Crane 55T, 247 hp	Crane	94.7	37	2.5	Diesel	247	0.29
SF - Central - 17	Manitowoc 555 150T, 250' Boom	Crane	94.7	37	2.5	Diesel	760	0.29
SF - Central - 17	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	1501.5	37	40.4	Diesel	75	0.31
SF - Central - 17	Portable, 90 Kw, Diesel, 158HP	Welders	94.7	37	2.5	Diesel Tier 4	158	0.45
SF - Central - 18	400A Diesel Welder, Trailer Mounted	Welders	51.6	34	1.5	Diesel	22	0.45
SF - Central - 18	Air Compressor 185 cfm	Air Compressor	0.2	34	0.0	Diesel Tier 4	49	0.48
SF - Central - 18	Air Compressor 900 cfm	Air Compressor	51.6	34	1.5	Diesel Tier 4	300	0.48
SF - Central - 18	Boom Truck, 12.5 Tn Boom	Crane	0.1	34	0.0	Diesel or Hybrid	100	0.29
SF - Central - 18	CAT 950 H Wheel Loader	Rubber Tired Loaders	29.5	34	0.9	Diesel or Hybrid	130	0.36
SF - Central - 18	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	29.5	34	0.9	Diesel	158	0.38
SF - Central - 18	CAT D3 LGP, Dozer	Crawler Tractor	29.5	34	0.9	Diesel or Hybrid	76	0.43
SF - Central - 18	Concrete Vibrator, 2"	Other Construction Eq	103.3	34	3.1	Gasoline	3	0.42
SF - Central - 18	Grove RT Crane 30T	Crane	0.1	34	0.0	Diesel	160	0.29
SF - Central - 18	Grove RT Crane 55T, 247 hp	Crane	51.6	34	1.5	Diesel	247	0.29
SF - Central - 18	Manitowoc 555 150T, 250' Boom	Crane	51.6	34	1.5	Diesel	760	0.29
SF - Central - 18	Portable, 90 Kw, Diesel, 158HP	Welders	51.6	34	1.5	Diesel Tier 4	158	0.45
SF - Central - 19	400A Diesel Welder, Trailer Mounted	Welders	945.3	383	2.5	Diesel	22	0.45
SF - Central - 19	Air Compressor 185 cfm	Air Compressor	2679.3	383	7.0	Diesel Tier 4	49	0.48
SF - Central - 19	Air Compressor 900 cfm	Air Compressor	945.3	383	2.5	Diesel Tier 4	300	0.48
SF - Central - 19	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	43.7	383	0	Diesel or Hybrid	224	0.42
SF - Central - 19	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	43.7	383	0	Diesel or Hybrid	137	0.38
SF - Central - 19	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	43.7	383	0	Diesel or Hybrid	133	0.38
SF - Central - 19	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Construction E	297.7	383	0.8	Diesel	50	0.42
SF - Central - 19	Bobcat S630 Skid Steer Loader	Skid Loader	1359.5	383	3.6	Diesel	74	0.37
SF - Central - 19	Boom Truck, 12.5 Tn Boom	Crane	2679.3	383	7.0	Diesel or Hybrid	100	0.29
SF - Central - 19	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	913.9	383	2.4	Diesel	110	0.36
SF - Central - 19	CAT 14 M	Grader	73.4	383	0.2	Diesel	274	0.41
SF - Central - 19	CAT 390 MASS EXC	Excavator	3.1	383	0.0	Diesel	534	0.38
SF - Central - 19	CAT 825, Roller	Roller	3.1	383	0.0	Diesel	315	0.38
SF - Central - 19	CAT 950 H Wheel Loader	Rubber Tired Loaders	1078	383	2.8	Diesel or Hybrid	130	0.36
SF - Central - 19	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	234.4	383	0.6	Diesel	158	0.38
SF - Central - 19	CAT D3 LGP, Dozer	Crawler Tractor	164.1	383	0.4	Diesel or Hybrid	76	0.43
SF - Central - 19	CAT D6LGPDozer w winch	Crawler Tractor	6.2	383	0.0	Diesel or Hybrid	179	0.43
SF - Central - 19	CAT LOADER/HOE 416 E	Rubber Tired Loaders	707.7	383	1.8	Diesel	78	0.36
SF - Central - 19	Compactor, Plate, 22" w x 35"	Plate Compactors	456.9	383	1.2	Diesel	8.5	0.43
SF - Central - 19	Concrete Vibrator, 2"	Other Construction Eq	1890.6	383	4.9	Gasoline	3	0.42
SF - Central - 19	Disk, Towed	Off Highway Tractor	3.1	383	0.0	Diesel	140	0.44
SF - Central - 19	Grove RT Crane 30T	Crane	2679.3	383	7.0	Diesel	160	0.29
SF - Central - 19	Grove RT Crane 55T, 247 hp	Crane	945.3	383	2.5	Diesel	247	0.29
SF - Central - 19	Manitowoc 555 150T, 250' Boom	Crane	472.6	383	1.2	Diesel	760	0.29
SF - Central - 19	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	2679.4	383	7.0	Diesel	75	0.31
SF - Central - 19	Portable, 90 Kw, Diesel, 158HP	Welders	945.3	383	2.5	Diesel Tier 4	158	0.45
SF - Central - 19	Water Pump, 4" Diesel	Pumps	14.7	383	0.0	Diesel	10	0.74
SF - Central - 20	400A Diesel Welder, Trailer Mounted	Welders	2585.4	826	3.1	Diesel	22	0.45
SF - Central - 20	Air Compressor 185 cfm	Air Compressor	6240	826	7.6	Diesel Tier 4	49	0.48
SF - Central - 20	Air Compressor 900 cfm	Air Compressor	2585.4	826	3.1	Diesel Tier 4	300	0.48
SF - Central - 20	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Construction E	358.4	826	0.4	Diesel	50	0.42
SF - Central - 20	Bobcat S630 Skid Steer Loader	Skid Loader	104.5	826	0.1	Diesel	74	0.37

SF - Central - 20	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	5070	826	6.1	Diesel	110	0.36
SF - Central - 20	Boom Truck, 12.5 Tn Boom	Crane	5070	826	6.1	Diesel or Hybrid	100	0.29
SF - Central - 20	Compactor, Plate, 22" w x 35"	Plate Compactors	104.5	826	0.1	Diesel	8.5	0.43
SF - Central - 20	Concrete Vibrator, 2"	Other Construction Eq	7756.3	826	9.4	Gasoline	3	0.42
SF - Central - 20	Grove RT Crane 80T, 275hp	Crane	5935.8	826	7.2	Diesel	275	0.29
SF - Central - 20	Grove RT Crane 55T, 247 hp	Crane	2585.4	826	3.1	Diesel	247	0.29
SF - Central - 20	Manitowoc 555 150T, 250' Boom	Crane	7835.4	826	9.5	Diesel	760	0.29
SF - Central - 20	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	9031.6	826	10.9	Diesel	75	0.31
SF - Central - 20	Portable, 90 Kw, Diesel, 158HP	Welders	2585.4	826	3.1	Diesel Tier 4	158	0.45
SF - Central - 21	Air Compressor 185 cfm	Air Compressor	3900	1074	3.6	Diesel Tier 4	49	0.48
SF - Central - 22	400A Diesel Welder, Trailer Mounted	Welders	468	269	1.7	Diesel	22	0.45
SF - Central - 22	Manitowoc 555 150T, 250' Boom	Crane	468	269	1.7	Diesel	760	0.29
SF - Central - 22	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	117	269	0.4	Diesel	75	0.31
SF - Central - 23	Air Compressor 185 cfm	Air Compressor	120.5	201	0.6	Diesel Tier 4	49	0.48
SF - Central - 23	Air Compressor 375 cfm	Air Compressor	39.6	201	0.2	Diesel Tier 4	122	0.48
SF - Central - 23	Boom Truck, 12.5 Tn Boom	Crane	110.2	201	0.5	Diesel or Hybrid	100	0.29
SF - Central - 23	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	1209.4	201	6.0	Diesel	110	0.36
SF - Central - 23	CAT 14 M	Grader	25208.8	201	125.6	Diesel	274	0.41
SF - Central - 23	Cat 613 C Self Loading Scraper	Scraper	80	201	0.4	Diesel	187	0.48
SF - Central - 23	CAT 815, Roller	Roller	711.9	201	3.5	Diesel	170	0.38
SF - Central - 23	CAT 950 H Wheel Loader	Rubber Tired Loaders	1209.4	201	6.0	Diesel or Hybrid	130	0.36
SF - Central - 23	CAT 962 H Wheel Loader	Rubber Tired Loader	168.8	201	0.8	Diesel	230	0.36
SF - Central - 23	CAT 988 H Wheel Loader	Rubber Tired Loader	121.1	201	0.6	Diesel	400	0.36
SF - Central - 23	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	208.8	201	1.0	Diesel	158	0.38
SF - Central - 23	CAT D6LGPDozer w winch	Crawler Tractor	1931	201	9.6	Diesel or Hybrid	179	0.43
SF - Central - 23	CAT D8RII, Dozer w winch	Crawler Tractor	121.1	201	0.6	Diesel	310	0.43
SF - Central - 23	CAT LOADER/HOE 416 E	Rubber Tired Loaders	6329.1	201	31.5	Diesel	78	0.36
SF - Central - 23	Compactor, Plate, 22" w x 35"	Plate Compactors	644.3	201	3.2	Diesel	8.5	0.43
SF - Central - 23	Grove RT Crane 30T	Crane	120.5	201	0.6	Diesel	160	0.29
SF - Central - 23	Grove RT Crane 80T, 275hp	Crane	120.5	201	0.6	Diesel	275	0.29
SF - Central - 23	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	12220.9	201	6.1	Diesel	384	0.38
SF - Central - 23	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	120.5	201	0.6	Diesel	75	0.31
SF - Central - 23	Water Pump, 4" Diesel	Pumps	73.8	201	0.4	Diesel	10	0.74
SF - Central - 24	CAT 14 M	Grader	100	181	0.6	Diesel	274	0.41
SF - Central - 24	CAT 950 H Wheel Loader	Rubber Tired Loaders	200	181	1.1	Diesel or Hybrid	130	0.36
SF - Central - 24	CAT D3 LGP, Dozer	Crawler Tractor	200	181	1.1	Diesel or Hybrid	76	0.43
SF - Central - 24	CAT D6LGPDozer w winch	Crawler Tractor	200	181	1.1	Diesel or Hybrid	179	0.43
SF - Central - 24	Water Pump, 3" Gas, Diaphragm	Pumps	1600	181	8.9	Gasoline	10	0.74
SF - Central - 25	Boom Truck, 12.5 Tn Boom	Crane	3900	445	8.8	Diesel or Hybrid	100	0.29
SF - Central - 25	CAT 12 M	Grader	5190.3	445	11.7	Diesel	173	0.41
SF - Central - 25	CAT D3 LGP, Dozer	Crawler Tractor	20761.4	445	46.7	Diesel or Hybrid	76	0.43
SF - Central - 25	CAT D6LGPDozer w winch	Crawler Tractor	1642.8	445	3.7	Diesel or Hybrid	179	0.43
SF - Central - 25	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	279.7	445	0.6	Diesel	345	0.38
SF - Central - 25	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	21844.8	445	49.1	Diesel	384	0.38
SF - Central - 25	Water Pump, 4" Diesel	Pumps	21900	445	49.2	Diesel	10	0.74
SF - Central - 26	Air Compressor 375 cfm	Air Compressor	13550	1355	10	Diesel Tier 4	122	0.48
SF - Central - 26	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	20738.5	1355	15.3	Diesel	110	0.36
SF - Central - 26	CAT 14 M	Grader	14302.4	1355	10.6	Diesel	274	0.41
SF - Central - 26	CAT 390 MASS EXC	Excavator	10332	1355	7.6	Diesel	534	0.38
SF - Central - 26	CAT 631G Scraper, Conventional	Scraper	73091.1	1355	53.9	Diesel	515	0.48
SF - Central - 26	CAT 825, Roller	Roller	28604.8	1355	21.1	Diesel	315	0.38
SF - Central - 26	CAT D6LGPDozer w winch	Crawler Tractor	29800.4	1355	22.0	Diesel or Hybrid	179	0.43
SF - Central - 26	CAT D9R, Dozer w ripper	Crawler Tractor	18272.8	1355	13.5	Diesel	410	0.43
SF - Central - 26	Disk, Towed	Off Highway Tractor	19468.4	1355	14.4	Diesel	140	0.44
SF - Central - 26	DMM Deep Soil Mixer, 3 Shaft, 808 HP	Bore Drill Rig	13550	1355	10	Diesel	808	0.5
SF - Central - 26	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	13550	1355	10	Diesel	500	0.34
SF - Central - 26	Grove RT Crane 30T	Crane	13550	1355	10	Diesel	160	0.29
SF - Central - 26	Portable, 90 Kw, Diesel, 158HP Water Pump, 4" Diesel	Welders	1335	1355	1	Diesel Tier 4	158	0.45
SF - Central - 26		Pumps	4259.1	1355	3.1		10	0.74
SF - Central - 27	CAT 14 M	Grader	119.4	1749	0.1	Diesel	274	0.41
SF - Central - 27	Cat 613 C Self Loading Scraper	Scraper	19915.5	1749	11.4	Diesel	187	0.48
SF - Central - 27	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	119.4	1749	0.1	Diesel	158	0.38
SF - Central - 27	CAT D6LGPDozer w winch	Crawler Tractor	32095.7	1749	18.3	Diesel or Hybrid	179	0.43
SF - Central - 27	Disk, Towed	Off Highway Tractor	23282.5	1749	13.3	Diesel	140	0.44
SF - Central - 27	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	17148.8	1749	9.8	Diesel	345	0.38
SF - Central - 28	CAT 12 M	Grader	996.2	2190	0.5	Diesel	173	0.41
SF - Central - 28	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	996.2	2190	0.5	Diesel	158	0.38
SF - Central - 28	CAT LOADER/HOE 416 E	Rubber Tired Loaders	14836.9	2190	6.8	Diesel	78	0.36
SF - Central - 28	Disk, Towed	Off Highway Tractor	6535	2190	3.0	Diesel	140	0.44
SF - Central - 28	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	6535	2190	3.0	Diesel	80	0.44
SF - Central - 29	Bobcat 5630 Skid Steer Loader	Skid Loader	107.1	274	0.4	Diesel	74	0.37
SF - Central - 29	Brush Chipper, 18" Cap., Trailer Mtd. 173hp	Other Construction	67	274	0.2	Diesel	173	0.42
SF - Central - 29	CAT 14 M	Grader	3150.1	274	11.5	Diesel	274	0.41
SF - Central - 29	CAT 320D, 1.56 cy, 153 hp	Excavator	67	274	0.2	Diesel	138	0.38
SF - Central - 29	Cat 613 C Self Loading Scraper	Scraper	555.3	274	2.0	Diesel	187	0.48
SF - Central - 29	CAT 825, Roller	Roller	340.7	274	1.2	Diesel	315	0.38
SF - Central - 29	CAT 950 H Wheel Loader	Rubber Tired Loaders	53.6	274	0.2	Diesel or Hybrid	130	0.36
SF - Central - 29	CAT 962 H Wheel Loader	Rubber Tired Loader	2093.1	274	7.7	Diesel	230	0.36
SF - Central - 29	CAT 966 GII Wheel Loader	Rubber Tired Loaders	2867.8	274	10.5	Diesel	286	0.36
SF - Central - 29	CAT 980 H Wheel Loader	Rubber Tired Loader	340.7	274	1.2	Diesel	393	0.36
SF - Central - 29	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	2093.1	274	7.7	Diesel	158	0.38
SF - Central - 29	CAT D3 LGP, Dozer	Crawler Tractor	26.8	274	0.1	Diesel or Hybrid	76	0.43
SF - Central - 29	CAT D6LGPDozer w winch	Crawler Tractor	869	274	3.2	Diesel or Hybrid	179	0.43
SF - Central - 29	CAT LOADER/HOE 416 E	Rubber Tired Loaders	1868.4	274	6.8	Diesel	78	0.36
SF - Central - 29	Disk, Towed	Off Highway Tractor	507.7	274	1.9	Diesel	140	0.44
SF - Central - 29	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	334	274	1.2	Diesel	80	0.44
SF - Central - 29	Gradall, 1.50 Cy, 282 Hp	Excavator	2867.8	274	10.5	Diesel	282	0.38
SF - Central - 29	Hydro Mulcher, 18 HP	Pumps	167	274	0.6	Diesel	25	0.74
SF - Central - 29	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	819.6	274	3.0	Diesel	345	0.38
SF - Central - 29	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	2921.3	274	10.7	Diesel	384	0.38
SF - Central - 29	Light Plant, 4 lite, 1000w, Tower/Mast	Generator	67	274	0.2	Diesel	12	0.74
SF - Central - 29	Portable, 20 Kw, Diesel, 36HP	Welders	535.4	274	2.0	Diesel Tier 4	36	0.45
SF - Central - 29	Water Pump, 4" Diesel	Pumps	4488.3	274	16.4	Diesel	10	0.74
SF - Central - 29	Disk, Towed	Off Highway Tractor	507.7	274	1.9	Diesel	140	0.44

SF - Central - 30	400A Diesel Welder, Trailer Mounted	Welders	632.2	186	3.4	Diesel	22	0.45
SF - Central - 30	Air Compressor 1600 cfm	Air Compressor	38	186	0.2	Diesel Tier 4	540	0.48
SF - Central - 30	Air Compressor 375 cfm	Air Compressor	1116	186	6	Diesel Tier 4	122	0.48
SF - Central - 30	Bentonite Mix Plant/Desander	Cement & Mortar Mix	137.5	186	0.7	Diesel Tier 4	100	0.56
SF - Central - 30	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	1306.7	186	7.0	Diesel	110	0.36
SF - Central - 30	CAT 14 M	Grader	138.6	186	0.7	Diesel	274	0.41
SF - Central - 30	CAT 390 MASS EXC	Excavator	137.5	186	0.7	Diesel	534	0.38
SF - Central - 30	CAT 631G Scraper, Conventional	Scraper	808.3	186	4.4	Diesel	515	0.48
SF - Central - 30	CAT 815, Roller	Roller	618	186	3.3	Diesel	170	0.38
SF - Central - 30	CAT 950 H Wheel Loader	Rubber Tired Loaders	171.9	186	0.9	Diesel or Hybrid	130	0.36
SF - Central - 30	CAT 962 H Wheel Loader	Rubber Tired Loader	137.5	186	0.7	Diesel	230	0.36
SF - Central - 30	CAT 966 Gil Wheel Loader	Rubber Tired Loaders	137.6	186	0.7	Diesel	286	0.36
SF - Central - 30	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	171.9	186	0.9	Diesel	158	0.38
SF - Central - 30	CAT D3 LGP, Dozer	Crawler Tractor	171.9	186	0.9	Diesel or Hybrid	76	0.43
SF - Central - 30	CAT D6LGPDozer w winch	Crawler Tractor	977.7	186	5.3	Diesel or Hybrid	179	0.43
SF - Central - 30	CAT D9R, Dozer w ripper	Crawler Tractor	269.4	186	1.5	Diesel	410	0.43
SF - Central - 30	Concrete Vibrator, 2"	Other Construction Eq	290.3	186	1.6	Gasoline	3	0.42
SF - Central - 30	DMM Deep Soil Mixer, 3 Shaft, 808 HP	Bore Drill Rig	186	186	1	Diesel	808	0.5
SF - Central - 30	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	186	186	1	Diesel	500	0.34
SF - Central - 30	Gradall, 1.50 Cy, 282 Hp	Excavator	137.6	186	0.7	Diesel	282	0.38
SF - Central - 30	Grove RT Crane 30T	Crane	186	186	4	Diesel	160	0.29
SF - Central - 30	Grove RT Crane 55T, 247 hp	Crane	642.5	186	3.5	Diesel	247	0.29
SF - Central - 30	Grove RT Crane 80T, 275hp	Crane	137.5	186	0.7	Diesel	275	0.29
SF - Central - 30	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	3.9	186	0.0	Diesel	345	0.38
SF - Central - 30	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	597.3	186	3.2	Diesel	384	0.38
SF - Central - 30	Manitowoc 555 150T, 250' Boom	Crane	550	186	3.0	Diesel	760	0.29
SF - Central - 30	Manitowoc 999-275 Ton Crane	Crane	38	186	0.2	Diesel	900	0.29
SF - Central - 30	Portable, 20 Kw, Diesel, 36HP	Welders	550	186	3.0	Diesel Tier 4	36	0.45
SF - Central - 30	Portable, 90 Kw, Diesel, 158HP Vibro	Welders	100	186	<1	Diesel Tier 4	158	0.45
SF - Central - 30	Driver/Extractor V20B	Other Construction Eq	390	186	2.1	Diesel	325	0.42
SF - Central - 30	Water Pump, 4" Diesel	Pumps	32.3	186	0.2	Diesel	10	0.74
SF - Central - 30	Water Pump, 6" Diesel	Pumps	137.5	186	0.7	Diesel	13	0.74
SF - Central - 31	400A Diesel Welder, Trailer Mounted	Welders	1402.1	559	2.5	Diesel	22	0.45
SF - Central - 31	Air Compressor 1600 cfm	Air Compressor	683.4	559	1.2	Diesel Tier 4	540	0.48
SF - Central - 31	Air Compressor 185 cfm	Air Compressor	350	559	0.6	Diesel Tier 4	49	0.48
SF - Central - 31	Air Compressor 375 cfm	Air Compressor	2795	559	5	Diesel Tier 4	122	0.48
SF - Central - 31	Bentonite Mix Plant/Desander	Cement & Mortar Mix	3481.1	559	6.2	Diesel Tier 4	100	0.56
SF - Central - 31	Boom Truck, 12.5 Tn Boom	Crane	175	559	0.3	Diesel or Hybrid	100	0.29
SF - Central - 31	Manitowoc 555 150T, 250' Boom	Crane	324	559	0.6	Diesel	760	0.29
SF - Central - 31	Manitowoc 999-275 Ton Crane	Crane	603.4	559	1.1	Diesel	900	0.29
SF - Central - 31	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	7727.3	559	13.8	Diesel	110	0.36
SF - Central - 31	CAT 14 M	Grader	215.4	559	0.4	Diesel	274	0.41
SF - Central - 31	CAT 390 MASS EXC	Excavator	4091.1	559	7.3	Diesel	534	0.38
SF - Central - 31	CAT 950 H Wheel Loader	Rubber Tired Loaders	33.3	559	0.1	Diesel or Hybrid	130	0.36
SF - Central - 31	CAT 962 H Wheel Loader	Rubber Tired Loader	3481.1	559	6.2	Diesel	230	0.36
SF - Central - 31	CAT 973 Track Loader, 4.2 cy, 263hp	Skid Loader	244	559	0.4	Diesel or Hybrid	210	0.37
SF - Central - 31	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	35.3	559	0.1	Diesel	158	0.38
SF - Central - 31	CAT D6LGPDozer w winch	Crawler Tractor	3481.1	559	6.2	Diesel or Hybrid	179	0.43
SF - Central - 31	CAT D3 LGP, Dozer	Crawler Tractor	33.3	559	0.1	Diesel or Hybrid	76	0.43
SF - Central - 31	CAT D8Ril, Dozer w winch	Crawler Tractor	410.8	559	0.7	Diesel	310	0.43
SF - Central - 31	Concrete Vibrator, 2"	Other Construction Eq	4622.9	559	8.3	Gasoline	3	0.42
SF - Central - 31	DMM Deep Soil Mixer, 3 Shaft, 808 HP	Bore Drill Rig	2795	559	5	Diesel	808	0.5
SF - Central - 31	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	2795	559	5	Diesel	500	0.34
SF - Central - 31	Grove RT Crane 30T	Crane	2795	559	5	Diesel	160	0.29
SF - Central - 31	Grove RT Crane 55T, 247 hp	Crane	472.5	559	0.8	Diesel	247	0.29
SF - Central - 31	Grove RT Crane 80T, 275hp	Crane	3811.3	559	6.8	Diesel	275	0.29
SF - Central - 31	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	175	559	0.3	Diesel	75	0.31
SF - Central - 31	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	815.4	559	1.5	Diesel	384	0.38
SF - Central - 31	Portable, 90 Kw, Diesel, 158HP	Welders	559	559	1	Diesel Tier 4	158	0.45
SF - Central - 31	Water Pump, 6" Diesel	Pumps	3481.1	559	6.2	Diesel	13	0.74
SF - Central - 31	Water Pump, 4" Diesel	Pumps	62.3	559	0.1	Diesel	10	0.74
SF - Central - 31	Well Drill	Bore/Drill Rigs	200	559	0.4	Diesel	136	0.5
SF - Central - 32	400A Diesel Welder, Trailer Mounted	Welders	948.9	136	7.0	Diesel	22	0.45
SF - Central - 32	Air Compressor 185 cfm	Air Compressor	500	136	3.7	Diesel Tier 4	49	0.48
SF - Central - 32	Air Compressor 375 cfm	Air Compressor	60	136	0.4	Diesel Tier 4	122	0.48
SF - Central - 32	Boom Truck, 12.5 Tn Boom	Crane	616.1	136	4.5	Diesel or Hybrid	100	0.29
SF - Central - 32	CAT IT28H, 10640 LB Tool Carrier	Rubber Tired Loaders	222.2	136	1.6	Diesel	145	0.36
SF - Central - 32	Grove RT Crane 30T	Crane	500	136	3.7	Diesel	160	0.29
SF - Central - 32	Grove RT Crane 15T, 100hp	Crane	116.1	136	0.9	Diesel	100	0.29
SF - Central - 32	Grove RT Crane 80T, 275hp	Crane	1018	136	7.5	Diesel	275	0.29
SF - Central - 32	Manitowoc 555 150T, 250' Boom	Crane	237.2	136	1.7	Diesel	760	0.29
SF - Central - 32	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	500	136	3.7	Diesel	75	0.31
SF - Central - 33	Air Compressor 375 cfm	Air Compressor	5680	256	22.2	Diesel Tier 4	122	0.48
SF - Central - 33	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	5680	256	22.2	Diesel	110	0.36
SF - Central - 33	CAT 825, Roller	Roller	324	256	1.3	Diesel	315	0.38
SF - Central - 33	CAT 980 H Wheel Loader	Rubber Tired Loader	324	256	1.3	Diesel	393	0.36
SF - Central - 33	CAT CB-634D Vibratory 84"	Rollers	324	256	1.3	Diesel	145	0.38
SF - Central - 33	CAT D8 Dozer	Crawler Tractor	324	256	1.3	Diesel	328	0.43
SF - Central - 33	CAT Forklift 5,500 LB	Aerial Lift	800	256	3.1	Diesel	63	0.31
SF - Central - 33	CAT Grader 16H	Graders	324	256	1.3	Diesel	285	0.41
SF - Central - 33	DMM Deep Soil Mixer, 3 Shaft, 808 HP	Bore Drill Rig	2560	256	10	Diesel	522	0.5
SF - Central - 33	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	5680	256	22.2	Diesel	500	0.34
SF - Central - 33	Grove RT Crane 30T	Crane	5680	256	22.2	Diesel	160	0.29
SF - Central - 33	Hydraulic 40 Ton Crane	Crane	800	256	3.1	Diesel	300	0.29
SF - Central - 33	Hydraulic 9 Ton Crane	Crane	2201	256	8.6	Diesel	85	0.29
SF - Central - 33	Portable, 90 Kw, Diesel, 158HP	Welders	515	256	2	Diesel Tier 4	158	0.45
SF - Central - 34	Air Compressor 1600 cfm	Air Compressor	666.8	366	1.8	Diesel Tier 4	540	0.48
SF - Central - 34	250 CFM Compressor Diesel	Air Compressor	152.3	366	0.4	Diesel Tier 3	75	0.74
SF - Central - 34	CAT 950 H Wheel Loader	Rubber Tired Loaders	1073.3	366	2.9	Diesel or Hybrid	130	0.36
SF - Central - 34	CAT CB-634D Vibratory 84"	Rollers	3090	366	8.4	Diesel	145	0.38
SF - Central - 34	CAT D8 Dozer	Crawler Tractor	3090	366	8.4	Diesel	328	0.43
SF - Central - 34	CAT Forklift 5,500 LB	Aerial Lift	16.7	366	0.0	Diesel	63	0.31
SF - Central - 34	CAT Grader 16H	Graders	3090	366	8.4	Diesel	285	0.41
SF - Central - 34	CAT Hyd Excavator 1CY	Excavator	828.7	366	2.3	Diesel	138	0.38
SF - Central - 34	Hydraulic 40 Ton Crane	Crane	317.8	366	0.9	Diesel	300	0.29
SF - Central - 34	Hydraulic 9 Ton Crane	Crane	16.7	366	0.0	Diesel	85	0.29
SF - Central - 34	Hydraulic 55 Ton Crane	Crane	1333.6	366	3.6	Diesel	350	0.29
SF - Central - 34	Manitowoc 777 200 Ton Crane	Crane	2505.9	366	6.9	Diesel	760	0.29
SF - Central - 34	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	666.8	366	2	Diesel	8	0.56

SF - Central - 34	Slurry Wall Techniwell	Pumps	666.8	366	2	Diesel	500	0.74
SF - Central - 35	150 KW Diesel Generator	Generator	104.3	88	1.2	Diesel Tier 4	183	0.74
SF - Central - 35	Air Compressor 1600 cfm	Air Compressor	133.3	88	1.5	Diesel Tier 4	540	0.48
SF - Central - 35	250 CFM Compressor Diesel	Air Compressor	1613.9	88	18.4	Diesel Tier 3	75	0.74
SF - Central - 35	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	295	88	3.4	Diesel Tier 4	210	0.38
SF - Central - 35	Water Pump, 6" Diesel	Pumps	417.4	88	4.8	Diesel	13	0.74
SF - Central - 35	Hydraulic 40 Ton Crane	Crane	654.3	88	7.4	Diesel	300	0.29
SF - Central - 35	Manitowoc 777 200 Ton Crane	Crane	963	88	11.0	Diesel	760	0.29
SF - Central - 35	Manitowoc 999-275 Ton Crane	Crane	410.7	88	4.7	Diesel	900	0.29
SF - Central - 35	Telescope RT Forklift 5500	Forklift	133.3	88	1.5	Diesel	63	0.2
SF - Central - 35	Truck Crane Lattice Boom 90T	Crane	133.3	88	1.5	Diesel Tier 4	300	0.29
SF - Central - 36	250 CFM Compressor Diesel	Air Compressor	4253.2	362	11.8	Diesel Tier 3	75	0.74
SF - Central - 36	CAT 988 H Wheel Loader	Rubber Tired Loader	1916.7	362	5.3	Diesel	400	0.36
SF - Central - 36	CAT D8 Dozer	Crawler Tractor	1916.7	362	5.3	Diesel	328	0.43
SF - Central - 36	CAT Forklift 5,500 LB	Aerial Lift	2158.3	362	6.0	Diesel	63	0.31
SF - Central - 36	Hydraulic 40 Ton Crane	Crane	2491.7	362	6.9	Diesel	300	0.29
SF - Central - 36	Hydraulic 9 Ton Crane	Crane	2158.3	362	6.0	Diesel	85	0.29
SF - Central - 37	Air Compressor 1600 cfm	Air Compressor	83.3	30	2.8	Diesel Tier 4	540	0.48
SF - Central - 37	Hydraulic 40 Ton Crane	Crane	83.3	30	2.8	Diesel	300	0.29
SF - Central - 37	Hydraulic 55 Ton Crane	Crane	595.8	30	19.9	Diesel	350	0.29
SF - Central - 37	Manitowoc 777 200 Ton Crane	Crane	595.8	30	19.9	Diesel	760	0.29
SF - Central - 37	Telescope RT Forklift 5500	Forklift	353.3	30	11.8	Diesel	63	0.2
SF - Central - 37	Truck Crane Lattice Boom 90T	Crane	83.3	30	2.8	Diesel Tier 4	300	0.29
SF - Central - 38	150 KW Diesel Generator	Generator	104.3	990	0.1	Diesel Tier 4	183	0.74
SF - Central - 38	Air Compressor 1600 cfm	Air Compressor	666.8	990	0.7	Diesel Tier 4	540	0.48
SF - Central - 38	250 CFM Compressor Diesel	Air Compressor	7324.8	990	7.4	Diesel Tier 3	75	0.74
SF - Central - 38	Air Compressor 375 cfm	Air Compressor	2133	990	2.2	Diesel Tier 4	122	0.48
SF - Central - 38	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	2133	990	2.2	Diesel	110	0.36
SF - Central - 38	CAT 950 H Wheel Loader	Rubber Tired Loaders	1073.3	990	1.1	Diesel or Hybrid	130	0.36
SF - Central - 38	CAT CB-634D Vibratory 84"	Rollers	3090	990	3.1	Diesel	145	0.38
SF - Central - 38	CAT D8 Dozer	Crawler Tractor	3090	990	3.1	Diesel	328	0.43
SF - Central - 38	CAT Forklift 5,500 LB	Aerial Lift	16.7	990	0.0	Diesel	63	0.31
SF - Central - 38	CAT Grader 16H	Graders	3090	990	3.1	Diesel	285	0.41
SF - Central - 38	CAT Hyd Excavator 1CY	Excavator	423.2	990	0.4	Diesel	138	0.38
SF - Central - 38	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	1333.6	990	1.3	Diesel Tier 4	210	0.38
SF - Central - 38	Water Pump, 6" Diesel	Pumps	417.4	990	0.4	Diesel	13	0.74
SF - Central - 38	DMM Deep Soil Mixer,	Bore Drill Rig	2133	990	2.2	Diesel	533	0.5
SF - Central - 38	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	2133	990	2.2	Diesel	500	0.34
SF - Central - 38	Grove RT Crane 30T	Crane	2133	990	2.2	Diesel	160	0.29
SF - Central - 38	Hydraulic 40 Ton Crane	Crane	317.8	990	0.3	Diesel	300	0.29
SF - Central - 38	Hydraulic 9 Ton Crane	Crane	121	990	0.1	Diesel	85	0.29
SF - Central - 38	Hydraulic 55 Ton Crane	Crane	1333.6	990	1.3	Diesel	350	0.29
SF - Central - 38	CAT Hyd Excavator 1CY	Excavator	396.5	990	0.4	Diesel	138	0.38
SF - Central - 38	Manitowoc 777 200 Ton Crane	Crane	1839.2	990	1.9	Diesel	760	0.29
SF - Central - 38	Manitowoc 200 Ton Crane	Crane	666.8	990	0.7	Diesel	760	0.29
SF - Central - 38	Portable, 90 Kw, Diesel, 158HP	Welders	400	990	<1	Diesel Tier 4	158	0.45
SF - Central - 38	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	666.8	990	1	Diesel	8	0.56
SF - Central - 38	Slurry Wall Techniwell	Pumps	666.8	990	1	Diesel	500	0.74
SF - Central - 39	Air Compressor 1600 cfm	Air Compressor	133.3	292	0.5	Diesel Tier 4	540	0.48
SF - Central - 39	250 CFM Compressor Diesel	Air Compressor	1613.9	292	5.5	Diesel Tier 3	75	0.74
SF - Central - 39	Telescope RT Forklift 5500	Forklift	133.3	292	0.5	Diesel	63	0.2
SF - Central - 39	Truck Crane Lattice Boom 90T	Crane	133.3	292	<1	Diesel Tier 4	300	0.29
SF - Central - 39	Hydraulic 40 Ton Crane	Crane	550	292	1.9	Diesel	300	0.29
SF - Central - 39	Manitowoc 777 200 Ton Crane	Crane	963	292	3.3	Diesel	760	0.29
SF - Central - 39	999-275 Ton Crane	Crane	410.7	292	1.4	Diesel	900	0.29
SF - Central - 40	250 CFM Compressor Diesel	Air Compressor	4262.8	392	10.9	Diesel Tier 3	75	0.74
SF - Central - 40	CAT 988 H Wheel Loader	Rubber Tired Loader	1920.8	392	4.9	Diesel	400	0.36
SF - Central - 40	CAT D8 Dozer	Crawler Tractor	1920.8	392	4.9	Diesel	328	0.43
SF - Central - 40	CAT Forklift 5,500 LB	Aerial Lift	2086.7	392	5.3	Diesel	63	0.31
SF - Central - 40	Hydraulic 40 Ton Crane	Crane	2420	392	6.2	Diesel	300	0.29
SF - Central - 40	Hydraulic 9 Ton Crane	Crane	2086.7	392	5.3	Diesel	85	0.29
SF - Central - 41	Air Compressor 1600 cfm	Air Compressor	83.3	36	2.3	Diesel Tier 4	540	0.48
SF - Central - 41	Hydraulic 40 Ton Crane	Crane	83.3	36	2.3	Diesel	300	0.29
SF - Central - 41	Hydraulic 55 Ton Crane	Crane	679.2	36	19.0	Diesel	350	0.29
SF - Central - 41	Manitowoc 777 200 Ton Crane	Crane	595.3	36	16.7	Diesel	760	0.29
SF - Central - 41	RT Forklift 5500	Forklift	353.3	36	9.9	Diesel	63	0.2
SF - Central - 41	Truck Crane Lattice Boom 90T	Crane	83.3	36	2.3	Diesel Tier 4	300	0.29
SF - Central - 42	Air Compressor 375 cfm	Air Compressor	3547	1820	1.9	Diesel Tier 4	122	0.48
SF - Central - 42	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	3547	1820	1.9	Diesel	110	0.36
SF - Central - 42	CAT 825, Roller	Roller	202	1820	0.1	Diesel	315	0.38
SF - Central - 42	CAT 980 H Wheel Loader	Rubber Tired Loader	202	1820	0.1	Diesel	393	0.36
SF - Central - 42	CAT CB-634D Vibratory 84"	Rollers	3694	1820	2.0	Diesel	145	0.38
SF - Central - 42	CAT D8 Dozer	Crawler Tractor	3694	1820	2.0	Diesel	328	0.43
SF - Central - 42	CAT Forklift 5,500 LB	Aerial Lift	400	1820	0.2	Diesel	63	0.31
SF - Central - 42	CAT Grader 16H	Graders	3694	1820	2.0	Diesel	285	0.41
SF - Central - 42	DMM Deep Soil Mixer,	Bore Drill Rig	3547	1820	1.9	Diesel	522	0.5
SF - Central - 42	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	3547	1820	1.9	Diesel	500	0.34
SF - Central - 42	Grove RT Crane 30T	Crane	3547	1820	1.9	Diesel	160	0.29
SF - Central - 42	Hydraulic 40 Ton Crane	Crane	400	1820	0.2	Diesel	300	0.29
SF - Central - 42	Hydraulic 9 Ton Crane	Crane	463	1820	0.3	Diesel	85	0.29
SF - Central - 42	Portable, 90 Kw, Diesel, 158HP	Welders	400	1820	<1	Diesel Tier 4	158	0.74
SF - Central - 43	150 KW Diesel Generator	Generator	104.3	239	0.4	Diesel Tier 4	183	0.74
SF - Central - 43	Air Compressor 1600 cfm	Air Compressor	666.8	239	2.8	Diesel Tier 4	540	0.48
SF - Central - 43	250 CFM Compressor Diesel	Air Compressor	152.3	239	0.6	Diesel Tier 3	75	0.74
SF - Central - 43	CAT 825, Roller	Roller	128.1	239	0.5	Diesel	315	0.38
SF - Central - 43	CAT 950 H Wheel Loader	Rubber Tired Loaders	1073.3	239	4.5	Diesel or Hybrid	130	0.36
SF - Central - 43	CAT 980 H Wheel Loader	Rubber Tired Loader	128.1	239	0.5	Diesel	393	0.36
SF - Central - 43	CAT CB-634D Vibratory 84"	Rollers	128.1	239	0.5	Diesel	145	0.38
SF - Central - 43	CAT D8 Dozer	Crawler Tractor	128.1	239	0.5	Diesel	328	0.43
SF - Central - 43	CAT Forklift 5,500 LB	Aerial Lift	16.7	239	0.1	Diesel	63	0.31
SF - Central - 43	CAT Grader 16H	Graders	128.1	239	0.5	Diesel	285	0.41
SF - Central - 43	CAT Hyd Excavator 1CY	Excavator	423.2	239	1.8	Diesel	138	0.38
SF - Central - 43	Water Pump, 6" Diesel	Pumps	417.4	239	1.7	Diesel	13	0.74
SF - Central - 43	Hydraulic 40 Ton Crane	Crane	317.8	239	1.3	Diesel	300	0.29

SF - Central - 43	Hydraulic 9 Ton Crane	Crane	670.3	239	2.8	Diesel	85	0.29
SF - Central - 43	Hydraulic 55 Ton Crane	Crane	1253.2	239	5.3	Diesel	350	0.29
SF - Central - 43	CAT Hyd Excavator 1CY	Excavator	396.5	239	1.7	Diesel	138	0.38
SF - Central - 43	Manitowoc 200 Ton Crane	Crane	586.4	239	2.5	Diesel	760	0.29
SF - Central - 43	Manitowoc 777 200 Ton Crane	Crane	1643.4	239	6.9	Diesel	760	0.29
SF - Central - 43	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	666.8	239	3	Diesel	8	0.56
SF - Central - 43	Slurry Wall Techniwell	Pumps	666.8	239	3	Diesel	500	0.74
SF - Central - 44	250 CFM Compressor Diesel	Air Compressor	1007.9	91	11.0	Diesel Tier 3	75	0.74
SF - Central - 44	Manitowoc 777 200 Ton Crane	Crane	865	91	9.5	Diesel	760	0.29
SF - Central - 44	Manitowoc 999-275 Ton Crane	Crane	319.4	91	3.5	Diesel	900	0.29
SF - Central - 45	CAT 631G Scraper, Conventional	Scraper	73.4	165	0.4	Diesel	515	0.48
SF - Central - 45	CAT 980 H Wheel Loader	Rubber Tired Loader	1334.6	165	8.1	Diesel	393	0.36
SF - Central - 45	CAT CB-634D Vibratory 84"	Rollers	3033	165	18.4	Diesel	145	0.38
SF - Central - 45	CAT D8 Dozer	Crawler Tractor	4404.3	165	26.7	Diesel	328	0.43
SF - Central - 45	CAT Grader 16H	Graders	4367.6	165	26.5	Diesel	285	0.41
SF - Central - 46	150 KW Diesel Generator	Generator	104.3	443	0	Diesel Tier 4	183	0.74
SF - Central - 46	Air Compressor 1600 cfm	Air Compressor	666.8	443	1.5	Diesel Tier 4	540	0.48
SF - Central - 46	250 CFM Compressor Diesel	Air Compressor	152.3	443	0.3	Diesel Tier 3	75	0.74
SF - Central - 46	CAT 950 H Wheel Loader	Rubber Tired Loaders	1073.3	443	2.4	Diesel or Hybrid	130	0.36
SF - Central - 46	CAT CB-634D Vibratory 84"	Rollers	3585.6	443	8.1	Diesel	145	0.38
SF - Central - 46	CAT D8 Dozer	Crawler Tractor	3585.6	443	8.1	Diesel	328	0.43
SF - Central - 46	CAT Forklift 5,500 LB	Aerial Lift	100.2	443	0.2	Diesel	63	0.31
SF - Central - 46	CAT Grader 16H	Graders	3585.6	443	8.1	Diesel	285	0.41
SF - Central - 46	CAT Hyd Excavator 1CY	Excavator	423.2	443	1.0	Diesel	138	0.38
SF - Central - 46	Water Pump, 6" Diesel	Pumps	417.4	443	0.9	Diesel	13	0.74
SF - Central - 46	Hydraulic 40 Ton Crane	Crane	401.3	443	0.9	Diesel	300	0.29
SF - Central - 46	Hydraulic 9 Ton Crane	Crane	204.5	443	0.5	Diesel	85	0.29
SF - Central - 46	Hydraulic 55 Ton Crane	Crane	1253.2	443	2.8	Diesel	350	0.29
SF - Central - 46	CAT Hyd Excavator 1CY	Excavator	296.5	443	0.7	Diesel	138	0.38
SF - Central - 46	Manitowoc 777 200 Ton Crane	Crane	1610.1	443	3.6	Diesel	760	0.29
SF - Central - 46	Manitowoc 200 Ton Crane	Crane	586.4	443	1.3	Diesel	760	0.29
SF - Central - 46	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	666.8	443	2	Diesel	8	0.56
SF - Central - 46	Slurry Wall Techniwell	Pumps	666.8	443	2	Diesel	500	0.74
SF - Central - 47	Air Compressor 1600 cfm	Air Compressor	133.3	59	2.2	Diesel Tier 4	540	0.48
SF - Central - 47	250 CFM Compressor Diesel	Air Compressor	1007.9	59	17.0	Diesel Tier 3	75	0.74
SF - Central - 47	Hydraulic 40 Ton Crane	Crane	133.3	59	2.2	Diesel	300	0.29
SF - Central - 47	Manitowoc 777 200 Ton Crane	Crane	865	59	14.6	Diesel	760	0.29
SF - Central - 47	Manitowoc 999-275 Ton Crane	Crane	159.7	59	2.7	Diesel	900	0.29
SF - Central - 47	Telescope RT Forklift 5500	Forklift	133.3	59	2.2	Diesel	63	0.2
SF - Central - 47	Truck Crane Lattice Boom 90T	Crane	133.3	59	2.2	Diesel Tier 4	300	0.29
SF - Central - 48	250 CFM Compressor Diesel	Air Compressor	19405.8	1458	13.3	Diesel Tier 3	75	0.74
SF - Central - 48	CAT 988 H Wheel Loader	Rubber Tired Loader	5833.3	1458	4.0	Diesel	400	0.36
SF - Central - 48	CAT D8 Dozer	Crawler Tractor	5833.3	1458	4.0	Diesel	328	0.43
SF - Central - 48	CAT Forklift 5,500 LB	Aerial Lift	9475	1458	6.5	Diesel	63	0.31
SF - Central - 48	Hydraulic 40 Ton Crane	Crane	10225	1458	7.0	Diesel	300	0.29
SF - Central - 48	Hydraulic 9 Ton Crane	Crane	9475	1458	6.5	Diesel	85	0.29
SF - Central - 48	Manitowoc 777 200 Ton Crane	Crane	333.3	1458	0.2	Diesel	760	0.29
SF - Central - 49	Air Compressor 1600 cfm	Air Compressor	83.3	70	1.2	Diesel Tier 4	540	0.48
SF - Central - 49	CAT Forklift 5,500 LB	Aerial Lift	83.5	70	1.2	Diesel	63	0.31
SF - Central - 49	Hydraulic 9 Ton Crane	Crane	83.5	70	1.2	Diesel	85	0.29
SF - Central - 49	Hydraulic 40 Ton Crane	Crane	166.8	70	2.4	Diesel	300	0.29
SF - Central - 49	Hydraulic 55 Ton Crane	Crane	929.2	70	13.3	Diesel	350	0.29
SF - Central - 49	Manitowoc 777 200 Ton Crane	Crane	595.8	70	8.5	Diesel	760	0.29
SF - Central - 49	Telescope RT Forklift 5500	Forklift	875	70	12.5	Diesel	63	0.2
SF - Central - 49	Truck Crane Lattice Boom 90T	Crane	83.3	70	1.2	Diesel Tier 4	300	0.29
SF - Central - 50	400A Diesel Welder, Trailer Mounted	Welders	468	40	11.7	Diesel	22	0.45
SF - Central - 50	Air Compressor 1600 cfm	Air Compressor	234	40	5.9	Diesel Tier 4	540	0.48
SF - Central - 50	Boom Truck, 12.5 Tn Boom	Crane	234	40	5.9	Diesel or Hybrid	100	0.29
SF - Central - 50	Grove RT Crane 80T, 275hp	Crane	468	40	11.7	Diesel	275	0.29
SF - Central - 50	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	234	40	5.9	Diesel	75	0.31
SF - Central - 51	Air Compressor 1600 cfm	Air Compressor	400	39	10.2	Diesel Tier 4	540	0.48
SF - Central - 51	Boom Truck, 12.5 Tn Boom	Crane	200	39	5.1	Diesel or Hybrid	100	0.29
SF - Central - 51	Grove RT Crane 80T, 275hp	Crane	400	39	10.2	Diesel	275	0.29
SF - Central - 51	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	200	39	5.1	Diesel	75	0.31
SF - Central - 52	400A Diesel Welder, Trailer Mounted	Welders	3938.9	2409	1.6	Diesel	22	0.45
SF - Central - 52	Bobcat 5630 Skid Steer Loader	Skid Loader	19694.6	2409	8.2	Diesel	74	0.37
SF - Central - 52	CAT 962 H Wheel Loader	Rubber Tired Loader	39879	2409	16.6	Diesel	230	0.36
SF - Central - 52	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	10100.2	2409	4.2	Diesel Tier 4	210	0.38
SF - Central - 52	Portable, 300 Kw, Diesel, 36HP	Welders	39389.3	2409	16.4	Diesel Tier 4	400	0.45
SF - Central - 53	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	101	11	9	Diesel or Hybrid	224	0.42
SF - Central - 53	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	101	11	9	Diesel or Hybrid	137	0.38
SF - Central - 53	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	101	11	9	Diesel or Hybrid	133	0.38
SF - Central - 53	CAT LOADER/HOE 416 E	Rubber Tired Loaders	101	11	9.4	Diesel	78	0.36
SF - Central - 54	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	101	10	10	Diesel or Hybrid	224	0.42
SF - Central - 54	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	101	10	10	Diesel or Hybrid	137	0.38
SF - Central - 54	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	101	10	10	Diesel or Hybrid	133	0.38
SF - Central - 54	CAT LOADER/HOE 416 E	Rubber Tired Loaders	101	10	10.1	Diesel	78	0.36
SF - Central - 55	CAT 12 M	Grader	210	210	1.0	Diesel	173	0.41
SF - Central - 55	CAT 390 MASS EXC	Excavator	200	210	1.0	Diesel	534	0.38
SF - Central - 55	CAT D8Ril, Dozer w winch	Crawler Tractor	2000	210	9.5	Diesel	310	0.43
SF - Central - 55	CAT 631G Scraper, Conventional	Scraper	2000	210	9.5	Diesel	515	0.48
SF - Central - 55	Disk, Towed	Off Highway Tractor	320	210	1.5	Diesel	140	0.44
SF - Central - 55	CAT 966 Gil Wheel Loader	Rubber Tired Loaders	40	210	0.2	Diesel	286	0.36
SF - Central - 55	CAT D9R, Dozer w ripper	Crawler Tractor	1180	210	5.6	Diesel	410	0.43
SF - Central - 55	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	1240	210	5.9	Diesel	80	0.44
SF - Central - 55	Hydro Mulcher, 18 HP	Pumps	120	210	0.6	Diesel	25	0.74
SF - Central - 55	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	1000	210	4.8	Diesel	345	0.38

**Offroad Equipment (Electric) Inventory for Southern Complex on Byron Tract - Central
Option 9**

Electricity for TBM Operations included in the Summary Workbook

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
SF - Central - 1	400A, Electric Welder	8.9	207	15	0.644
SF - Central - 2	400A, Electric Welder	44.4	323	15	2.063
SF - Central - 6	400A, Electric Welder	925.4	759.3	15	18.281
SF - Central - 6	Water Pump, 4" Electrical, Submersible	18509.4	15187.2	1	1.219
SF - Central - 7	400A, Electric Welder	3385.2	260	15	195.300
SF - Central - 9	400A, Electric Welder	1170	245	15	71.633
SF - Central - 9	Water Pump, 4" Electrical, Submersible	702	245	1	2.865
SF - Central - 10	Water Pump, 4" Electrical, Submersible	57	91	1	0.628
SF - Central - 11	400A, Electric Welder	1084.7	315	15	51.652
SF - Central - 12	400A, Electric Welder	20859	799	15	391.806
SF - Central - 12	Water Pump, 4" Electrical, Submersible	9547.6	799	1	11.956
SF - Central - 12	Light Plant, 4 lite, 1000w	187.3	799		
SF - Central - 13	400A, Electric Welder	5519.4	964	15	85.921
SF - Central - 13	Water Pump, 4" Electrical, Submersible	4713.4	964	1	4.892
SF - Central - 14	Water Pump, 4" Electrical, Submersible	7384.1	706	1	10.463
SF - Central - 14	Light Plant, 4 lite, 1000w	421.2	706		
SF - Central - 15B	400A, Electric Welder	93.6	400	15	3.510
SF - Central - 15B	Water Pump, 4" Electrical, Submersible	4199.5	400	1	10.499
SF - Central - 16	400A, Electric Welder	1341.6	179	15	112.694
SF - Central - 16	Water Pump, 4" Electrical, Submersible	704.6	179	1	3.946
SF - Central - 17	400A, Electric Welder	1501.5	37	15	606.375
SF - Central - 17	Water Pump, 4" Electrical, Submersible	189.4	37	1	5.099
SF - Central - 18	400A, Electric Welder	0.2	34	15	0.089
SF - Central - 18	Water Pump, 4" Electrical, Submersible	103.3	34	1	3.077
SF - Central - 19	400A, Electric Welder	2679.3	383	15	104.973
SF - Central - 19	Water Pump, 4" Electrical, Submersible	1890.6	383	1	4.938
SF - Central - 20	400A, Electric Welder	7090.6	826	15	128.697
SF - Central - 20	Water Pump, 4" Electrical, Submersible	5170.9	826	1	6.257
SF - Central - 21	400A, Electric Welder	3900	1074	15	54.491
SF - Central - 23	400A, Electric Welder	120.5	201	15	9.005
SF - Central - 26	Water Pump, 4" Electrical, Submersible	20738.5	1355	1	15.305
SF - Central - 26	Light Plant, 4 lite, 1000w	124751	1355		
SF - Central - 29	Water Pump, 6" Electrical, Submersible	535.4	274	1	1.957
SF - Central - 30	Water Pump, 4" Electrical, Submersible	1173	186	1	6.316
SF - Central - 30	Water Pump, 6" Electrical, Submersible	38	186	1	0.205
Sf - Central - 30	Light Plant, 4 lite, 1000w	1077.7	186		
SF - Central - 31	400A, Electric Welder	350	559	15	9.399
SF - Central - 31	Water Pump, 4" Electrical, Submersible	21569.1	559	1	38.615
SF - Central - 31	Water Pump, 6" Electrical, Submersible	506.6	559	1	0.907
SF - Central - 32	400A, Electric Welder	500	136	15	55.263
SF - Central - 33	Water Pump, 4" Electrical, Submersible	5680	256	1	22.212
SF - Central - 35	Gantry Crane	416.7	88	0.25	1
SF - Central - 36	Axial Fan 114,000 CFM	15387.5	362	50	2,127
SF - Central - 36	Gantry Crane	7641.7	362	0.25	5
SF - Central - 38	Water Pump, 4" Electrical, Submersible	2133	990	1	2.155

SF - Central - 39	Gantry Crane	416.7	292	0.25	0
SF - Central - 39	Concrete Pump Truck, 117 cy/hr	384	292		
SF - Central - 40	Axial Fan 114,000 CFM	15409.2	392	50	1,967
SF - Central - 40		7650.8	392	0.25	5
	Gantry Crane				
SF - Central - 41	Gantry Crane	197.5	36	0.25	1
SF - Central - 42	Water Pump, 4" Electrical, Submersible	3547	1820	1	1.949
SF - Central - 43	Water Pump, 4" Electrical, Submersible	417.4	239	1	1.750
SF - Central - 43	Concrete Pump Truck, 117 cy/hr	338.3	91		
SF - Central - 48	Axial Fan 114,000 CFM	132825	1458	50	4,555
SF - Central - 48	Gantry Crane	39813.3	1458	0.25	7
	Gantry Crane				
SF - Central - 49	Gantry Crane	458.3	70	0.25	2
SF - Central - 50	400A, Electric Welder	468	40	15	175.500
SF - Central - 51	400A, Electric Welder	400	39	15	152.727

Vehicle Inventory for Southern Complex on Byron Tract - Central

Option 9

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs.)	# day	Vehicle Hours	Hours/Trip	# of Vehicles/Trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/hr)
Vehicle Use on Paved Roads --- and Not on Construction Site												
SF - Central - 1	Pickup 1/2T 2 WD	Materials from Stockton	207	3208.9	1.1	3008	14.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 1	Pickup, 3/4T, 4wd	Materials from Stockton	207	3200.0	1.1	3000	14.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 1	Truck Flatbed 4 T Highway	Materials from Stockton	207	799.7	1.1	750	3.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 1	Truck Flatbed 4 T Highway	Two Cranes and one lift from Stockton	1	3.2	1.1	3	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 2	Pickup 1/2T 2 WD	Materials from Stockton	323	16044.4	1.1	15042	46.6	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 2	Pickup, 3/4T, 4wd	Materials from Stockton	323	16000.0	1.1	15000	46.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 2	Truck Flatbed 4 T Highway	Materials from Stockton	323	4000.3	1.1	3750	11.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 3	Pickup 1/2T 2 WD	Materials from Stockton	253	2480.0	1.1	2325	9.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 3	Pickup, 3/4T, 4wd	Materials from Stockton	253	620.2	1.1	581	2.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 3	Truck End Dump/ 10-13cy Hwy	Materials from Stockton	253	378.7	1.1	355	1.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 3	Truck Flatbed 4 T Highway	Cone, Two Rollers, two Loaders, Tractor, Grader, and Excavator	1	8.5	1.1	8	8.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 4	Pickup 1/2T 2 WD	Materials from Stockton	227	1761.3	1.1	1651	7.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 4	Pickup, 3/4T, 4wd	Materials from Stockton	227	545.3	1.1	511	2.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 4	Truck End Dump/ 10-13cy Hwy	Materials from Stockton	227	407.3	1.1	382	1.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 4	Truck Flatbed 4 T Highway	Materials from Stockton	227	1424.2	1.1	1335	5.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 4	Truck, Flatbed, 10T, Hwy	Materials from Stockton	227	30.4	1.1	29	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 4	Truck Flatbed 4 T Highway	Materials from Stockton	227	1929.6	1.1	1809	8.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 4	Truck End Dump/ 16-20cy Hwy	Base Rock, Asphalt, and Gravel from Vernalis	227	20193.6	0.7	28848	127	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Central - 4	Truck & Bottom Dump/ 21cy 10T	Asphalt, Hot Mix Delivered from Vernalis	227	1399.7	0.7	1998	8.8	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel Tier 4	
SF - Central - 4	Truck Flatbed 4 T Highway	Asphalt Paver and 2 Rollers from and to Stockton	2	6.4	1.1	6	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 4	Truck Flatbed 4 T Highway	One Roller and one Crane from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 5	Pickup 1/2T 2 WD	Materials from Stockton	21	187.2	1.1	176	8.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 5	Pickup, 3/4T, 4wd	Materials from Stockton	21	121.8	1.1	114	5.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 5	Truck End Dump/ 10-13cy Hwy	Materials from Stockton	21	374.4	1.1	351	16.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 5	Truck Flatbed 4 T Highway	Materials from Stockton	21	1261.9	1.1	1183	55.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 5	Truck Flatbed 4 T Highway	Two Loaders and Tractor from Stockton	1	3.2	1.1	3	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 6	Mechanics Truck	Materials from Stockton	184	18509.4	1.1	17353	95	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 6	Pickup 1/2T 2 WD	Materials from Stockton	184	19434.8	1.1	18220	99.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 6	Truck Flatbed 4 T Highway	Materials from Stockton	184	18509.4	1.1	17353	94.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 6	Truck End Dump/ 16-20cy Hwy	Gravel and Base rock from Vernalis	184	1133.3	0.7	1619	9	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Central - 6	Truck Flatbed 4 T Highway	Materials from Stockton	184	134.4	1.1	126	0.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 6	Truck Flatbed 4 T Highway	One Loader from Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 7	Pickup 1/2T 2 WD	Materials from Stockton	260	3478.8	1.1	3261	12.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 7	Truck End Dump/ 10-13cy Hwy	Materials from Stockton	260	234.0	1.1	219	0.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 7	Truck Flatbed 4 T Highway	Materials from Stockton	260	18252.0	1.1	17111	65.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 8	Truck Flatbed 4 T Highway	Materials from Stockton	1451	12168.0	1.1	11408	7.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 8	Truck Flatbed 10 T Highway	Materials from Stockton	1451	8382.1	1.1	7858	5.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 8	Truck Flatbed 4 T Highway	Two Cranes from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 9	Pickup 1/2T 2 WD	Materials from Stockton	245	1870.0	1.1	1753	7.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 9	Pickup, 3/4T, 4wd	Materials from Stockton	245	97.5	1.1	91	0.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 9	Truck End Dump/ 10-13cy Hwy	Materials from Stockton	245	156.0	1.1	146	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 9	Truck Flatbed 4 T Highway	Materials from Stockton	245	312.0	1.1	293	1.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 9	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	245	46.8	1.1	44	0.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 9	Truck Flatbed 4 T Highway	Materials from Stockton	245	1043.2	1.1	978	4.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 9	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	245	8.5	0.6	15	0.1	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel	
SF - Central - 9	Truck End Dump/ 16-20cy Hwy	Gravel and Base Rock from Vernalis	245	170.8	0.7	244	1	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Central - 9	Truck Flatbed 4 T Highway	Loader and Crane from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 10	Truck, Flatbed, 10T, Hwy	Materials from Stockton	91	95.1	1.1	89	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 10	Pickup, 3/4T, 4wd	Materials from Stockton	91	86.8	1.1	81	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 11	Mechanics Truck	Materials from Stockton	315	10018.6	1.1	9392	30	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 11	Pickup 1/2T 2 WD	Materials from Stockton	315	9753.9	1.1	9144	29.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 11	Pickup, 3/4T, 4wd	Materials from Stockton	315	244.3	1.1	229	0.7	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 11	Truck Flatbed 4 T Highway	Materials from Stockton	315	10018.6	1.1	9392	29.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 12	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	799	10782.1	1.1	10108	12.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 12	Pickup 1/2T 2 WD	Materials from Stockton	799	11106.8	1.1	12288	15.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 12	Truck Flatbed 4 T Highway	Materials from Stockton	799	749.9	1.1	703	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 12	Truck, Flatbed, 10T, Hwy	Rebar and Steel from Livermore	799	151.9	0.6	268	0.3	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel	
SF - Central - 12	Truck End Dump/ 16-20cy Hwy	Gravel and Base Rock from Vernalis	799	379.4	0.7	542	1	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Central - 12	Truck Flatbed 4 T Highway	Cone, Two Excavators, and Tractor from Stockton	1	4.3	1.1	4	4.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 13	Pickup 1/2T 2 WD	Materials from Stockton	964	6040.1	1.1	5663	5.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 13	Pickup, 3/4T, 4wd	Materials from Stockton	964	40.1	1.1	38	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 13	Truck Flatbed 4 T Highway	Materials from Stockton	964	3422.0	1.1	3208	3.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 13	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	964	1989.2	1.1	1865	1.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 13	Truck Flatbed 4 T Highway	Crane from Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 13	Truck Flatbed 4 T Highway	Materials from Stockton	964	621.9	1.1	583	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 13	Truck, Flatbed, 10T, Hwy	Rebar and Steel from Livermore	964	170.6	0.6	301	0.3	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel	
SF - Central - 14	Pickup 1/2T 2 WD	Materials from Stockton	706	2802.5	1.1	2627	3.7	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 14	Truck Flatbed 4 T Highway	Materials from Stockton	706	239.4	1.1	224	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 15A	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	264	1825.2	1.1	1711	6.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 15B	Pickup 1/2T 2 WD	Materials from Stockton	400	398.9	1.1	374	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 15B	Pickup, 3/4T, 4wd	Materials from Stockton	400	463.8	1.1	435	1.1	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	

SF - Central - 15B	Truck Flatbed 4 T Highway	Materials from Stockton	400	721.2	1.1	676	1.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 15B	Truck's End Dump/ 16-20cy/ Hwy	Materials from Stockton	400	961.1	1.1	901	2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 15B	Truck's End Dump/ 16-20cy/ Hwy	Gravel and Base Rock from Vernalis	400	949.2	0.7	1356	3	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 15B	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	400	149.6	0.6	264	0.7	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 15B	Truck Flatbed 4 T Highway	Loader from Stockton	400	1.1	1.1	1	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 16	Pickup 1/2T 2 WD	Materials from Stockton	179	1341.6	1.1	1258	7.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 16	Pickup, 3/4T, 4wd	Materials from Stockton	179	88.1	1.1	83	0.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 16	Truck's End Dump/ 16-20cy/ Hwy	Gravel and Base Rock from Vernalis	179	154.7	0.7	221	1	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 16	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	179	6.2	0.6	11	0.1	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 17	Pickup 1/2T 2 WD	Materials from Stockton	37	1505.5	1.1	1411	38.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 17	Pickup, 3/4T, 4wd	Materials from Stockton	37	13.3	1.1	12	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 17	Truck, Flatbed, 10T, Hwy	Rebar and Steel from Livermore	37	2.3	0.6	4	0.1	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 17	Truck's End Dump/ 16-20cy/ Hwy	Gravel and Base Rock from Vernalis	37	307.3	0.7	439	12	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 18	Pickup 1/2T 2 WD	Materials from Stockton	34	0.2	1.1	0	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 18	Pickup, 3/4T, 4wd	Materials from Stockton	34	29.5	1.1	28	0.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 18	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	34	1.1	0.6	2	0.1	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 19	Pickup 1/2T 2 WD	Materials from Stockton	383	4260.3	1.1	3994	10.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 19	Pickup, 3/4T, 4wd	Materials from Stockton	383	620.5	1.1	582	1.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 19	Truck's End Dump/ 16-20cy/ Hwy	Materials from Stockton	383	211.0	1.1	198	1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 19	Truck's End Dump/ 10-13cy/ Hwy	Materials from Stockton	383	228.5	1.1	214	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 19	Truck Flatbed 4 T Highway	Materials from Stockton	383	386.1	1.1	362	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 19	Truck Flatbed 10 T Highway	Materials from Stockton	383	1169.9	1.1	1369	3.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 19	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	383	140.7	1.1	132	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 19	Truck's End Dump/ 16-20cy/ Hwy	Gravel and Base Rock from Vernalis	383	56.0	0.7	80	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 19	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	383	15.9	0.6	28	0.1	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 20	Truck Flatbed 10 T Highway	Materials from Stockton	826	2271.6	1.1	2130	2.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 20	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	826	865.8	1.1	812	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 20	Truck's End Dump/ 16-20cy/ Hwy	Hydrih from Vernalis	826	30.5	0.7	44	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 20	Truck's End Dump/ 10-13cy/ Hwy	Cement, Aggregate, and Sand from Stockton	826	1393.9	1.1	1307	1.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 21	Pickup, 3/4T, 4wd	Materials from Stockton	1074	3900.0	1.1	3656	3.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 22	Pickup 1/2T 2 WD	Materials from Stockton	269	2574.0	1.1	2413	9.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 22	Truck Flatbed 4 T Highway	Materials from Stockton	269	2457.0	1.1	2303	8.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 22	Truck Flatbed 10 T Highway	Materials from Stockton	269	117.0	1.1	110	0.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 22	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	269	292.5	1.1	274	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 23	Pickup 1/2T 2 WD	Materials from Stockton	201	14561.4	1.1	13651	68.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 23	Pickup, 3/4T, 4wd	Materials from Stockton	201	208.8	1.1	196	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 23	Truck's End Dump/ 16-20cy/ Hwy	Materials from Stockton	201	12621.1	1.1	11832	59	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 23	Truck's End Dump/ 10-13cy/ Hwy	Materials from Stockton	201	302.4	1.1	284	1.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 23	Truck, Flatbed, 10T, Hwy	Materials from Stockton	201	39.6	1.1	37	0.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 23	Truck's End Dump/ 16-20cy/ Hwy	Base Rock from Vernalis	201	1579.2	0.7	2256	11	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 23	Truck Flatbed 4 T Highway	Crane, Grader, and Excavator to Stockton	1	3.2	1.1	3	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 24	Truck's End Dump/ 10-13cy/ Hwy	Materials from Stockton	181	1600.0	1.1	1500	8.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 24	Truck's End Dump/ 10-13cy/ Hwy	Base Rock from Vernalis	181	583.8	0.7	834	4.6	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 24	Truck, Flatbed, 10T, Hwy	Materials from Stockton	181	60.8	1.1	57	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 25	Pickup 1/2T 2 WD	Materials from Stockton	445	21303.1	1.1	19972	44.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 25	Pickup, 3/4T, 4wd	Materials from Stockton	445	279.7	1.1	262	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 26	Pickup 1/2T 2 WD	Materials from Stockton	1355	28604.8	1.1	26817	19.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 26	Truck Flatbed 4 T Highway	Materials from Stockton	1355	20738.5	1.1	19442	14.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 26	Truck, Flatbed, 10T, Hwy	Materials from Stockton	1355	154.7	1.1	145	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 27	Pickup 1/2T 2 WD	Materials from Stockton	1749	8574.4	1.1	8039	4.6	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 27	Truck's End Dump/ 16-20cy/ Hwy	Base Rock from Vernalis	1749	650.3	0.7	929	1.3	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 28	Truck, Flatbed, 10T, Hwy	Materials from Stockton	2190	8301.9	1.1	7783	3.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 28	Truck, Flatbed, 4T, Hwy	Materials from Stockton	2190	13070.0	1.1	12253	5.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 29	Pickup 1/2T 2 WD	Materials from Stockton	274	3458.6	1.1	3242	11.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 29	Pickup, 3/4T, 4wd	Materials from Stockton	274	2093.1	1.1	1962	7.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 29	Truck, 400hp & 8 End Dump Tr, 28cy, 3BT	Materials from Stockton	274	3407.4	1.1	3194	11.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 29	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	274	8787.6	1.1	8238	30	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 29	Truck, Flatbed, 10T, Hwy	Materials from Stockton	274	4154.4	1.1	3895	14.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 29	Truck, Flatbed, 4T, Hwy	Materials from Stockton	274	167.0	1.1	157	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 29	Truck, Flatbed, 10T, Hwy	Materials from Stockton	274	2302.9	1.1	2159	7.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 29	Truck's End Dump/ 10-13cy/ Hwy	Base Rock, Cement, Aggregate, and Sand from Stockton	274	14392.5	1.1	13463	49.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 30	Mechanics Truck	Materials from Stockton	186	1306.7	1.1	1225	7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 30	Pickup 1/2T 2 WD	Materials from Stockton	186	1186.9	1.1	1113	6.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 30	Pickup, 3/4T, 4wd	Materials from Stockton	186	171.9	1.1	161	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 30	Truck, Flatbed, 10T, Hwy	Materials from Stockton	186	246.7	1.1	231	1.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 30	Truck Flatbed 4 T Highway	Materials from Stockton	186	1306.7	1.1	1225	6.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 30	Truck's End Dump/ 10-13cy/ Hwy	Gravel and Base Rock from Vernalis	186	996.3	1.1	934	5.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 30	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Livermore	186	29.5	0.6	52	0.3	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 30	Truck, Flatbed, 10T, Hwy	Materials from Stockton	186	236.3	0.6	417	2.2	Southern Complex on Byron Tract to/from Stockton	17	34	Diesel
SF - Central - 31	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	559	401.9	1.1	377	0.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 31	Pickup 1/2T 2 WD	Materials from Stockton	559	799.4	1.1	749	1.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 31	Pickup, 3/4T, 4wd	Materials from Stockton	559	33.3	1.1	31	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 31	Truck Flatbed 4 T Highway	Materials from Stockton	559	7904.1	1.1	7410	13.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 31	Truck, Flatbed, 10T, Hwy	Materials from Stockton	559	541.9	1.1	508	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 31	Truck, Flatbed, 10T, Hwy	Materials from Stockton	559	656.0	1.1	615	1.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 31	Truck's End Dump/ 10-13cy/ Hwy	Gravel and Base Rock from Vernalis	559	1111.5	1.1	1042	1.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 31	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	559	252.7	0.6	446	0.8	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel

SF - Central - 31	Truck Flatbed 4 T Highway	Loader from and to Stockton	2	2.1	1.1	2	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 32	Truck Flatbed 4 T Highway	Materials from Stockton	136	734.0	1.1	688	5.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 32	Truck, Tractor, 75000#, 6 x 4	Materials from Stockton	136	222.2	1.1	208	1.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 32	Truck Flatbed 4 T Highway	Materials from Stockton	136	227.2	1.1	213	1.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 32	Truck Flatbed 4 T Highway	Crane and Forklift from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 32	Truck Flatbed 4 T Highway	Crane to Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 33	Mechanics Truck	Materials from Stockton	256	5680.0	1.1	5325	21	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 33	Pickup 1/2T 2 WD	Materials from Stockton	256	5680.0	1.1	5325	20.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 33	Truck Flatbed 4 T Highway	Materials from Stockton	256	5680.0	1.1	5325	20.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 33	Truck Flatbed 4 T Highway	Materials from Stockton	256	24.5	1.1	23	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 34	Truck, Flatbed, 10T, Hwy	Materials from Stockton	366	16.7	1.1	16	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 34	Truck End Dump 16-20cy Hwy	Materials from Stockton	366	3090.0	1.1	2897	7.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 34	Truck End Dump 16-20cy Hwy	Materials from Stockton	366	512.0	1.1	480	1.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 34	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Livemore	366	472.6	0.6	834	2.3	Southern Complex on Byron Tract to/from Livemore	17	34	Diesel
SF - Central - 34	Truck End Dump 16-20cy Hwy	Gravel and Flyash from Vernalis	366	1995.7	0.7	2851	7.8	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 34	Truck Flatbed 4 T Highway	Roller to Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 35	Truck & Bottom Dump, 21cy, 30T	Dumper	88	1817.3	1.1	1704	19.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 35	Truck Flatbed 4 T Highway	Crane to Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 36	Tunnel Utility Truck	Highway Truck	362	4253.2	1.1	3987	11.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 36	Truck, Flatbed, 10T, Hwy	Materials from Stockton	362	2158.3	1.1	2023	5.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 36	Truck End Dump 16-20cy Hwy	Materials from Stockton	362	98.1	1.1	92	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 37	Tunnel Utility Truck	Highway Truck	30	145	1.1	136	4.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 37	Truck End Dump 16-20cy Hwy	Materials from Stockton	30	1031.5	1.1	967	32.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 37	Truck & Bottom Dump 21cy 30T	Asphalt, Hot Mix Delivered from Vernalis	30	389	0.7	555	18.5	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel Tier 4
SF - Central - 37	Truck, Flatbed, 10T, Hwy	Rebar from Livemore	30	7.4	0.6	13	0.4	Southern Complex on Byron Tract to/from Livemore	17	34	Diesel
SF - Central - 37	Truck End Dump 16-20cy Hwy	Base Rock and Gravel from Vernalis	30	1642.2	0.7	2346	78.2	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 37	Truck Flatbed 4 T Highway	Dozer and Loader to Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 38	Mechanics Truck	Materials from Stockton	990	2133.0	1.1	2000	2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 38	Truck End Dump 16-20cy Hwy	Materials from Stockton	990	3090.0	1.1	2897	2.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 38	Pickup, 3/4T, 4wd	Materials from Stockton	990	2133.0	1.1	2000	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 38	Truck, Flatbed, 10T, Hwy	Materials from Stockton	990	16.7	1.1	16	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 38	Truck, Flatbed, 4T, Hwy	Materials from Stockton	990	2133.0	1.1	2000	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 38	Truck, Flatbed, 10T, Hwy	Rebar from Livemore	990	58.9	0.6	104	0.1	Southern Complex on Byron Tract to/from Livemore	17	34	Diesel
SF - Central - 38	Truck Flatbed 4 T Highway	Materials from Stockton	990	112.0	1.1	105	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 39	Truck, Flatbed, 10T, Hwy	Materials from Stockton	292	1821.3	1.1	1707	5.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 39	Truck End Dump 16-20cy Hwy	Materials from Stockton	292	444.8	1.1	417	1.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 39	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Livemore	292	29.5	0.6	52	0.2	Southern Complex on Byron Tract to/from Livemore	17	34	Diesel
SF - Central - 39	Truck End Dump 16-20cy Hwy	Base Rock, Gravel, and Flyash from Vernalis	292	664.4	0.7	949	3.2	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 39	Truck Flatbed 4 T Highway	Excavator and Loader from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 40	Tunnel Utility Truck	Highway Truck	392	8508.8	1.1	7977	20.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 40	Truck, Flatbed, 10T, Hwy	Materials from Stockton	392	2086.7	1.1	1956	5.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 41	Tunnel Utility Truck	Highway Truck	36	145	1.1	136	3.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 41	Pickup 1/2T 2 WD	Materials from Stockton	36		1.1	0	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 41	Pickup, 3/4T, 4wd	Materials from Stockton	36		1.1	0	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 41	Truck, Flatbed, 10T, Hwy	Rebar from Livemore	36	21.5	0.6	38	1.1	Southern Complex on Byron Tract to/from Livemore	17	34	Diesel
SF - Central - 41	Truck End Dump 16-20cy Hwy	Gravel and Flyash from Vernalis	36	456.8	0.7	653	18.3	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 41	Truck Flatbed 4 T Highway	Crane and Tractor to Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 42	Mechanics Truck	Materials from Stockton	1820	3547.0	1.1	3325	2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 42	Pickup 1/2T 2 WD	Materials from Stockton	1820	3547.0	1.1	3325	1.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 42	Truck, Flatbed, 10T, Hwy	Materials from Stockton	1820	400.0	1.1	375	0.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 42	Truck Flatbed 4 T Highway	Materials from Stockton	1820	3547.0	1.1	3325	1.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 42	Truck & Bottom Dump 21cy 30T	Materials from Stockton	1820	3492.0	1.1	3274	2	Bathans P8 to/from Stockton	32	64	Diesel Tier 4
SF - Central - 42	Truck End Dump 16-20cy Hwy	Materials from Stockton	1820	227.2	1.1	213	0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 42	Truck Flatbed 4 T Highway	Loader and three Cranes to Stockton	1	4.3	1.1	4	4.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 43	Truck, Flatbed, 10T, Hwy	Materials from Stockton	239	16.7	1.1	16	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 43	Truck End Dump 16-20cy Hwy	Materials from Stockton	239	25.6	1.1	24	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 43	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Livemore	239	22.7	0.6	40	0.2	Southern Complex on Byron Tract to/from Livemore	17	34	Diesel
SF - Central - 43	Truck Flatbed 4 T Highway	Two Excavators, two Loaders, Roller, Dozer, and Scraper to Stockton	1	7.5	1.1	7	7.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 43	Truck Flatbed 4 T Highway	Excavator from and to Stockton	2	2.1	1.1	2	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 44	Truck, Flatbed, 10T, Hwy	Materials from Stockton	91	1265.0	1.1	1186	13.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 44	Truck Flatbed 4 T Highway	Crane to Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 45	Truck, Flatbed, 10T, Hwy	Materials from Stockton	165	3033.0	1.1	2843	17.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 45	Truck Flatbed 4 T Highway	Two Loaders, Grader, Dozer, Skid Loader, and Roller to Stockton	1	6.4	1.1	6	6.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 46	Truck End Dump 16-20cy Hwy	Materials from Stockton	443	3585.6	1.1	3362	7.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 46	Truck, Flatbed, 10T, Hwy	Materials from Stockton	443	106.2	1.1	100	0.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 46	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Livemore	443	206.8	0.6	365	0.8	Southern Complex on Byron Tract to/from Livemore	17	34	Diesel
SF - Central - 46	Truck End Dump 16-20cy Hwy	Materials from Stockton	443	204.8	1.1	192	0.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 46	Truck Flatbed 4 T Highway	Two Cranes and a Forklift to Stockton	1	3.2	1.1	3	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 47	Truck Flatbed 4 T Highway	Excavator, Tractor, Grader, Scraper, Loader, and two Dozers to Stockton	1	7.5	1.1	7	7.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel

SF - Central - 48	Truck, Flatbed, 10T, Hay	Materials from Stockton	1458	80750.0	1.1	75703	51.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 48	Truck, Flatbed, 10T, Hay	Materials from Stockton	1458	18989.2	1.1	255	0.2	Southern Complex on Byron Tract to/from Livermore	32	64	Diesel
SF - Central - 48	Truck Flatbed 4 T Highway	Lift, Two Rollers, Paver, Excavator, and Loader to Stockton	1	6.4	1.1	6	6.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 49	Tunnel Utility Truck	Highway Truck	70	666.7	1.1	625	8.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 49	Truck Flatbed 4 T Highway	Crane and Tractor to Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 50	Pickup 1/2T 2 WD	Materials from Stockton	40	468.0	1.1	439	11.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 51	Pickup 1/2T 2 WD	Materials from Stockton	39	400.0	1.1	375	9.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 52	Pickup 1/2T 2 WD	Materials from Stockton	2409	19694.6	1.1	18464	7.7	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 53	Truck & Bottom Dump' 21cy' 30T	Asphalt, Hot Mix Delivered from Vernalis	11	491	0.7	702	65.5	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel Tier 4
SF - Central - 54	Truck & Bottom Dump' 21cy' 30T	Asphalt, Hot Mix Delivered from Vernalis	10	489	0.7	699	69.9	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel Tier 4
SF - Central - 55	Pickup 1/2T 2 WD	Materials from Stockton	210	200.0	1.1	188	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 55	Truck, End Dump, 10-13cy, Hay	Materials from Stockton	210	4000.0	1.1	3750	18	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 55	Truck, Flatbed, 10T, Hay	Materials from Stockton	210	113.3	0.6	200	1.0	Southern Complex on Byron Tract to/from Stockton	17	34	Diesel

Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site										Miles On-Site	
SF - Central - 3	CAT 770, Articulated End dump	Dumper	253	233.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1166	Diesel or Hybrid
SF - Central - 3	Articulated Rear Dump 22 CV/CAT 730	Dumper	253	2181.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		10907	Diesel or Hybrid
SF - Central - 3	Truck & Bottom Dump, 21cy, 30T	Dumper	253	2408.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		12045	Diesel
SF - Central - 4	CAT 770, Articulated End dump	Dumper	227	101.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		509	Diesel or Hybrid
SF - Central - 4	Articulated Rear Dump 22 CV/CAT 735	Dumper	227	1069.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		5347	Diesel or Hybrid
SF - Central - 5	Cat 770, 5.11HP	Dumper	21	121.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		609	Diesel or Hybrid
SF - Central - 5	Articulated Rear Dump 22 CV/CAT 735	Dumper	21	243.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1219	Diesel or Hybrid
SF - Central - 9	Articulated Rear Dump 22 CV/CAT 730	Dumper	245	195.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		975	Diesel or Hybrid
SF - Central - 9	Trailer, Lowboy, 50T	Off-Highway Truck	245	46.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		234	Diesel
SF - Central - 9	CAT735, 35T, Articulated End dump	Dumper	245	88	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		439	Diesel or Hybrid
SF - Central - 9	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	245	1680.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		8400	Diesel
SF - Central - 10	CAT735, 35T, Articulated End Dump	Dumper	91	87	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		434	Diesel or Hybrid
SF - Central - 10	Cat 770, 5.11HP	Dumper	91	86.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		0	Diesel or Hybrid
SF - Central - 10	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	91	468.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2340	Diesel
SF - Central - 11	Articulated Rear Dump 22 CV/CAT 730	Dumper	315	40074.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		200372	Diesel or Hybrid
SF - Central - 11	CAT 770 Dump	Dumper	315	244	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1222	Diesel or Hybrid
SF - Central - 11	CAT735, 35T, Articulated End Dump	Dumper	315	489	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2443	Diesel or Hybrid
SF - Central - 12	Trailer, Lowboy, 50T	Off-Highway Truck	799	10782.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		53911	Diesel
SF - Central - 12	CAT 740 40T, Articulated End dump	Dumper	799	3092.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		15461	Diesel or Hybrid
SF - Central - 12	Tremie Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	799	16687.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		83436	Diesel
SF - Central - 13	Trailer, Lowboy, 50T	Off-Highway Truck	964	1989.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		9946	Diesel
SF - Central - 13	CAT 770 Dump	Dumper	964	40	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		201	Diesel or Hybrid
SF - Central - 13	Articulated Rear Dump 22 CV/CAT 730	Dumper	964	9120.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		45604	Diesel or Hybrid
SF - Central - 13	CAT 740 40T, Articulated End dump	Dumper	964	287.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1435	Diesel or Hybrid
SF - Central - 13	Articulated Rear Dump 22 CV/CAT 735	Dumper	964	1201.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		6009	Diesel or Hybrid
SF - Central - 13	CAT773, 53.7T, End Dump	Dumper	964	1856.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		9282	Diesel or Hybrid
SF - Central - 13	Tremie Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	964	3551.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		17759	Diesel
SF - Central - 14	CAT 740 40T, Articulated End dump	Dumper	706	2908.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		14545	Diesel or Hybrid
SF - Central - 14	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	706	4449.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		22250	Diesel
SF - Central - 15A	Trailer, Lowboy, 50T	Off-Highway Truck	264	7300.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		36504	Diesel
SF - Central - 15B	CAT 770 Dump	Dumper	400	464	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2319	Diesel or Hybrid
SF - Central - 15B	Articulated Rear Dump 22 CV/CAT 730	Dumper	400	721.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		3606	Diesel or Hybrid
SF - Central - 15B	Articulated Rear Dump 22 CV/CAT 735	Dumper	400	8671.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		43355	Diesel or Hybrid
SF - Central - 15B	Tremie Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	400	2679.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		13396	Diesel
SF - Central - 16	Articulated Rear Dump 22 CV/CAT 730	Dumper	179	176.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		881	Diesel or Hybrid
SF - Central - 16	Tremie Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	179	332.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1665	Diesel
SF - Central - 17	Articulated Rear Dump 22 CV/CAT 730	Dumper	37	26.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		133	Diesel or Hybrid
SF - Central - 18	Articulated Rear Dump 22 CV/CAT 730	Dumper	34	58.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		295	Diesel or Hybrid
SF - Central - 18	Concrete Pump Truck	Off-Highway Truck	34	24.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		122	Diesel
SF - Central - 19	CAT 770 Dump	Dumper	383	1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		3	Diesel or Hybrid
SF - Central - 19	Articulated Rear Dump 22 CV/CAT 730	Dumper	383	328.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1641	Diesel or Hybrid
SF - Central - 19	CAT 740 40T, Articulated End dump	Dumper	383	15.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		77	Diesel or Hybrid
SF - Central - 19	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	383	893.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		4466	Diesel
SF - Central - 20	Tremie Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	826	2415.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		12078	Diesel
SF - Central - 22	Trailer, Lowboy, 50T	Off-Highway Truck	269	292.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1463	Diesel

SF - Central - 23	Articulated Rear Dump 22 CV/CAT 730	Dumper	201	5595.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	27977	Diesel or Hybrid
SF - Central - 23	Articulated Rear Dump 22 CV/CAT 735	Dumper	201	484.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2422	Diesel or Hybrid
SF - Central - 24	Tremie Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	181		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 25	Articulated Rear Dump 22 CV/CAT 735	Dumper	445	41217	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	206085	Diesel or Hybrid
SF - Central - 26	CAT 770 Dump	Dumper	1355	11203	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	56014	Diesel or Hybrid
SF - Central - 26	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	1355		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 27	CAT 769, 41.6T End Dump	Dumper	1749	34297.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
SF - Central - 28	Cat 770, 511HP	Dumper	2190		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
SF - Central - 28	Cat 745 43T, Articulated End Dump	Dumper	2190		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
SF - Central - 29	CAT735, 35T, Articulated End Dump	Dumper	274	8194	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	40972	Diesel or Hybrid
SF - Central - 29	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	274		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 30	Cat 770, 511HP	Dumper	186	134.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	674	Diesel or Hybrid
SF - Central - 30	Articulated Rear Dump 22 CV/CAT 730	Dumper	186	3081.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	15406	Diesel or Hybrid
SF - Central - 30	CAT735, 35T, Articulated End Dump	Dumper	186	287	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1435	Diesel or Hybrid
SF - Central - 30	Trailer, Lowboy, 50T	Off-Highway Truck	186	550.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2750	Diesel
SF - Central - 30	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	186		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 31	Trailer, Lowboy, 50T	Off-Highway Truck	559	401.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2010	Diesel
SF - Central - 31	Articulated Rear Dump 22 CV/CAT 730	Dumper	559	13991.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	69956	Diesel or Hybrid
SF - Central - 31	Cat 770, 511HP	Dumper	559	205.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1027	Diesel or Hybrid
SF - Central - 31	CAT 740 40T, Articulated End dump	Dumper	559	610.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3050	Diesel or Hybrid
SF - Central - 31	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	559		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 32	Trailer, Lowboy, 50T	Off-Highway Truck	136	222.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1111	Diesel
SF - Central - 32	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	136		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 34	Articulated Rear Dump 22 CV/CAT 730	Dumper	366	919.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	4597	Diesel or Hybrid
SF - Central - 35	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	88	384.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1920	Diesel
SF - Central - 36	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	362	2432.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	12160	Diesel
SF - Central - 38	Articulated Rear Dump 22 CV/CAT 730	Dumper	990	666.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3334	Diesel or Hybrid
SF - Central - 43	Articulated Rear Dump 22 CV/CAT 730	Dumper	239	586.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2932	Diesel or Hybrid
SF - Central - 43	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	239	1678.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	8395	Diesel
SF - Central - 45	Articulated Rear Dump 22 CV/CAT 730	Dumper	165	1334.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	6673	Diesel or Hybrid
SF - Central - 46	Articulated Rear Dump 22 CV/CAT 730	Dumper	443	586.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2932	Diesel or Hybrid
SF - Central - 46	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	443	1412.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	7065	Diesel
SF - Central - 55	CAT 740 40T, Articulated End dump	Dumper	210	200.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1000	Diesel or Hybrid

**Employees Required to Southern Complex on Byron Tract - Central
Option 9**

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
SF - Central - 1	Carpenter Apprentice	8.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 1	Carpenter Foreman	8.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 1	Carpenter Journeyman	17.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 1	Electrical Foreman	4.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 1	Electrical Journeyman	17.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 1	Iron Worker Journeyman	17.8				32
SF - Central - 1	Rebar/Struct		10		Stockton to/from Southern Complex on Byron Tract	
SF - Central - 1	Laborer G2 General	3217.8	10		Stockton to/from Southern Complex on Byron Tract	32
						32
SF - Central - 1	Operator G3a Cranes 45 t and under	328.8	10		Stockton to/from Southern Complex on Byron Tract	
SF - Central - 1	Teamster G1 Hwy ED<6cy, Flatbed	799.7	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 1	Teamster G3 Boom Truck	4.4	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-1						
SF - Central - 2	Carpenter Apprentice	44.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Carpenter Foreman	44.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Carpenter Journeyman	88.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Electrical Foreman	22.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Electrician Journeyman	88.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Iron Worker Journeyman Rebar/Stru	88.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Laborer G2 General	16088.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Operator G3a Cranes 45 t and under	1644.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Teamster G1 Hwy ED<6cy, Flatbed	4000.3	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Teamster G3 Boom Truck	22.2	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-2						
SF - Central - 3	Laborer G1 Pipe layers	757.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Laborer G1 Power Tamper	378.7	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Laborer G2 General	4903.5	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Laborer G3 Flagman	1240.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Operator G3 Loader >4cy	328.5	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Operator G2a Cranes 45 to 100 t	2423.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	OPERATING ENGINEER FOREMAN	2480.0	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Operator G2 Excavator 3.5 to 7.0	363.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Operator G2 Finish Blade	853.3	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Operator G3 BH-Loader>3/4cy	2613.1	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Operator G4 Dozer & Push Cat	1799.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Operator G4 Grade Check	1211.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Operator G5 Compactor w-blade	1086.3	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Teamster G2 Hwy ED 6-8cy, Wate	1604.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Teamster G3 ED 8-24cy, Water>7	4895.3	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-3						
			150			
SF - Central - 4	Laborer Foreman	30.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Laborer G1 Pipe layers	401.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Laborer G3 Bridge labor	5697.0	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Laborer G1 Power Tamper	140.0	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Laborer G2 General	1412.5	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Laborer G3 Flagman	1090.5	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	OPERATING ENGINEER FOREMAN	2653.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G2 Finish Blade	646.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G1a Cranes>100 t	1424.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G2 Excavator 3.5 to 7.0 cy	267.3	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G2a Cranes 45 to 100 t	1424.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G3 BH-Loader>3/4cy	407.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G4 Dozer & Push Cat	470.7	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G4 Grade Check	857.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G4 Loader <4.1cy	70.0	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G4a Boom truck<15 ton	35.1	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G5 Asphalt Roller	623.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G5 Compactor w-blade	203.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G5 Paver	311.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G7 Roller, Compactor	545.3	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G8 Generator	109.1	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Pile Driver Wharf and Dock	5697.0	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Teamster G1 Hwy ED<6cy, Flatbed	1469.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Teamster G2 Hwy ED 6-8cy, Water<7	1123.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Teamster G3 Boom Truck	35.1	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Teamster G3 ED 8-24cy, Water>7mg;	1069.4	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-4						
SF - Central - 5	Laborer G2 General	374.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Laborer G3 Flagman	374.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	OPERATING ENGINEER FOREMAN	309.0	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Operator G2 Finish Blade	243.7	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Operator G3 Loader >4cy	121.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Operator G4 Dozer & Push Cat	374.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Operator G4 Grade Check	121.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Operator G4 Loader <4.1cy	309.0	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Operator G4 Trim Machine	93.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Operator G5 Compactor w-blade	121.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Teamster G2 Hwy ED 6-8cy, Water<7	187.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Teamster G3 ED 8-24cy, Water>7mg;	618.1	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Teamster G4 Water Tanker, Off Hwy	121.8	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-5						
SF - Central - 6	Carpenter Apprentice	925.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Carpenter Foreman	925.4	10		Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 6	Carpenter Journeyman	1850.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Electrical Foreman	231.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Electrician Journeyman	926.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Iron Worker Journeyman Rebar/Stru	1850.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Laborer G2 General	57378.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	OPERATING ENGINEER FOREMAN	18509.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Operator G2 Plant Operator	37018.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Operator G3 BH-Loader>3/4cy	18509.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Operator G3a Cranes 45 t and under	18509.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Operator G4 Grade Check	18509.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Operator G4 Hvy Duty Mechanic	18509.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Operator G4a Boom truck<15 ton	925.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Teamster G1 Hwy ED<6cy, Flatbed	18509.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Teamster G2 Hwy ED 6-8cy, Water<7	18509.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Teamster G3 Boom Truck	462.7	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-6					
SF - Central - 7	Carpenter Apprentice	3385.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Carpenter Foreman	3385.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Carpenter Journeyman	6605.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Electrical Foreman	1303.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Electrician Journeyman	4250.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Iron Worker Journeyman Rebar/Stru	6770.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Laborer Foreman	10062.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Laborer G1 Pipe layers	1872.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Laborer G2 General	47112.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	OPERATING ENGINEER FOREMAN	93.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G2 Finish Blade	93.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G2a Cranes 45 to 100 t	164.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G3a Cranes 45 t and under	1876.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G4 BH-Loader <.76cy	1872.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G4 Dozer & Push Cat	93.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G4 Grade Check	93.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G4 Loader <4.1cy	9126.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G4 Scraper	187.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G4a Boom truck<15 ton	1756.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G6 Tractor	4563.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G7 Roller, Compactor	93.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Teamster G2 Hwy ED 6-8cy, Water<7	1029.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Teamster G3 Boom Truck	1692.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Teamster G1 Hwy ED<6cy, Flatbed	18252.0	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-7					
SF - Central - 8	Carpenter Journeyman	15520.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Electrician Journeyman	15520.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Laborer Foreman	8382.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Laborer G4 Clean-up	16764.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Operator G1a Cranes>100 t	48672.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Operator G2 Finish Blade	1676.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Operator G3 BH-Loader>3/4cy	8382.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Operator G4 Hvy Duty Mechanic	12168.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Operator G5 Compactor w-blade	1676.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Operator G5 Concrete Pump	6084.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Operator G7 Oiler	36504.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Teamster G1 Hwy ED<6cy, Flatbed	20550.1	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-8					
SF - Central - 9	Carpenter Apprentice	1170.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Carpenter Foreman	1494.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Carpenter Journeyman	4626.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Cement Mason Foreman	141.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Cement Mason Journeyman	735.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Electrical Foreman	1170.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Electrician Journeyman	5928.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Iron Worker Foreman	421.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Iron Worker Journeyman Rebar/Stru	9968.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Laborer Foreman	811.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Laborer G1 Pipe layers	1248.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Laborer G1 Vibrator, Green Cutter	234.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Laborer G2 Concrete Laborer	351.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Laborer G2 General	5643.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Laborer G2 High Pressure Nozzlemar	70.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	OPERATING ENGINEER FOREMAN	126.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G1a Cranes>100 t	46.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G2 Excavator 3.5 to 7.0 cy	29.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G2 Finish Blade	7.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G2a Cranes 45 to 100 t	222.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G3 BH-Loader>3/4cy	624.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G3 Loader >4cy	768.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G3a Cranes 45 t and under	1170.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G4 Dozer & Push Cat	126.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G4 Grade Check	126.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G4 Hvy Duty Mechanic	87.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G4a Boom truck<15 ton	1170.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G5 Compactor w-blade	97.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G7 Oiler	46.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Pile Driver Foreman	46.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Pile Driver Journeyman	234.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Teamster G1 Hwy ED<6cy, Flatbed	312.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Teamster G2 Hwy ED 6-8cy, Water<7	368.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Teamster G3 Boom Truck	1170.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Teamster G3 ED 8-24cy, Water>7mg	2047.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Teamster G4 ED 25-65 Cy	282.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Teamster G4 Tractor, Lowbed/Trailer	46.8	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-9			370		
SF - Central - 10	Carpenter Foreman	375.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Compactor Journeyman	2462.9	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 10	Cement Mason Foreman	469.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Cement Mason Journeyman	2967.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Iron Worker Foreman	363.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Iron Worker Journeyman Rebar/Stru	2542.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Laborer Foreman	134.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Laborer G1 Vibrator, Green Cutter	269.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Laborer G2 Concrete Laborer	403.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Laborer G2 General	2564.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	OPERATING ENGINEER FOREMAN	86.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Operator G2 Finish Blade	86.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Operator G2a Cranes 45 to 100 t	380.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Operator G3 Loader >4cy	86.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Operator G4 Hvy Duty Mechanic	95.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Operator G5 Compactor w-blade	86.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Teamster G1 Hwy ED<6cy, Flatbed	95.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Teamster G3 ED 8-24cy, Water>7mgi	743.9	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Central-10

SF - Central - 11	Carpenter Apprentice	1084.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Carpenter Foreman	1084.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Carpenter Journeyman	2169.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Electrical Foreman	271.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Electrician Journeyman	1084.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Iron Worker Foreman	10021.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Iron Worker Journeyman Rebar/Stru	16952.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Laborer Foreman	10019.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Laborer G2 Concrete Laborer	60119.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Laborer G2 General	87241.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	OPERATING ENGINEER FOREMAN	18834.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G1a Cranes>100 t	28611.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G2 Finish Blade	488.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G2 Micro Tunnel	20038.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G2a Cranes 45 to 100 t	20038.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G3 BH-Loader>3/4cy	10018.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G3 Loader >4cy	10262.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G4 Dozer & Push Cat	10018.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G4 Grade Check	10262.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G4 Hvy Duty Mechanic	10018.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G4 Loader <4.1cy	244.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G4a Boom Truck<15 ton	1084.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G5 Compactor w-blade	244.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G5 Drilling & Boring Mach	234.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G7 Oiler	48884.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Teamster G1 Hwy ED<6cy, Flatbed	10018.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Teamster G3 Boom Truck	542.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Teamster G3 ED 8-24cy, Water>7mgi	40563.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Teamster G4 Water Tanker, Off Hwy	244.3	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Central-11

SF - Central - 12	Carpenter Foreman	4171.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Carpenter Journeyman	27688.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Cement Mason Foreman	1113.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Cement Mason Journeyman	4347.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Iron Worker Foreman	20150.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Iron Worker Journeyman Rebar/Stru	137226.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Laborer Foreman	10019.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Laborer G1 Vibrator, Green Cutter	2592.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Laborer G2 Concrete Laborer	15604.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Laborer G2 General	57083.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Laborer G2 High Pressure Nozzlemar	5469.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	OPERATING ENGINEER FOREMAN	4879.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G1a Cranes>100 t	19807.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G2 Excavator 3.5 to 7.0 cy	3959.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G2 Finish Blade	158.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G2 Plant Operator	187.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G2a Cranes 45 to 100 t	8818.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G3 Loader >4cy	317.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G3a Cranes 45 t and under	441.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G4 Dozer & Push Cat	1688.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G4 Hvy Duty Mechanic	973.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G5 Compactor w-blade	317.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G6 Screedman	251.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G6 Tractor	317.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G7 Oiler	19807.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G8a Skidsteer <Bobcat 743	325.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Teamster G2 Hwy ED 6-8cy, Water<7	404.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Teamster G3 ED 8-24cy, Water>7mgi	16687.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Teamster G4 ED 25-65 Cy	11315.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Teamster G4 Tractor, Lowbed/Trailer	10782.1	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Central-12

SF - Central - 13	Carpenter Apprentice	159.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Carpenter Foreman	7488.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Carpenter Journeyman	36057.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Cement Mason Foreman	853.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Cement Mason Journeyman	3364.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Electrical Foreman	1748.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Electrical Lineman	1684.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Electrician Journeyman	253.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Iron Worker Foreman	8514.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Iron Worker Journeyman Rebar/Stru	61686.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Iron Worker-Rigger	595.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Laborer Foreman	6311.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Laborer G1 Vibrator, Green Cutter	2367.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Laborer G2 Concrete Laborer	20793.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Laborer G2 General	56513.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Laborer G2 High Pressure Nozzlemar	928.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Laborer G3 Flagman	560.8	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 13	Millwright	6739.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	OPERATING ENGINEER FOREMAN	5706.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G1a Cranes>100 t	14370.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G2 Excavator 3.5 to 7.0 cy	352.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G2 Finish Blade	186.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G2 Micro Tunnel	4561.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G2a Cranes 45 to 100 t	9744.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G3 BH-Loader>3/4cy	2280.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G3 Loader >4cy	2392.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G4 Dozer & Push Cat	2941.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G4 Grade Check	2460.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G4 Hvy Duty Mechanic	2757.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G4 Loader <4.1cy	40.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G4a Boom truck<15 ton	253.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G5 Compactor w-blade	111.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G6 Screedman	200.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G6 Tractor	71.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G7 Oiler	21212.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G8a Skidsteer <Bobcat 743	106.1]	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Pipefitter Foreman	1684.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Pipefitter Journeyman	1684.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Teamster G1 Hwy ED<6cy, Flatbed	3422.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Teamster G2 Hwy ED 6-8cy, Water<7	194.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Teamster G3 Boom Truck	126.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Teamster G3 ED 8-24cy, Water>7mg;	12752.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Teamster G4 ED 25-65 Cy	3265.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Teamster G4 Tractor, Lowbed/Trailer	1989.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Teamster G4 Water Tanker, Off Hwy	40.1	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-13					
SF - Central - 14	Carpenter Apprentice	901.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Carpenter Foreman	11192.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Carpenter Journeyman	64179.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Cement Mason Foreman	2745.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Cement Mason Journeyman	13891.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Electrical Foreman	117.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Electrical Lineman	117.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Iron Worker Foreman	9063.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Iron Worker Journeyman Rebar/Stru	58745.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Iron Worker-Rigger	233.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Laborer Foreman	3724.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Laborer G1 Vibrator, Green Cutter	2099.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Laborer G2 Concrete Laborer	7880.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Laborer G2 General	46132.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Laborer G2 High Pressure Nozzlemar	995.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Millwright	936.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	OPERATING ENGINEER FOREMAN	1123.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G1a Cranes>100 t	8996.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G2 Excavator 3.5 to 7.0 cy	1650.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G2 Finish Blade	297.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G2a Cranes 45 to 100 t	4349.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G3 Loader >4cy	595.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G4 Dozer & Push Cat	595.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G4 Hvy Duty Mechanic	923.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G4 Loader <4.1cy		10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G5 Compactor w-blade	595.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G6 Screedman	404.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G6 Tractor	595.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G7 Oiler	9463.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G8a Skidsteer <Bobcat 743	1679.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Pile Driver Foreman	190.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Pile Driver Journeyman	1143.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Pipefitter Foreman	117.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Pipefitter Journeyman	117.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Teamster G1 Hwy ED<6cy, Flatbed	239.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Teamster G2 Hwy ED 6-8cy, Water<7	1828.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Teamster G3 ED 8-24cy, Water>7mg;	4449.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Teamster G4 ED 25-65 Cy	2908.9	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-14					
SF - Central - 15A	Operator G1a Cranes>100 t	3650.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15A	Operator G3 BH-Loader>3/4cy	3650.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15A	Operator G7 Oiler	3650.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15A	Pipefitter Apprentice	14601.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15A	Pipefitter Foreman	3650.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15A	Pipefitter Journeyman	21902.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15A	Teamster G4 Tractor, Lowbed/Trailer	1825.2	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-15					
SF - Central - 15B	Carpenter Apprentice	93.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Carpenter Foreman	3288.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Carpenter Journeyman	19548.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Cement Mason Foreman	684.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Cement Mason Journeyman	3138.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Electrical Foreman	23.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Electrician Journeyman	93.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Iron Worker Foreman	7669.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Iron Worker Journeyman Rebar/Stru	54272.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Laborer Foreman	2539.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Laborer G1 Vibrator, Green Cutter	1364.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Laborer G2 Concrete Laborer	5358.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Laborer G2 General	17680.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Laborer G2 High Pressure Nozzlemar	2682.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	OPERATING ENGINEER FOREMAN	2640.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G1a Cranes>100 t	3550.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G2 Excavator 3.5 to 7.0 cy	1455.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G2 Finish Blade	1291.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G2 Micro Tunnel	210.6	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 15B	Operator G2 Plant Operator	721.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G2a Cranes 45 to 100 t	1981.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G3 BH-Loader>3/4cy	721.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G3 Loader >4cy	1185.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G3a Cranes 45 t and under	721.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G4 Dozer & Push Cat	3633.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G4 Grade Check	1919.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G4 Hwy Duty Mechanic	262.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G4a Boom truck<15 ton	46.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G5 Compactor w-blade	463.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G6 Screedman	98.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G7 Oiler	4481.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G8a Skidsteer <Bobcat 743	305.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Teamster G1 Hwy ED<6cy, Flatbed	721.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Teamster G2 Hwy ED 6-8cy, Water<7	1390.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Teamster G3 Boom Truck	46.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Teamster G3 ED 8-24cy, Water>7mg;	2679.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Teamster G4 ED 25-65 Cy	9392.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Teamster G4 Water Tanker, Off Hwy	463.8	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-15					

SF - Central - 16	Carpenter Apprentice	1341.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Carpenter Foreman	1471.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Carpenter Journeyman	3705.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Cement Mason Foreman	165.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Cement Mason Journeyman	941.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Electrical Foreman	1341.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Electrician Journeyman	2683.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Iron Worker Foreman	301.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Iron Worker Journeyman Rebar/Stru	4796.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Laborer Foreman	129.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Laborer G1 Vibrator, Green Cutter	222.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Laborer G2 Concrete Laborer	665.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Laborer G2 General	4504.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Laborer G2 High Pressure Nozzlelema	18.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	OPERATING ENGINEER FOREMAN	88.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G1a Cranes>100 t	352.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G2a Cranes 45 to 100 t	352.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G3 Loader >4cy	88.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G3a Cranes 45 t and under	1341.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G4 Dozer & Push Cat	88.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G4 Grade Check	88.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G4 Hwy Duty Mechanic	88.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G4a Boom truck<15 ton	1341.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G5 Compactor w-blade	88.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G6 Screedman	111.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G7 Oiler	352.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Teamster G2 Hwy ED 6-8cy, Water<7	44.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Teamster G3 Boom Truck	1341.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Teamster G3 ED 8-24cy, Water>7mg;	332.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Teamster G4 ED 25-65 Cy	176.2	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-16					

SF - Central - 17	Carpenter Apprentice	1501.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Carpenter Foreman	1544.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Carpenter Journeyman	3308.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Cement Mason Foreman	37.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Cement Mason Journeyman	230.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Electrical Foreman	1501.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Electrician Journeyman	3003.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Iron Worker Foreman	103.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Iron Worker Journeyman Rebar/Stru	3727.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Laborer Foreman	41.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Laborer G1 Vibrator, Green Cutter	59.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Laborer G2 Concrete Laborer	89.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Laborer G2 General	3471.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Laborer G2 High Pressure Nozzlelema	11.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	OPERATING ENGINEER FOREMAN	13.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G1a Cranes>100 t	94.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G2a Cranes 45 to 100 t	94.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G3 Loader >4cy	13.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G3a Cranes 45 t and under	1501.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G4 Dozer & Push Cat	13.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G4 Grade Check	13.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G4 Hwy Duty Mechanic	23.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G4a Boom truck<15 ton	1501.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G5 Compactor w-blade	13.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G6 Screedman	29.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G7 Oiler	94.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Teamster G2 Hwy ED 6-8cy, Water<7	6.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Teamster G3 Boom Truck	1501.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Teamster G3 ED 8-24cy, Water>7mg;	44.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Teamster G4 ED 25-65 Cy	26.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-17					

SF - Central - 18	Carpenter Foreman	39.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Carpenter Journeyman	275.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Cement Mason Foreman	24.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Cement Mason Journeyman	137.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Electrical Foreman	0.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Electrician Journeyman	0.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Iron Worker Foreman	56.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Iron Worker Journeyman Rebar/Stru	393.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Laborer Foreman	22.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Laborer G1 Vibrator, Green Cutter	32.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Laborer G2 Concrete Laborer	48.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Laborer G2 General	288.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Laborer G2 High Pressure Nozzlelema	6.5	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 18	Millwright	0.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	OPERATING ENGINEER FOREMAN	29.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G1a Cranes>100 t	51.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G2a Cranes 45 to 100 t	51.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G3 Loader >4cy	29.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G3a Cranes 45 t and under	0.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G4 Dozer & Push Cat	29.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G4 Grade Check	29.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G4 Hvy Duty Mechanic	12.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G4a Boom truck<15 ton	0.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G5 Compactor w-blade	29.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G7 Oiler	51.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Teamster G2 Hwy ED 6-8cy, Water<7	14.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Teamster G3 Boom Truck	0.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Teamster G3 ED 8-24cy, Water>7mg;	24.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Teamster G4 ED 25-65 Cy	58.9	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Central-18

SF - Central - 19	Carpenter Apprentice	2679.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Carpenter Foreman	2972.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Carpenter Journeyman	7383.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Cement Mason Foreman	343.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Cement Mason Journeyman	2374.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Electrical Foreman	2856.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Electrician Lineman	177.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Electrician Journeyman	5358.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Iron Worker Foreman	810.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Iron Worker Journeyman Rebar/Stru	11034.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Laborer Foreman	2458.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Laborer G1 Pipe Layers	1827.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Laborer G1 Vibrator, Green Cutter	595.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Laborer G2 Concrete Laborer	2699.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Laborer G2 General	18459.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Laborer G2 High Pressure Nozzlemar	70.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Laborer G3 Flagman	70.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	OPERATING ENGINEER FOREMAN	281.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G1a Cranes>100 t	472.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G2 Excavator 3.5 to 7.0 cy	3.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G2 Finish Blade	73.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G3a Cranes 45 t and under	945.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G3 BH-Loader>3/4cy	1621.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G3 Loader >4cy	1078.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G3a Cranes 45 t and under	2679.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G4 Dozer & Push Cat	170.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G4 Grade Check	210.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G4 Hvy Duty Mechanic	236.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G4 Loader <4.1cy	70.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G4a Boom truck<15 ton	2679.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G5 Asphalt Roller	87.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G5 Compactor w-blade	237.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G5 Curb & Gutter Conc Fini	304.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G5 Paver	43.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G6 Screedman	297.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G6 Tractor	0.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G7 Oiler	945.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G8 Pump	14.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G8a Skidsteer <Bobcat 743	1359.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Teamster G1 Hwy ED<6cy, Flatbed	1556.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Teamster G2 Hwy ED 6-8cy, Water<7	1189.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Teamster G3 Boom Truck	2670.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Teamster G3 ED 8-24cy, Water>7mg;	1104.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Teamster G4 ED 25-65 Cy	343.6	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Central-19

SF - Central - 20	Carpenter Apprentice	5590.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Carpenter Foreman	14792.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Carpenter Journeyman	69709.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Cement Mason Foreman	2010.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Cement Mason Journeyman	7634.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Electrical Foreman	6467.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Electrician Journeyman	18525.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Iron Worker Foreman	7565.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Iron Worker Journeyman Rebar/Stru	57263.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Laborer Foreman	2567.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Laborer G1 Vibrator, Green Cutter	1610.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Laborer G2 Concrete Laborer	4831.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Laborer G2 General	48230.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Laborer G2 High Pressure Nozzlemar	487.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Operator G1a Cranes>100 t	7835.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Operator G3a Cranes 45 t and under	8521.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Operator G4 Hvy Duty Mechanic	646.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Operator G4a Boom truck<15 ton	5070.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Operator G6 Screedman	358.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Operator G7 Oiler	8701.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Operator G8a Skidsteer <Bobcat 743	104.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Pipefitter Apprentice	578.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Pipefitter Foreman	874.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Pipefitter Journeyman	5243.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Teamster G1 Hwy ED<6cy, Flatbed	2271.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Teamster G2 Hwy ED 6-8cy, Water<7	2415.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Teamster G3 Boom Truck	5070.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Teamster G3 ED 8-24cy, Water>7mg;	2415.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Teamster G4 Tractor, Lowbed/Trailer	865.8	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Central-20

SF - Central - 21	Carpenter Foreman	3900.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 21	Carpenter Journeyman	7800.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 21	Laborer G2 General	3900.0	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Central-21

SF - Central - 22	Carpenter Foreman	2457.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Electrical Lineman	4680.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Electrical Foreman	1287.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Electrician Journeyman	468.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Iron Worker Rigger	140.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Laborer G2 General	234.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Millwright	14508.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Operator G1a Cranes>100 t	468.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Operator G3a Cranes 45 t and under	1647.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Operator G7 Oiler	468.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Pipefitter Foreman	1746.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Pipefitter Journeyman	5238.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Teamster G1 Hwy ED<6cy, Flatbed	2574.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Teamster G4 Tractor, Lowbed/Trailer	292.5	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Central-22

SF - Central - 23	Carpenter Apprentice	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Carpenter Foreman	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Carpenter Journeyman	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Electrical Foreman	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Electrician Journeyman	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Iron Worker Rigger	50.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Iron Worker Journeyman Rebar/Stru	241.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Laborer Foreman	39.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Laborer G1 Pipe Layer	2577.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Laborer G2 General	5318.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Laborer G3 Flagman	337.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	OPERATING ENGINEER FOREMAN	14800.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G2 Excavator 3.5 to 7.0 cy	1220.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G2 Finish Blade	25208.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G2a Cranes 45 to 100 t	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G3 BH-Loader>3/4cy	7538.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G3 Loader >4cy	1499.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G3a Cranes 45 t and under	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G4 BH-Loader <.76cy	50.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G4 Dozer & Push Cat	2052.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G4 Grade Check	208.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G4 Scraper	80.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G4a Boom truck<15 ton	110.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G5 Compactor w-blade	920.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G8 Pump	33.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Teamster G1 Hwy ED<6cy, Flatbed	59.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Teamster G2 Hwy ED 6-8cy, Water<7	26438.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Teamster G3 Boom Truck	170.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Teamster G3 ED 8-24cy, Water>7mg;	19086.2	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Central-23

SF - Central - 24	Laborer G2 General	400.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 24	Laborer G3 Flagman	400.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 24	OPERATING ENGINEER FOREMAN	200.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 24	Operator G2 Finish Blade	100.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 24	Operator G4 Dozer & Push Cat	400.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 24	Operator G4 Loader <4.1cy	200.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 24	Teamster G2 Hwy ED 6-8cy, Water<7	200.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 24	Teamster G3 ED 8-24cy, Water>7mg;	1600.0	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Central-24

SF - Central - 25	Electrical Lineman	1560.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Laborer Foreman	3900.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Laborer G1 Pipe layers	7800.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Laborer G3 Flagman	41522.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Laborer G4 Clean-up	559.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	OPERATING ENGINEER FOREMAN	21582.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Operator G2 Excavator 3.5 to 7.0 cy	22124.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Operator G2 Finish Blade	5190.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Operator G4 Dozer & Push Cat	22404.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Operator G4 Grade Check	10380.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Operator G8 Generator	7800.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Teamster G2 Hwy ED 6-8cy, Water<7	5190.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Teamster G3 Boom Truck	3900.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Teamster G3 ED 8-24cy, Water>7mg;	83604.9	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Central-25

SF - Central - 26	Laborer G2 General	64408.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	OPERATING ENGINEER FOREMAN	49343.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G2 Excavator 3.5 to 7.0 cy	10332.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G2 Finish Blade	11202.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G2 Plant Operator	41476.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G3 BH-Loader>3/4cy	20738.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G3a Cranes 45 t and under	20738.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G4 Dozer & Push Cat	48073.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G4 Grade Check	31070.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G4 Scraper	73091.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G5 Compactor w-blade	18272.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G6 Tractor	2066.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G7 Roller, Compactor	28604.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G8 Pump	2066.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Teamster G1 Hwy ED<6cy, Flatbed	20738.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Teamster G2 Hwy ED 6-8cy, Water<7	20738.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Teamster G3 ED 8-24cy, Water>7mg;	11202.8	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Central-26

SF - Central - 27	Laborer G2 General	119.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 27	OPERATING ENGINEER FOREMAN	13583.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 27	Operator G5 Compactor w-blade	119.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 27	Operator G4 Dozer & Push Cat	32095.7	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 27	Operator G4 Scraper	19915.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 27	Operator G2 Excavator 3.5 to 7.0 cy	17148.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 27	Operator G2 Finish Blade	119.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 27	Teamster G3 ED 8-24cy, Water>7mg;	34297.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-27					
SF - Central - 28	Carpenter Journeyman	2075.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 28	Electrician Journeyman	4150.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 28	Laborer Foreman	21371.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 28	Laborer G2 General	26140.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 28	Laborer G4 Clean-up	16603.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 28	Operator G3 BH-Loader>3/4cy	8610.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 28	Operator G6 Tractor	6535.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 28	Teamster G1 Hwy ED<6cy, Flatbed	21371.9	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-28					
SF - Central - 29	Laborer Foreman	1895.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Laborer G2 General	15469.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Laborer G3 Fence Builder	7259.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	OPERATING ENGINEER FOREMAN	5638.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G8a Skidsteer <Bobcat 743	107.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G2 Excavator 3.5 to 7.0 cy	2921.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G2 Finish Blade	2339.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G3 BH-Loader>3/4cy	2688.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G3 Gradall	2867.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G3 Loader >4cy	5355.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G4 Dozer & Push Cat	895.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G4 Grade Check	1160.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G4 Scraper	555.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G4 Trim Machine	819.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G5 Compactor w-blade	2093.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G6 Tractor	334.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G7 Roller, Compactor	340.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G8 Pump	603.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Teamster G1 Hwy ED<6cy, Flatbed	4321.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Teamster G2 Hwy ED 6-8cy, Water<7	2564.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Teamster G3 ED 8-24cy, Water>7mg;	9142.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Teamster G4 ED 25-65 Cy	2458.9	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-29					
SF - Central - 30	Carpenter Foreman	1187.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Carpenter Journeyman	8309.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Cement Mason Foreman	12.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Cement Mason Journeyman	36.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Iron Worker Foreman	1026.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Iron Worker Journeyman Rebar/Stru	6160.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Laborer Foreman	310.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Laborer G1 Vibrator, Green Cutter	63.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Laborer G2 Concrete Laborer	1675.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Laborer G2 General	6227.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Laborer G2 High Pressure Nozzlemar	13.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Laborer G3 Dumpman	171.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	OPERATOR - MECHANIC	137.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	OPERATING ENGINEER FOREMAN	2115.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G1a Cranes>100 t	7725.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G2 Excavator 3.5 to 7.0 cy	597.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G2 Finish Blade	134.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G2 Plant Operator	2476.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G2a Cranes 45 to 100 t	792.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G3 BH-Loader>3/4cy	1310.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G3 Loader >4cy	447.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G3a Cranes 45 t and under	1169.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G4 Dozer & Push Cat	1419.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G4 Grade Check	1482.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G4 Hvy Duty Mechanic	6.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G4 Scraper	808.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G4 Trim Machine	3.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G5 Compactor w-blade	269.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G5 Drilling & Boring Mach	1000.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G7 Roller, Compactor	171.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G6 Tractor	171.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G7 Oiler	1863.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Pile Driver Foreman	550.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Pile Driver Wharf and Dock	2200.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Teamster G1 Hwy ED<6cy, Flatbed	1553.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Teamster G2 Hwy ED 6-8cy, Water<7	1255.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Teamster G4 ED 25-65 Cy	11.8	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-30					
SF - Central - 31	Carpenter Apprentice	350.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Carpenter Foreman	7363.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Carpenter Journeyman	53266.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Cement Mason Foreman	1489.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Cement Mason Journeyman	5948.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Electrical Foreman	175.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Electrician Journeyman	600.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Iron Worker Foreman	8058.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Iron Worker Journeyman Rebar/Stru	49182.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Laborer Foreman	1203.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Laborer G1 Vibrator, Green Cutter	661.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Laborer G2 Concrete Laborer	10972.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Laborer G2 General	32075.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Laborer G3 Dumpman	33.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	OPERATING ENGINEER FOREMAN	8576.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	OPERATOR - MECHANIC	3524.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G1 Excavator >7CY	205.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G1a Cranes>100 t	4408.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G2 Excavator 3.5 to 7.0 cy	610.0	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 31	Operator G2 Finish Blade	215.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G3 BH-Loader>3/4cy	7727.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G2 Plant Operator	11973.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G2a Cranes 45 to 100 t	4283.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G3 Loader >4cy	4368.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G3a Cranes 45 t and under	4596.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G5 Concrete Pump	1380.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G4 Dozer & Push Cat	3925.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G4 Grade Check	7760.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G4 Hwy Duty Mechanic	132.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G5 Drilling & Boring Mach	200.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G5 Compactor w-blade	35.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G7 Oiler	8028.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Pile Driver Foreman	244.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Pile Driver Wharf and Dock	976.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Teamster G5 ED >65cy	1027.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Teamster G1 Hwy ED<6cy, Flatbed	8413.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Teamster G2 Hwy ED 6-8cy, Water<7	4262.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Teamster G3 Boom Truck	175.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Teamster G3 ED 8-24cy, Water>7mg;	17144.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Teamster G4 ED 25-65 Cy	610.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Teamster G4 Tractor, Lowbed/Trailer	401.9	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-31					
SF - Central - 32	Carpenter Apprentice	60.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Carpenter Foreman	980.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Carpenter Journeyman	3180.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Electrical Lineman	400.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Electrical Foreman	900.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Electrician Journeyman	2500.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Iron Worker Foreman	98.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Iron Worker Journeyman Rebar/Stru	508.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Iron Worker Rigger	518.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Laborer G2 Concrete Laborer	2481.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Laborer G2 General	1830.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Operator G1a Cranes>100 t	237.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Operator G3 BH-Loader>3/4cy	222.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Operator G2a Cranes 45 to 100 t	1018.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Operator G4a Boom truck<15 ton	616.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Operator G3a Cranes 45 t and under	616.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Pipefitter Apprentice	888.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Pipefitter Foreman	222.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Pipefitter Journeyman	2133.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Teamster G1 Hwy ED<6cy, Flatbed	734.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Teamster G4 Tractor, Lowbed/Trailer	222.2	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-32					
SF - Central - 33	Bullgang Foreman	800.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Bullgang Laborer	1600.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Carpenter	1892.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Carpenter Foreman	287.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Compactor Operator	648.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Grade Setter / Checker	324.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Grader Operator	324.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Dozer Operator	324.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Flagger	648.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Iron Worker	5000.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Flat Truck Driver	800.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	General Foreman	324.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	General Laborer	1772.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Hyd Crane Operator	2201.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Iron Worker Foreman	500.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Loader Operator	324.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Laborer G2 General	17040.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Mechanic / Welder	800.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Operating Engineer	5680.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Operator G2 Plant Operator	11360.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Operator G3 BH Loader	5680.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Operator G3a Crane	5680.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Operator G4 Grade Check	5680.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Operator G4 Heavy Duty Mechanic	5680.0	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-33					
SF - Central - 34	Bottomlander	257.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Bullgang Foreman	16.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Bullgang Laborer	33.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Carpenter Foreman	331.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Carpenter	1327.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Concrete Superintendent	3662.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Cost Engineer	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Crane Oiler	2248.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Dozer Operator	3090.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Electrical Superintendent	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	EMT	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Environmental Manager	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Equipment Superintendent	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Excavator Operator	423.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Field Engineer	5493.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Flat Truck Driver	16.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	General Foreman	1730.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	General Laborer	8847.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	General Superintendent	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Geotechnical Manager	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Grade Setter / Checker	3090.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Grader Operator	3090.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Hyd Crane Operator	1668.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Iron Worker	9556.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Iron Worker Foreman	1704.1	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 34	Lead Miner	728.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Loader Operator	1073.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Mechanic/Welder	1350.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Miner	6462.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Office Administrator	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Office Manager	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Project Engineer	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Project Manager	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	QC Manager	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	QC Technician	3662.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Runner	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Safety Engineer	14649.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Safety Manager	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Schedule Engineer	3662.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Shaft Crane Operator	2505.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Shift Engineers	14649.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Shifter	2413.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Survey Party Chief	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Survey Rod Man	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Toplander	1548.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Truck Driver	4009.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Tunnel Superintendent	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Tunnel Walkers	14649.6	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-34					
SF - Central - 35	Bottomlander	1283.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Bullgang Foreman	133.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Bullgang Laborer	800.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Concrete Pump Operator	307.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Crane Oiler	1869.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Electrician	1091.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Heavy Duty Mechanic Welder	133.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Hyd Crane Operator	654.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Iron Worker	4119.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Iron Worker Foreman	515.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Lead Miner	1379.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Master Mechanic	400.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Mechanic/Welder	1517.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Miner	9418.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Shaft Crane Operator	1923.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Shifter	1453.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Toplander	1790.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Truck Driver	1816.3	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-35					
SF - Central - 36	Bottomlander	7641.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Bullgang Foreman	6411.6	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Bullgang Laborer	21329.6	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Conveyor Belt Man	3916.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Crane Oiler	7641.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Dozer Operator	3833.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Electrician	9458.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Fanline Carrier Operator	4166.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Flat Truck Driver	2158.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Hyd Crane Operator	4650.0	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Lead Miner	4791.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Loader Operator	3833.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Man Transport Truck Operator	4253.2	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Master Mechanic	2088.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Mechanic/Welder	13700.0	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Miner	3650.0	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Operating Engineer	3833.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Operator G2 Plant Operator	3833.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Segment Carrier Operator	26666.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Shaft Crane Operator	7641.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Shifter	4791.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	TBM Operator	8500.0	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Toplander	7641.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Utility Truck Operator	4253.2	20	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-36					
SF - Central - 37	Bottomlander	865.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Bullgang Foreman	83.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Bullgang Laborer	500.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Crane Oiler	595.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Electrician	1545.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Forklift Operator	270.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Heavy Duty Mechanic Welder	83.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Hyd Crane Operator	679.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Lead Miner	865.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Master Mechanic	250.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Mechanic/Welder	1545.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Miner	3753.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Shaft Crane Operator	949.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Shifter	865.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Toplander	865.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Utility Truck Operator	145.0	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-37					
SF - Central - 38	Bottomlander	257.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Bullgang Foreman	16.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Bullgang Laborer	33.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Carpenter Foreman	331.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Carpenter	1327.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Compactor Operator	3090.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Concrete Superintendent	3662.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Cost Engineer	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Crane Oiler	2248.2	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 38	Dozer Operator	3090.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Electrical Superintendent	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	EMT	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Environmental Manager	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Equipment Superintendent	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Excavator Operator	423.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Field Engineer	5493.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Flat Truck Driver	16.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	General Foreman	1730.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	General Laborer	10577.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	General Superintendent	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Geotechnical Manager	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Grade Setter / Checker	3090.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Grader Operator	3090.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Hyd Crane Operator	1772.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Iron Worker	9556.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Iron Worker Foreman	1704.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Laborer G2 General	6399.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Lead Miner	833.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Loader Operator	1073.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Mechanic/Welder	683.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Miner	7296.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Office Administrator	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Office Manager	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Operating Engineer	2133.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Operator G2 Plant Operator	4266.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Operator G3 BH Loader	2133.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Operator G3a Crane	2133.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Operator G4 Grade Check	2133.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Operator G4 Heavy Duty Mechanic	2133.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Project Engineer	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Project Manager	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	QC Manager	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	QC Technician	3662.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Runner	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Safety Engineer	14649.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Safety Manager	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Schedule Engineer	2662.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Shaft Crane Operator	2505.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Shift Engineers	14649.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Shifter	2518.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Survey Party Chief	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Survey Rod Man	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Teamster G1 Hwy	2133.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Teamster G2 Hwy	2133.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Toplander	1548.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Truck Driver	4009.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Tunnel Superintendent	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Tunnel Walkers	14649.6	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-38					
SF - Central - 39	Bottomlander	1283.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Bulgang Foreman	133.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Bulgang Laborer	800.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Concrete Pump Operator	307.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Crane Oiler	1869.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Electrician	1091.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Heavy Duty Mechanic Welder	133.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Hyd Crane Operator	550.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Iron Worker	4119.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Iron Worker Foreman	515.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Lead Miner	1275.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Master Mechanic	400.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Mechanic/Welder	1517.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Miner	8583.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Shaft Crane Operator	1923.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Shifter	1349.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Toplander	1790.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Truck Driver	1821.3	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-39					
SF - Central - 40	Bottomlander	7650.8	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Bulgang Foreman	6341.1	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Bulgang Laborer	21191.1	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Conveyor Belt Man	3925.0	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Crane Oiler	7650.8	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Dozer Operator	3841.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Electrician	9466.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Fanline Carrier Operator	4166.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Flat Truck Driver	2086.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Hyd Crane Operator	4506.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Lead Miner	4800.0	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Loader Operator	3841.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Man Transport Truck Operator	4254.4	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Master Mechanic	2083.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Mechanic/Welder	15720.0	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Miner	36440.0	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Operating Engineer	3841.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Operator G2 Plant Operator	3841.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Segment Carrier Operator	26691.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Shaft Crane Operator	7650.8	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Shifter	5395.8	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	TBM Operator	8516.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Toplander	7650.8	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Utility Truck Operator	4254.4	20	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-40					
SF - Central - 41	Bottomlander	865.8	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 41	Bullgang Foreman	83.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Bullgang Laborer	500.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Crane Oiler	679.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Electrician	1545.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Forklift Operator	270.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Heavy Duty Mechanic Welder	83.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Hyd Crane Operator	679.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Lead Miner	865.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Master Mechanic	250.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Mechanic/Welder	1545.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Miner	3753.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Shaft Crane Operator	949.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Shifter	270.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Toplander	865.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Utility Truck Operator	145.0	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-41					
SF - Central - 42	Bullgang Foreman	400.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Bullgang Laborer	800.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Carpenter	252.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Carpenter Foreman	63.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Compactor Operator	3896.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Concrete Superintendent	8640.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Cost Engineer	17280.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Dozer Operator	3492.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Electrical Superintendent	17280.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	EMT	17280.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Environmental Manager	17280.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Equipment Superintendent	17280.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Field Engineer	12960.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Flagger	404.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Flat Truck Driver	400.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	General Foreman	202.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	General Laborer	404.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	General Superintendent	126.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Geotechnical Manager	17280.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Grade Setter / Checker	3694.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Grader Operator	3694.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Hyd Crane Operator	863.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Laborer G2 General	10641.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Loader Operator	202.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Mechanic/Welder	400.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Office Administrator	17280.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Office Manager	17280.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Operating Engineer	3547.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Operator G2 Plant Operator	7094.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Operator G3 BH Loader	3547.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Operator G3a Crane	3547.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Operator G4 Grade Check	3547.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Operator G4 Heavy Duty Mechanic	3547.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Project Engineer	17280.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Project Manager	17280.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	QC Manager	17280.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	QC Technician	8640.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Runner	17280.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Safety Engineer	34560.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Safety Manager	17280.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Schedule Engineer	8640.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Shift Engineers	34560.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Survey Party Chief	17280.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Survey Rod Man	17280.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Teamster G1 Hwywy	3547.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Teamster G2 Hwywy	3547.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Truck Driver	3492.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Tunnel Superintendent	17280.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Tunnel Walkers	34560.0	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-42					
SF - Central - 43	Bottomlander	257.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Bullgang Foreman	16.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Bullgang Laborer	33.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Carpenter Foreman	494.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Carpenter	2481.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Compactor Operator	244.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Crane Oiler	1972.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Dozer Operator	122.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Excavator Operator	423.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Flagger	244.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Flat Truck Driver	16.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	General Foreman	1771.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	General Laborer	9518.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Grade Setter / Checker	122.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Grader Operator	122.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Hyd Crane Operator	2230.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Iron Worker	13752.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Iron Worker Foreman	2043.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Lead Miner	752.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Loader Operator	1195.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Mechanic/Welder	1269.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Miner	6654.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Shaft Crane Operator	2229.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Shifter	2277.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Toplander	1432.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Truck Driver	1332.1	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-43					
SF - Central - 44	Bottomlander	737.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Concrete Pump Operator	251.2	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 44	Crane Oiler	1130.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Electrician	124.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Iron Worker	3335.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Iron Worker Foreman	417.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Lead Miner	767.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Mechanic Welder	865.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Miner	4519.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Shaft Crane Operator	1184.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Shifter	841.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Toplander	1184.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Truck Driver	338.3	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-44					
SF - Central - 45	Compactor Operator	3033.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	Dozer Operator	4404.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	General Foreman	18.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	Grade Setter / Checker	4367.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	Grader 16H - 16" Blade	36.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	Grader Operator	7437.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	Loader Operator	1334.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	Operator G4 Grade Check	18.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	Scraper Operator	73.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	Truck Driver	4367.6	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-45					
SF - Central - 46	Bottomlander	257.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Bullgang Foreman	100.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Bullgang Laborer	200.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Carpenter Foreman	390.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Carpenter	1801.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Compactor Operator	3585.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Crane Oiler	1938.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Dozer Operator	3585.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Excavator Operator	423.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Flat Truck Driver	100.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	General Foreman	1649.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	General Laborer	8566.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Grade Setter / Checker	3585.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Grader Operator	3585.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Hyd Crane Operator	1859.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Iron Worker	8762.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Iron Worker Foreman	1543.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Lead Miner	752.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Loader Operator	1073.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Mechanic/Welder	1353.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Miner	6654.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Shaft Crane Operator	2196.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Shifter	1690.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Toplander	1399.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Truck Driver	4653.8	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-46					
SF - Central - 47	Bottomlander	769.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Bullgang Foreman	133.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Bullgang Laborer	800.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Concrete Pump Operator	262.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Crane Oiler	1263.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Electrician	257.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Heavy Duty Mechanic Welder	133.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Hyd Crane Operator	133.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Iron Worker	3335.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Iron Worker Foreman	417.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Lead Miner	767.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Master Mechanic	400.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Mechanic/Welder	638.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Miner	4519.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Shaft Crane Operator	1317.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Shifter	841.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Toplander	1184.4	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-47					
SF - Central - 48	Bottomlander	40146.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Bullgang Foreman	28464.2	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Bullgang Laborer	94906.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Conveyor Belt Man	19848.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Crane Oiler	40146.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Dozer Operator	11666.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Electrician	40706.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Fanline Carrier Operator	18650.0	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Flat Truck Driver	9475.0	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Hyd Crane Operator	19700.0	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Master Mechanic	9325.0	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Lead Miner	23676.8	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Loader Operator	13066.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Mechanic/Welder	59506.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Miner	156323.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Operator G2 Plant Operator	11666.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Operating Engineer	11666.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Segment Carrier Operator	119933.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Shaft Crane Operator	40146.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Shifter	21140.0	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	TBM Operator	34046.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Toplander	40146.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Truck Driver	7127.5	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Utility Truck Operator	18989.2	20	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-48					
SF - Central - 49	Bottomlander	1387.5	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 49	Bullgang Foreman	166.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Bullgang Laborer	667.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Crane Oiler	679.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Electrician	2066.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Flat Truck Driver	83.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Forklift Operator	791.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Heavy Duty Mechanic Welder	83.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Hyd Crane Operator	846.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Lead Miner	1387.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Master Mechanic	250.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Mechanic/Welder	2150.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Miner	6883.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Shaft Crane Operator	1470.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Shifter	1387.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Toplander	1387.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Utility Truck Operator	666.7	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-49					
SF - Central - 50	Carpenter Apprentice	468.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 50	Carpenter Foreman	468.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 50	Electrical Foreman	234.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 50	Electrician Journeyman	468.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 50	Iron Worker Journeyman Rebar/Stru	936.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 50	Laborer G2 General	936.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 50	Millwright	468.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 50	Operator G2a Cranes 45 to 100 t	468.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 50	Teamster G3 Boom Truck	234.0	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-50					
SF - Central - 51	Carpenter Apprentice	400.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 51	Carpenter Foreman	400.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 51	Electrical Foreman	200.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 51	Electrician Journeyman	400.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 51	Iron Worker Journeyman Rebar/Stru	800.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 51	Laborer G2 General	800.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 51	Millwright	400.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 51	Operator G2a Cranes 45 to 100 t	400.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 51	Teamster G3 Boom Truck	200.0	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-51					
SF - Central - 52	Laborer G4 Clean-up	39389.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 52	OPERATING ENGINEER FOREMAN	19694.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 52	Operator G2 Micro Tunnel	2883.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 52	Operator G2 Plant Operator	16811.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 52	Operator G3 Loader >4cy	39389.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 52	Operator G4 Loader <4.1cy	5766.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 52	Operator G5 Concrete Pump	14428.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 52	Operator G7 Oiler	5265.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 52	Operator G8a Skidsteer <Bobcat 743	14428.8	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-52					
SF - Central - 53	Laborer G2 General	404.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 53	OPERATING ENGINEER FOREMAN	101.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 53	Operator G3 BH-Loader>3/4cy	101.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 53	Operator G4 Grade Check	101.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 53	Operator G5 Asphalt Roller	202.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 53	Operator G5 Paver	101.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 53	Teamster G2 Hwy ED 6-8cy, Water<7	50.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-53					
SF - Central - 54	Laborer G2 General	404.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 54	OPERATING ENGINEER FOREMAN	101.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 54	Operator G3 BH-Loader>3/4cy	101.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 54	Operator G4 Grade Check	101.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 54	Operator G5 Asphalt Roller	202.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 54	Operator G5 Paver	101.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 54	Teamster G2 Hwy ED 6-8cy, Water<7	50.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-54					
SF - Central - 55	Laborer G2 Concrete Laborer	600.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Laborer G2 General	280.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Laborer G3 Flagman	880.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	OPERATING ENGINEER FOREMAN	720.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Operator G2 Excavator 3.5 to 7.0 cy	1200.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Operator G2 Finish Blade	210.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Operator G3 Loader >4cy	40.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Operator G4 Dozer & Push Cat	3180.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Operator G4 Scraper	2000.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Operator G6 Tractor	640.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Teamster G2 Hwy ED 6-8cy, Water<7	4600.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Teamster G4 ED 25-65 Cy	200.0	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-55					

Marine Inventory for Southern Complex on Byron Tract - Central
Option 9

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Southern Complex on Byron Tract - Central
Option 9

Code	# day	Locomotive Type	From Depot Site	Delivery Depot	Rail Cars	Rail Cars/Day	Main Railroad	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
SF - Central - 5	21	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 6	184	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 7	260	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 9	245	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 10	91	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 11	315	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 12	799	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 13	964	Concrete and Bentonite	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 14	706	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 15B	400	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 16	179	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 17	37	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 18	34	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 19	383	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 20	826	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 22	269	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 23	201	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 24	181	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 26	1355	Cement, Aggregate, Sand, Flyash, B	Stockton	Southern Complex	2398	1.8	UPRR						
SF - Central - 27	1749	Soil Material	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 29	274	Riprap and Soil Material	Stockton	Southern Complex	27495	100.5	UPRR						
SF - Central - 30	186	Cement, Aggregate, Sand, Flyash, R	Stockton	Southern Complex	393	2.1	UPRR						
SF - Central - 31	559	Cement, Aggregate, Sand, Flyash, B	Stockton	Southern Complex	1538	2.8	UPRR						
SF - Central - 34	366	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 35	88	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 36	362	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 37	30	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 38	990	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 39	292	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 40	392	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 41	36	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 43	239	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 46	443	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 48	1458	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						

Helicopter Inventory for Southern Complex on Byron Tract - Central Option 9

For 36 new transmission towers along 8.3 miles of new 230 kV line

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
SF - Central 5			2		

Earthmoving/Paving Assumptions for Southern Complex on Byron Tract - Central
Option 9

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
SF - Central - 1		207									
SF - Central - 2		323									
SF - Central - 3		253		90891	359	238663	944				
SF - Central - 4		227		48121	212	100678	443			1403505	6179
SF - Central - 5	37.4	21	1.7			17550	819				
SF - Central - 7		260			0		0			296524.8	1140
SF - Central - 9		245		1170	5	5850	24				
SF - Central - 10		91				5206.5	57				
SF - Central - 11		315		83352	265	34199.7	109				
SF - Central - 12		799		292384.3	366						
SF - Central - 13		964		84986.5	88	5607.8	6				
SF - Central - 14		706		136890	194		0				
SF - Central - 15B		400		23947	60	27405.5	69				
SF - Central - 16		179				5284.5	30				
SF - Central - 17		37				795.6	21				
SF - Central - 18		34				1768	53				
SF - Central - 19		383				19620	51			262218.1	685
SF - Central - 20		826					0				
SF - Central - 22		269					0				
SF - Central - 23		201		150974	752	185339	923			126720	631
SF - Central - 24	921	181	5.1				0				
SF - Central - 25		445		2799678	6291	70220	158				
SF - Central - 26		1355				9774800	7214				
SF - Central - 27		1749									
SF - Central - 28		2190									
SF - Central - 29	3	274	0.01		0	344210	1258				
SF - Central - 30		186		61000	328	102835	554				
SF - Central - 31		559		154044	276	2000	4				
SF - Central - 32		136									
SF - Central - 33		256									
SF - Central - 34		366									
SF - Central - 35		88		117960.2	323	135982	372				
SF - Central - 36		362									
SF - Central - 37		30									
SF - Central - 38		990		117960.2	119	135982	137				
SF - Central - 39		292									
SF - Central - 40		392									
SF - Central - 42		1820				153677	84				
SF - Central - 43		239									
SF - Central - 44		91		103302.2	433						
SF - Central - 45		165		142727.9	865						
SF - Central - 46		443		99636.5	225	157769.5	356				
SF - Central - 48		1458		5057.5	3						
SF - Central - 49		70									
SF - Central - 50		40									
SF - Central - 51		39									
SF - Central - 53		11								431730	40295
SF - Central - 54		10								431730	43173
SF - Central - 55	376	210	1.8			983488	4683				

**Demolition Assumptions for Southern Complex on Byron Tract - Central
Option 9**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

**Construction Schedule for Southern Complex West of Byron Highway - South Delta Conv - Central & Eastern
Options 9A, 9B, 10A, 10B**

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Mobilization - Gravel Bedding, Formwork, Rebar, Concrete for Slabs	SDC - Central & Eastern - 1	6/25/2030	8/22/2030	53	5	10
Roads, Utilities, Construction Office, Shops, Other Structures	SDC - Central & Eastern - 2	6/25/2030	10/22/2030	90	5	10
Utility, Facility, and Plant Operations	SDC - Central & Eastern - 3	5/8/2030	4/24/2037	1815	5	10
Tunnel Outlet Excavation & Cofferdam	SDC - Central & Eastern - 4	5/8/2030	5/6/2031	259	5	10
South Delta Tunnel Outlet Structure Excavation, Sheet Piles, Forms	SDC - Central & Eastern - 5	5/8/2030	4/29/2031	252	5	10
Reception Shaft - East: Slurry Wall and Guide Wall	SDC - Central & Eastern - 6	5/7/2031	9/5/2031	88	5	10
Reception Shaft - East: Tremie Seal	SDC - Central & Eastern - 7	9/8/2031	9/19/2031	12	7	24
Reception Shaft - East: Dewater Shaft	SDC - Central & Eastern - 8	9/22/2031	9/26/2031	5	5	10
Reception Shaft - East: Tunnel Cradle	SDC - Central & Eastern - 9	9/29/2031	10/6/2031	5	5	10
Reception Shaft - East: Slurry Wall Breakout	SDC - Central & Eastern - 10	10/7/2031	10/31/2031	19	5	10
Reception Shaft - East: Assemble Shaft with Concrete	SDC - Central & Eastern - 11	10/27/2031	1/6/2032	52	5	10
Reception Shaft - West: Slurry Wall and Guide Wall	SDC - Central & Eastern - 12	7/10/2031	2/5/2032	151	5	10
Reception Shaft - West: Tremie Seal	SDC - Central & Eastern - 13	2/6/2032	2/19/2032	13	7	24
Reception Shaft - West: Dewater Shaft	SDC - Central & Eastern - 14	2/20/2032	2/26/2032	5	5	10
Reception Shaft - West: Tunnel Cradle	SDC - Central & Eastern - 15	2/27/2032	3/5/2032	6	5	10
Reception Shaft - West: Slurry Wall Breakout	SDC - Central & Eastern - 16	3/8/2032	4/1/2032	19	5	10
Reception Shaft - West: Assemble Shaft with Concrete	SDC - Central & Eastern - 17	4/2/2032	6/14/2032	54	5	10
Calif Aqueduct Div Channel Excavation and Earthwork	SDC - Central & Eastern - 18	5/8/2030	7/31/2031	322	5	10
Calif Aqueduct Control Structure: Cofferdam	SDC - Central & Eastern - 19	2/3/2031	1/1/2032	335	5	10
Calif Aqueduct Control Structure: Construct Concrete Slabs and Fram	SDC - Central & Eastern - 20	1/8/2032	12/24/2032	250	5	10
Calif Aqueduct Control Structure: Remove Cofferdam	SDC - Central & Eastern - 21	1/25/2033	4/15/2033	59	5	10
Calif Aqueduct Control Structure: Construct Walls	SDC - Central & Eastern - 22	5/25/2032	9/27/2032	90	5	10
Calif Aqueduct Control Structure: Weir and Bridge	SDC - Central & Eastern - 23	9/28/2032	12/3/2032	49	5	10
Calif Aqueduct Control Structure: Gates and Stoplogs	SDC - Central & Eastern - 24	2/3/2033	4/21/2033	56	5	10
South Delta Tunnel Outlet: Excavation	SDC - Central & Eastern - 25	6/1/2034	9/6/2035	331	5	10
South Delta Tunnel Outlet Structure: Construct Slabs and Walls	SDC - Central & Eastern - 26	8/6/2035	8/18/2036	271	5	10
South Delta Tunnel Outlet Building: Construct Slabs and Walls	SDC - Central & Eastern - 27	2/20/2036	1/30/2037	245	5	10
South Delta Tunnel Outlet Building: Gates and Stoplogs	SDC - Central & Eastern - 28	5/12/02036	2/25/2037	208	5	10
South Delta Tunnel Outlet Building: Remove Cofferdam and Construc	SDC - Central & Eastern - 29	8/4/2036	3/31/2037	172	5	10
Southern Complex West of Byron Highway: Site Restoration	SDC - Central & Eastern - 30	3/12/2037	6/9/2037	66	5	10
Jones PP Connector: Mobilization - Gravel Bedding, Formwork, Rebar, Concrete	SDC - Central & Eastern - 31	5/7/2031	1/25/2032	190	5	10
Jones PP Connector: Raise Shaft	SDC - Central & Eastern - 32	7/1/2031	10/20/2031	80	5	10
Jones PP Connector: Slurry Wall and Guide Wall	SDC - Central & Eastern - 33	7/2/2031	11/17/2031	99	5	10
Jones PP Connector: Excavate Shaft	SDC - Central & Eastern - 34	10/2/2031	1/15/2032	76	5	10
Jones PP Connector Reception Shaft: Tremie Sale	SDC - Central & Eastern - 35	1/16/2032	2/12/2032	28	7	24
Jones PP Connector Reception Shaft: Dewater Shaft	SDC - Central & Eastern - 36	2/13/2032	2/19/2032	7	7	24
Jones PP Connector Reception Shaft: Tunnel Cradle	SDC - Central & Eastern - 37	2/20/2032	5/11/2032	59	5	10
Jones PP Connector: TBM Assembly including Shaft Utilities	SDC - Central & Eastern - 38	4/19/2032	1/18/2033	193	5	10
Jones PP Connector: Tunneling Operations including Equipment Deliv	SDC - Central & Eastern - 39	4/14/2032	6/29/2033	379	6	20
Jones PP Connector: Remove TBM and Tunnel Equipment	SDC - Central & Eastern - 40	6/30/2033	12/25/2034	389	5	10
Jones PP Connector: Mangagement, Engineering, & Field Labor	SDC - Central & Eastern - 41	5/7/2031	12/25/2034	949	5	10
Jones PP Connector: Site Restoration	SDC - Central & Eastern - 42	1/27/2037	5/4/2037	70	5	10
Delta-Mendota Control Structure	SDC - Central & Eastern - 43	3/23/2034	6/17/2036	854	5	10

Total Site Acres

150

**Vehicle Inventory for Southern Complex West of Byron Highway - South Delta Conv - Central & Eastern
Options 9A, 9B, 10A, 10B**

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
SDC - Central & Eastern - 1	CAT D3 LGP, Dozer	Crawler Tractor	43.4	53	0.8	Diesel or Hybrid	76	0.43		
SDC - Central & Eastern - 1	CAT 950 H Wheel Loader	Rubber Tired Loaders	43.4	53	0.8	Diesel or Hybrid	130	0.36		
SDC - Central & Eastern - 1	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	43.4	53	0.8	Diesel	158	0.38		
SDC - Central & Eastern - 2	Air Compressor 185 cfm	Air Compressor	732.4	90	8.1	Diesel Tier 4	49	0.48		
SDC - Central & Eastern - 2	Boom Truck, 12.5 Tn Boom	Crane	366.2	90	4.1	Diesel or Hybrid	100	0.29		
SDC - Central & Eastern - 2	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	910	90	10.1	Diesel	110	0.36		
SDC - Central & Eastern - 2	CAT 14 M	Grader	130	90	1.4	Diesel	274	0.41		
SDC - Central & Eastern - 2	CAT 950 H Wheel Loader	Rubber Tired Loaders	910	90	10.1	Diesel or Hybrid	130	0.36		
SDC - Central & Eastern - 2	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	130	90	1.4	Diesel	158	0.38		
SDC - Central & Eastern - 2	CAT D6LGPDozer w winch	Crawler Tractor	130	90	1.4	Diesel or Hybrid	179	0.43		
SDC - Central & Eastern - 2	Compactor, Plate, 22" w x 35"	Plate Compactors	455	90	5.1	Diesel	8.5	0.43		
SDC - Central & Eastern - 2	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	366.2	90	4.1	Diesel	75	0.31		
SDC - Central & Eastern - 2	Water Pump, 4" Diesel	Pumps	130	90	1.4	Diesel	10	0.74		
SDC - Central & Eastern - 3	400A Diesel Welder, Trailer Mounted	Welders	45.9	1815	0.0	Diesel	22	0.45		
SDC - Central & Eastern - 3	Air Compressor 185 cfm	Air Compressor	156	1815	0.1	Diesel Tier 4	49	0.48		
SDC - Central & Eastern - 3	Boom Truck, 12.5 Tn Boom	Crane	78	1815	0.0	Diesel or Hybrid	100	0.29		
SDC - Central & Eastern - 3	CAT 14 M	Grader	28140	1815	15.5	Diesel	274	0.41		
SDC - Central & Eastern - 3	CAT 12 M	Grader	702	1815	0.4	Diesel	173	0.41		
SDC - Central & Eastern - 3	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	702	1815	0.4	Diesel	158	0.38		
SDC - Central & Eastern - 3	CAT LOADER/HOE 416 E	Rubber Tired Loaders	15533.7	1815	8.6	Diesel	78	0.36		
SDC - Central & Eastern - 3	CAT Forklift 5,500 LB	Aerial Lift	5980	1815	3.3	Diesel	63	0.31		
SDC - Central & Eastern - 3	Disk, Towed	Off Highway Tractor	1883.7	1815	1.0	Diesel	140	0.44		
SDC - Central & Eastern - 3	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	1883.7	1815	1.0	Diesel	80	0.44		
SDC - Central & Eastern - 3	Grove RT Crane 30T	Crane	4940	1815	2.7	Diesel	160	0.29		
SDC - Central & Eastern - 3	Grove RT Crane 55T, 247 hp	Crane	91.8	1815	0.1	Diesel	247	0.29		
SDC - Central & Eastern - 3	Grove RT Crane 80T, 275hp	Crane	156	1815	0.1	Diesel	275	0.29		
SDC - Central & Eastern - 3	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	156	1815	0.1	Diesel	75	0.31		
SDC - Central & Eastern - 3	Portable, 90 Kw, Diesel 158hp	Welders	45.9	1815	0.0	Diesel Tier 4	158	0.45		
SDC - Central & Eastern - 4	CAT D6LGPDozer w winch	Crawler Tractor	11418	259	44.1	Diesel or Hybrid	179	0.43		
SDC - Central & Eastern - 4	400A Diesel Welder, Trailer Mounted	Welders	1377.9	259	5.3	Diesel	22	0.45		
SDC - Central & Eastern - 4	Air Compressor 375 cfm	Air Compressor	1377.9	259	5.3	Diesel Tier 4	122	0.48		
SDC - Central & Eastern - 4	CAT 14 M	Grader	105.6	259	0.4	Diesel	274	0.41		
SDC - Central & Eastern - 4	CAT D3 LGP, Dozer	Crawler Tractor	211.3	259	0.8	Diesel or Hybrid	76	0.43		
SDC - Central & Eastern - 4	Grove RT Crane 55T, 247 hp	Crane	1377.9	259	44.1	Diesel	247	0.29		
SDC - Central & Eastern - 4	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	3367	259	13	Diesel	384	0.38		
SDC - Central & Eastern - 4	Manitowoc 555 150T, 250' Boom	Crane	1377.9	259	5.3	Diesel	760	0.29		
SDC - Central & Eastern - 4	Portable, 20 Kw, Diesel, 36HP	Welders	1377.9	259	5.3	Diesel Tier 4	36	0.45		
SDC - Central & Eastern - 4	Vibro Driver/Extractor V20B	Other Construction Eq	1377.9	259	5.3	Diesel	325	0.42		
SDC - Central & Eastern - 4	Water Pump, 3" Gas, Diaphragm	Pumps	1690	259	6.5	Gasoline	10	0.74		
SDC - Central & Eastern - 4	Well Drill	Bore/Drill Rigs	585	259	2.3	Diesel	136	0.5		
SDC - Central & Eastern - 5	400A Diesel Welder, Trailer Mounted	Welders	9833.2	252	39.0	Diesel	22	0.45		
SDC - Central & Eastern - 5	Air Compressor 375 cfm	Air Compressor	9833.2	252	39.0	Diesel Tier 4	122	0.48		
SDC - Central & Eastern - 5	CAT 14 M	Grader	3437.4	252	13.6	Diesel	274	0.41		
SDC - Central & Eastern - 5	Cat 613 C Self Loading Scraper	Scraper	349.3	252	1.4	Diesel	187	0.48		
SDC - Central & Eastern - 5	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	116.4	252	0.5	Diesel	158	0.38		
SDC - Central & Eastern - 5	CAT D6LGPDozer w winch	Crawler Tractor	405.1	252	1.6	Diesel or Hybrid	179	0.43		
SDC - Central & Eastern - 5	CAT D8Rii, Dozer w winch	Crawler Tractor	3321	252	13.2	Diesel	310	0.43		
SDC - Central & Eastern - 5	Disk, Towed	Off Highway Tractor		252	0.0	Diesel	140	0.44		
SDC - Central & Eastern - 5	Grove RT Crane 55T, 247 hp	Crane	9833.2	252	39.0	Diesel	247	0.29		
SDC - Central & Eastern - 5	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	86.1	252	0.3	Diesel	384	0.38		
SDC - Central & Eastern - 5	Manitowoc 555 150T, 250' Boom	Crane	9833.2	252	39.0	Diesel	760	0.29		
SDC - Central & Eastern - 5	Pile Hammer D62-22, Single 165k Ft-LB, Diesel,	Other Construction Eq	9833.2	252	39.0	Diesel	300	0.42		
SDC - Central & Eastern - 5	Portable, 20 Kw, Diesel, 36HP	Welders	9833.2	252	39.0	Diesel Tier 4	36	0.74		
SDC - Central & Eastern - 5	Vibro Driver/Extractor V20B	Other Construction Eq	9833.2	252	39.0	Diesel	325	0.42		
SDC - Central & Eastern - 6	1600 CFM Compressor Diesel	Air Compressor	243.2	88	2.8	Diesel Tier 4	540	0.74		
SDC - Central & Eastern - 6	250 CFM Compressor Diesel	Air Compressor	250	88	2.8	Diesel Tier 3	75	0.74		
SDC - Central & Eastern - 6	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	505.4	88	5.7	Diesel or Hybrid	130	0.36		
SDC - Central & Eastern - 6	CAT Forklift 5,500 LB	Aerial Lift	17.4	88	0.2	Diesel	63	0.31		
SDC - Central & Eastern - 6	CAT Hyd Excavator 1CY	Excavator	279.6	88	3.2	Diesel	138	0.38		
SDC - Central & Eastern - 6	Hydraulic 40 Ton Crane	Crane	17.4	88	0.2	Diesel	300	0.29		
SDC - Central & Eastern - 6	Hydraulic 55 Ton Crane	Crane	486.4	88	5.5	Diesel	350	0.29		
SDC - Central & Eastern - 6	Hydraulic 9 Ton Crane	Crane	17.4	88	0.2	Diesel	85	0.29		
SDC - Central & Eastern - 6	Manitowoc 777 200 Ton Crane	Crane	751.6	88	8.5	Diesel	760	0.29		
SDC - Central & Eastern - 6	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	243.2	88	3	Diesel	8	0.56		
SDC - Central & Eastern - 6	Slurry Wall Techniwell	Pumps	243.2	88	3	Diesel	500	0.74		
SDC - Central & Eastern - 7	Hydraulic 25 Ton Crane	Crane	83	12	6.9	Diesel	100	0.29		
SDC - Central & Eastern - 7	Hydraulic 40 Ton Crane	Crane	39.1	12	3.3	Diesel	300	0.29		
SDC - Central & Eastern - 7	Manitowoc 777 200 Ton Crane	Crane	120.5	12	10.0	Diesel	760	0.29		
SDC - Central & Eastern - 8	Dewater Pump 6"	Pump	434.3	5	87	Diesel	50	0.74		
SDC - Central & Eastern - 8	150 KW Diesel Generator	Generator	108.6	5	22	Diesel Tier 4	183	0.74		
SDC - Central & Eastern - 8	Hydraulic 15 Ton Crane	Crane	108.6	5	22	Diesel	100	0.29		
SDC - Central & Eastern - 9	250 CFM Compressor Diesel	Air Compressor	8.9	5	1.8	Diesel Tier 3	75	0.74		
SDC - Central & Eastern - 9	Manitowoc 777 200 Ton Crane	Crane	38.6	5	7.7	Diesel	760	0.29		
SDC - Central & Eastern - 10	250 CFM Compressor Diesel	Air Compressor	255.7	19	13.5	Diesel Tier 3	75	0.74		
SDC - Central & Eastern - 10	Manitowoc 777 200 Ton Crane	Crane	255.7	19	13.5	Diesel	760	0.29		
SDC - Central & Eastern - 11	250 CFM Compressor Diesel	Air Compressor	387.6	52	7.5	Diesel Tier 3	75	0.74		
SDC - Central & Eastern - 11	Manitowoc 777 200 Ton Crane	Crane	110.7	52	2.1	Diesel	760	0.29		
SDC - Central & Eastern - 11	Manitowoc 999-275 Ton Crane	Crane	276.9	52	5.3	Diesel	900	0.29		
SDC - Central & Eastern - 12	1600 CFM Compressor Diesel	Air Compressor	243.2	151	1.6	Diesel Tier 4	540	0.74		
SDC - Central & Eastern - 12	250 CFM Compressor Diesel	Air Compressor	21	151	0.1	Diesel Tier 3	75	0.74		
SDC - Central & Eastern - 12	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	505.4	151	3.3	Diesel or Hybrid	130	0.36		
SDC - Central & Eastern - 12	CAT Forklift 5,500 LB	Aerial Lift	17.4	151	0.1	Diesel	63	0.31		
SDC - Central & Eastern - 12	CAT Hyd Excavator 1CY	Excavator	279.6	151	1.9	Diesel	138	0.38		
SDC - Central & Eastern - 12	Hydraulic 40 Ton Crane	Crane	17.4	151	0.1	Diesel	300	0.29		
SDC - Central & Eastern - 12	Hydraulic 55 Ton Crane	Crane	486.4	151	3.2	Diesel	350	0.29		

SDC - Central & Eastern - 12	Hydraulic 9 Ton Crane	Crane	17.4	151	0.1	Diesel	85	0.29
SDC - Central & Eastern - 12	Hydraulic Excavator to 3.5 tons = Kobelco SK485LC' 2.75cy' 345 hp Excavator	Excavator	255.7	151	1.7	Diesel	345	0.38
SDC - Central & Eastern - 12	Manitowoc 777 200 Ton Crane	Crane	751.6	151	5.0	Diesel	760	0.29
SDC - Central & Eastern - 12	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	243.2	151	2	Diesel	8	0.56
SDC - Central & Eastern - 12	Slurry Wall Techniwell	Pumps	243.2	151	2	Diesel	500	0.74
SDC - Central & Eastern - 13	Hydraulic 25 Ton Crane	Crane	83	13	6.4	Diesel	100	0.29
SDC - Central & Eastern - 13	Hydraulic 40 Ton Crane	Crane	39.1	13	3.0	Diesel	300	0.29
SDC - Central & Eastern - 13	Manitowoc 777 200 Ton Crane	Crane	120.5	13	9.3	Diesel	760	0.29
SDC - Central & Eastern - 14	Dewater Pump 6"	Pump	434.3	5	87	Diesel	50	0.74
SDC - Central & Eastern - 14	150 KW Diesel Generator	Generator	108.6	5	22	Diesel Tier 4	183	0.74
SDC - Central & Eastern - 14	Hydraulic 15 Ton Crane	Crane	108.6	5	22	Diesel	100	0.29
SDC - Central & Eastern - 15	250 CFM Compressor Diesel	Air Compressor	8.9	6	1.5	Diesel Tier 3	75	0.74
SDC - Central & Eastern - 15	Manitowoc 777 200 Ton Crane	Crane	38.6	6	6.4	Diesel	760	0.29
SDC - Central & Eastern - 16	250 CFM Compressor Diesel	Air Compressor	458.7	19	24.1	Diesel Tier 3	75	0.74
SDC - Central & Eastern - 16	Manitowoc 777 200 Ton Crane	Crane	458.7	19	24.1	Diesel	760	0.29
SDC - Central & Eastern - 17	250 CFM Compressor Diesel	Air Compressor	538.1	54	10.0	Diesel Tier 3	75	0.74
SDC - Central & Eastern - 17	Manitowoc 777 200 Ton Crane	Crane	110.7	54	2.1	Diesel	760	0.29
SDC - Central & Eastern - 17	Manitowoc 999-275 Ton Crane	Crane	427.3	54	7.9	Diesel	900	0.29
SDC - Central & Eastern - 18	Boom Truck, 12.5 Tn Boom	Crane	650	322	2.0	Diesel or Hybrid	100	0.29
SDC - Central & Eastern - 18	CAT 14 M	Grader	610.6	322	1.9	Diesel	274	0.41
SDC - Central & Eastern - 18	CAT 12 M	Grader	427.4	322	1.3	Diesel	173	0.41
SDC - Central & Eastern - 18	CAT 962 H Wheel Loader	Rubber Tired Loader	79.7	322	0.2	Diesel	230	0.36
SDC - Central & Eastern - 18	CAT CS-74, Roller, 17 tn, 156 HP	Rollers	79.7	322	0.2	Diesel	156	0.38
SDC - Central & Eastern - 18	CAT D6LGPDozer w winch	Crawler Tractor	11887.7	322	36.9	Diesel or Hybrid	179	0.43
SDC - Central & Eastern - 18	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	2442.5	322	7.6	Diesel	345	0.38
SDC - Central & Eastern - 18	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	3594.3	322	11.2	Diesel	384	0.38
SDC - Central & Eastern - 18	Manitowoc 555 150T, 250' Boom	Crane	250	322	0.8	Diesel	760	0.29
SDC - Central & Eastern - 18	Water Pump, 4" Diesel	Pumps	5569.7	322	17.3	Diesel	10	0.74
SDC - Central & Eastern - 19	400A Diesel Welder, Trailer Mounted	Welders	1905	335	5.7	Diesel	22	0.45
SDC - Central & Eastern - 19	Air Compressor 375 cfm	Air Compressor	1905	335	5.7	Diesel Tier 4	122	0.48
SDC - Central & Eastern - 19	CAT 12 M	Grader	1036.3	335	3.1	Diesel	173	0.41
SDC - Central & Eastern - 19	CAT 14 M	Grader	1820.3	335	5.4	Diesel	274	0.41
SDC - Central & Eastern - 19	CAT 973 Track Loader, 4.2 cy, 263hp	Skid Loader	665.3	335	2.0	Diesel or Hybrid	210	0.37
SDC - Central & Eastern - 19	CAT D6LGPDozer w winch	Crawler Tractor	6865.6	335	20.5	Diesel or Hybrid	179	0.43
SDC - Central & Eastern - 19	CAT D8Rii, Dozer w winch	Crawler Tractor	1704.8	335	5.1	Diesel	310	0.43
SDC - Central & Eastern - 19	Cat 613 C Self Loading Scraper	Scraper	179.1	335	0.5	Diesel	187	0.48
SDC - Central & Eastern - 19	Disk, Towed	Off Highway Tractor	5276.8	335	15.8	Diesel	140	0.44
SDC - Central & Eastern - 19	Grove RT Crane 55T, 247 hp	Crane	2570.3	335	7.7	Diesel	247	0.29
SDC - Central & Eastern - 19	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	4505.2	335	13.4	Diesel	345	0.38
SDC - Central & Eastern - 19	Manitowoc 555 150T, 250' Boom	Crane	2570.3	335	7.7	Diesel	760	0.29
SDC - Central & Eastern - 19	Pile Hammer D62-22, Single 165k Ft-LB, Diesel,	Other Construction Eq	1905	335	5.7	Diesel	300	0.42
SDC - Central & Eastern - 19	Portable, 20 Kw, Diesel, 36HP	Welders	1905	335	5.7	Diesel Tier 4	36	0.45
SDC - Central & Eastern - 19	Pile Hammer,Vulcan, Single 50k Ft-LB w Con	Other Construction Eq	665.3	335	2.0	Diesel	210	0.42
SDC - Central & Eastern - 19	Vibro Driver/Extractor V208	Other Construction Eq	1905	335	5.7	Diesel	325	0.42
SDC - Central & Eastern - 20	400A Diesel Welder, Trailer Mounted	Welders	3012.1	250	12.0	Diesel	22	0.45
SDC - Central & Eastern - 20	Air Compressor 375 cfm	Air Compressor	490.1	250	2.0	Diesel Tier 4	122	0.48
SDC - Central & Eastern - 20	Air Compressor 1600 cfm	Air Compressor	1506.1	250	6.0	Diesel Tier 4	540	0.48
SDC - Central & Eastern - 20	Boom Truck, 12.5 Tn Boom	Crane	462	250	1.8	Diesel or Hybrid	100	0.29
SDC - Central & Eastern - 20	CAT 14 M	Grader	108.9	250	0.4	Diesel	274	0.41
SDC - Central & Eastern - 20	CAT 311, 0.69 cy, 70 hp	Excavator	80.7	250	0.3	Diesel	70	0.38
SDC - Central & Eastern - 20	CAT 320D, 1.56 cy, 153 hp	Excavator	158.8	250	0.6	Diesel	138	0.38
SDC - Central & Eastern - 20	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	270.2	250	1.1	Diesel or Hybrid	130	0.36
SDC - Central & Eastern - 20	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	108.9	250	0.4	Diesel	158	0.38
SDC - Central & Eastern - 20	CAT D6LGPDozer w winch	Crawler Tractor	119.2	250	0.5	Diesel or Hybrid	179	0.43
SDC - Central & Eastern - 20	Compactor, Plate, 22" w x 35"	Plate Compactor	97.2	250	0.4	Diesel	8.5	0.43
SDC - Central & Eastern - 20	Concrete Vibrator, 2"	Other Construction Eq	10612.8	250	42.5	Gasoline	3	0.42
SDC - Central & Eastern - 20	Grove RT Crane 55T, 247 hp	Crane	1248.7	250	5.0	Diesel	247	0.29
SDC - Central & Eastern - 20	Manitowoc 555 150T, 250' Boom	Crane	1273.7	250	5.1	Diesel	760	0.29
SDC - Central & Eastern - 20	Manitowoc 999-275 Ton Crane	Crane	232.3	250	0.9	Diesel	900	0.29
SDC - Central & Eastern - 20	Portable, 90 Kw, Diesel, 158HP	Welders	1506.1	250	6.0	Diesel Tier 4	158	0.45
SDC - Central & Eastern - 20	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	786.8	250	3.1	Diesel Tier 4	210	0.38
SDC - Central & Eastern - 21	400A Diesel Welder, Trailer Mounted	Welders	396.9	59	6.7	Diesel	22	0.45
SDC - Central & Eastern - 21	Air Compressor 375 cfm	Air Compressor	396.9	59	6.7	Diesel Tier 4	122	0.48
SDC - Central & Eastern - 21	Compactor, Plate, 22" w x 35"	Plate Compactor	1068.9	59	18.1	Diesel	8.5	0.43
SDC - Central & Eastern - 21	Compactor, Trench Roller, Vib 32" w	Rollers	534.5	59	9.1	Diesel	20	0.38
SDC - Central & Eastern - 21	Grove RT Crane 55T, 247 hp	Crane	388.9	59	6.6	Diesel	247	0.29
SDC - Central & Eastern - 21	Manitowoc 555 150T, 250' Boom	Crane	396.9	59	6.7	Diesel	760	0.29
SDC - Central & Eastern - 21	Portable, 20 Kw, Diesel, 36HP	Welders	396.9	59	6.7	Diesel Tier 4	36	0.74
SDC - Central & Eastern - 21	Vibro Driver/Extractor V208	Other Construction Eq	396.9	59	6.7	Diesel	325	0.42
SDC - Central & Eastern - 22	400A Diesel Welder, Trailer Mounted	Welders	1333.4	90	14.8	Diesel	22	0.45
SDC - Central & Eastern - 22	Air Compressor 375 cfm	Air Compressor	6.4	90	0.1	Diesel Tier 4	122	0.48
SDC - Central & Eastern - 22	Air Compressor 1600 cfm	Air Compressor	666.7	90	7.4	Diesel Tier 4	540	0.48
SDC - Central & Eastern - 22	Concrete Vibrator, 2"	Other Construction Eq	5333.7	90	59.3	Gasoline	3	0.42
SDC - Central & Eastern - 22	Manitowoc 555 150T, 250' Boom	Crane	666.7	90	7.4	Diesel	760	0.29
SDC - Central & Eastern - 22	Portable, 90 Kw, Diesel, 158HP	Welders	666.7	90	7.4	Diesel Tier 4	158	0.45
SDC - Central & Eastern - 22	Water Pump, 4" Diesel	Pumps	666.7	90	7.4	Diesel	10	0.74
SDC - Central & Eastern - 23	400A Diesel Welder, Trailer Mounted Air Compressor 1600 cfm	Welders	233.6	49	4.8	Diesel	22	0.45
SDC - Central & Eastern - 23		Air Compressor	116.8	49	2.4	Diesel Tier 4	540	0.48
SDC - Central & Eastern - 23	Concrete Vibrator, 2"	Other Construction Eq	778.5	49	15.9	Gasoline	3	0.42
SDC - Central & Eastern - 23	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	2391.6	49	48.8	Diesel	384	0.38
SDC - Central & Eastern - 23	Manitowoc 555 150T, 250' Boom	Crane	116.8	49	2.4	Diesel	760	0.29
SDC - Central & Eastern - 23	Portable, 90 Kw, Diesel, 158HP Water Pump, 4" Diesel	Welders	116.8	49	2.4	Diesel Tier 4	158	0.45
SDC - Central & Eastern - 23		Pumps	116.8	49	2.4	Diesel	10	0.74
SDC - Central & Eastern - 24	400A Diesel Welder, Trailer Mounted	Welders	1241	56	22.2	Diesel	22	0.45
SDC - Central & Eastern - 24	Grove RT Crane 55T, 247 hp	Crane	368	56	6.6	Diesel	247	0.29
SDC - Central & Eastern - 25	400A Diesel Welder, Trailer Mounted Air Compressor 1600 cfm	Welders	457.8	331	1.4	Diesel	22	0.45
SDC - Central & Eastern - 25		Air Compressor	228.9	331	0.7	Diesel Tier 4	540	0.48
SDC - Central & Eastern - 25	CAT 320D, 1.56 cy, 153 hp	Excavator	150	331	<1	Diesel	138	0.38
SDC - Central & Eastern - 25	CAT 950 H Wheel Loader	Rubber Tired Loaders	103.2	331	0.3	Diesel or Hybrid	130	0.36

SDC - Central & Eastern - 25	CAT 973 Track Loader, 4.2 cy, 263hp	Skid Loader	786.9	331	2.4	Diesel or Hybrid	210	0.37
SDC - Central & Eastern - 25	CAT D6LGPDozer w winch	Crawler Tractor	10186.9	331	30.8	Diesel or Hybrid	179	0.43
SDC - Central & Eastern - 25	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	5093.5	331	15.4	Diesel	384	0.48
SDC - Central & Eastern - 25	Manitowoc 555 150T, 250' Boom	Crane	786.9	331	2.4	Diesel	760	0.29
SDC - Central & Eastern - 25	Manitowoc 999-275 Ton Crane	Crane	228.9	331	0.7	Diesel	900	0.29
SDC - Central & Eastern - 25	Pile Hammer, Vulcan, Single 50k Ft-LB w Con	Other Construction Eq	786.9	331	2.4	Diesel	210	0.42
SDC - Central & Eastern - 25	Portable, 90 Kw, Diesel, 158HP	Welders	228.9	331	0.7	Diesel Tier 4	158	0.45
SDC - Central & Eastern - 26	400A Diesel Welder, Trailer Mounted	Welders	12846.4	271	47.4	Diesel	22	0.45
SDC - Central & Eastern - 26	Air Compressor 1600 cfm	Air Compressor	6423.2	271	23.7	Diesel Tier 4	540	0.48
SDC - Central & Eastern - 26	Air Compressor 375 cfm	Air Compressor	950.4	271	3.5	Diesel Tier 4	122	0.48
SDC - Central & Eastern - 26	CAT 311, 0.69 cy, 70 hp	Excavator	31.6	271	0.1	Diesel	70	0.38
SDC - Central & Eastern - 26	CAT 950 H Wheel Loader	Rubber Tired Loaders	15.8	271	0.1	Diesel or Hybrid	130	0.36
SDC - Central & Eastern - 26	Compactor, Plate, 22"w x 35"	Plate Compactors	63.2	271	0.2	Diesel	8.5	0.43
SDC - Central & Eastern - 26	Concrete Vibrator, 2"	Other Construction Eq	44263.8	271	163.3	Gasoline	3	0.42
SDC - Central & Eastern - 26	Manitowoc 555 150T, 250' Boom	Crane	6082.8	271	22.4	Diesel	760	0.29
SDC - Central & Eastern - 26	Manitowoc 999-275 Ton Crane	Crane	340.3	271	1.3	Diesel	900	0.29
SDC - Central & Eastern - 27	Portable, 90 Kw, Diesel, 158HP	Welders	6423.2	245	26.2	Diesel Tier 4	158	0.45
SDC - Central & Eastern - 27	400A Diesel Welder, Trailer Mounted	Welders	1179.8	245	4.8	Diesel	22	0.45
SDC - Central & Eastern - 27	Air Compressor 1600 cfm	Air Compressor	12.1	245	0.0	Diesel Tier 4	540	0.48
SDC - Central & Eastern - 27	CAT 12 M	Grader	645.9	245	2.6	Diesel	173	0.41
SDC - Central & Eastern - 27	CAT D6LGPDozer w winch	Crawler Tractor	5714.9	245	23.3	Diesel or Hybrid	179	0.43
SDC - Central & Eastern - 27	CAT IT28H, 10640 LB Tool Carrier	Rubber Tired Loaders	288.9	245	1.2	Diesel	145	0.36
SDC - Central & Eastern - 27	Compactor, Plate, 22"w x 35"	Plate Compactors	9394.3	245	38.3	Diesel	8.5	0.43
SDC - Central & Eastern - 27	Compactor, Trench Roller, Vib 32"w	Rollers	3131.4	245	12.8	Diesel	20	0.38
SDC - Central & Eastern - 27	Concrete Vibrator, 2"	Other Construction Eq	3012.5	245	12.3	Gasoline	3	0.42
SDC - Central & Eastern - 27	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	2583.4	245	10.5	Diesel	345	0.38
SDC - Central & Eastern - 27	Manitowoc 555 150T, 250' Boom	Crane	301	245	1.2	Diesel	760	0.29
SDC - Central & Eastern - 27	Portable, 90 Kw, Diesel, 158HP	Welders	12.1	245	0.0	Diesel Tier 4	158	0.45
SDC - Central & Eastern - 28	400A Diesel Welder, Trailer Mounted	Welders	2844.4	208	13.7	Diesel	22	0.45
SDC - Central & Eastern - 28	Air Compressor 185 cfm	Air Compressor	379.6	208	1.8	Diesel Tier 4	49	0.48
SDC - Central & Eastern - 28	Boom Truck, 12.5 Tn Boom	Crane	530.5	208	2.6	Diesel or Hybrid	100	0.29
SDC - Central & Eastern - 27	Concrete Vibrator, 2"	Other Construction Eq	24.3	208	0.1	Gasoline	3	0.42
SDC - Central & Eastern - 27	Grove RT Crane 30T	Crane	379.6	208	1.8	Diesel	160	0.29
SDC - Central & Eastern - 28	Grove RT Crane 80T, 275hp	Crane	990	208	4.8	Diesel	275	0.29
SDC - Central & Eastern - 28	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	379.6	208	1.8	Diesel	75	0.31
SDC - Central & Eastern - 29	400A Diesel Welder, Trailer Mounted	Welders	2335.7	172	13.6	Diesel	22	0.45
SDC - Central & Eastern - 29	Air Compressor 375 cfm	Air Compressor	2335.7	172	13.6	Diesel Tier 4	122	0.48
SDC - Central & Eastern - 29	Grove RT Crane 55T, 247 hp	Crane	2288.9	172	13.3	Diesel	247	0.29
SDC - Central & Eastern - 29	Manitowoc 555 150T, 250' Boom	Crane	2335.7	172	13.6	Diesel	760	0.29
SDC - Central & Eastern - 29	Portable, 20 Kw, Diesel, 36HP	Welders	2335.7	172	13.6	Diesel Tier 4	36	0.45
SDC - Central & Eastern - 29	Vibro Driver/Extractor V20B	Other Construction Eq	2335.7	172	13.6	Diesel	325	0.42
SDC - Central & Eastern - 30	CAT 12 M	Grader	40	66	0.6	Diesel	173	0.41
SDC - Central & Eastern - 30	CAT 631G Scraper, Conventional	Scraper	240	66	3.6	Diesel	515	0.48
SDC - Central & Eastern - 30	CAT 966 Gil Wheel Loader	Rubber Tired Loaders	20	66	0.3	Diesel	286	0.36
SDC - Central & Eastern - 30	CAT D8Ril, Dozer w winch	Crawler Tractor	230	66	3.5	Diesel	310	0.43
SDC - Central & Eastern - 30	CAT D9R, Dozer w ripper	Crawler Tractor	450	66	6.8	Diesel	410	0.43
SDC - Central & Eastern - 30	CAT LOADER/HOE 416 E	Rubber Tired Loaders	234	66	3.5	Diesel	78	0.36
SDC - Central & Eastern - 30	Disk, Towed	Off Highway Tractor	40	66	0.6	Diesel	140	0.44
SDC - Central & Eastern - 30	Farm Tractor, All Wheel Drive, 285 HP	Off Highway Tractor	110	66	1.7	Diesel	285	0.44
SDC - Central & Eastern - 30	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	20	66	0.3	Diesel	80	0.44
SDC - Central & Eastern - 31	400A Diesel Welder, Trailer Mounted	Welders	265	190	1.4	Diesel	22	0.45
SDC - Central & Eastern - 31	Air Compressor 185 cfm	Air Compressor	141	190	0.7	Diesel Tier 4	49	0.48
SDC - Central & Eastern - 31	Air Compressor 375 CFM	Air Compressor	265	190	1.4	Diesel Tier 4	122	0.48
SDC - Central & Eastern - 31	Boom Truck, 12.5 Tn Boom	Crane	70	190	0.4	Diesel or Hybrid	100	0.29
SDC - Central & Eastern - 31	Case 590 SupN Loader/Hoe, 110 hp	Plate Compactor	175	190	0.9	Diesel	110	0.36
SDC - Central & Eastern - 31	CAT 14 M	Grader	45	190	0.2	Diesel	274	0.41
SDC - Central & Eastern - 31	Cat 613 C Self Loading Scraper	Scraper	50	190	0.3	Diesel	187	0.48
SDC - Central & Eastern - 31	CAT 825, Roller	Roller	324	190	1.7	Diesel	315	0.38
SDC - Central & Eastern - 31	CAT 950 H Wheel Loader	Rubber Tired Loaders	183	190	1.0	Diesel or Hybrid	130	0.36
SDC - Central & Eastern - 31	CAT 980 H Wheel Loader	Rubber Tired Loader	324	190	1.7	Diesel	393	0.36
SDC - Central & Eastern - 31	CAT CB-634D Vibratory 84"	Rollers	324	190	1.7	Diesel	145	0.38
SDC - Central & Eastern - 31	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	33	190	0.2	Diesel	158	0.38
SDC - Central & Eastern - 31	CAT D3 LGP, Dozer	Crawler Tractor	49	190	0.3	Diesel or Hybrid	76	0.43
SDC - Central & Eastern - 31	CAT D6LGPDozer w winch	Crawler Tractor	1788	190	9.4	Diesel or Hybrid	179	0.43
SDC - Central & Eastern - 31	CAT D8 Dozer	Crawler Tractor	324	190	1.7	Diesel	328	0.43
SDC - Central & Eastern - 31	CAT Forklift 5,500 LB	Aerial Lift	400	190	2.1	Diesel	63	0.31
SDC - Central & Eastern - 31	CAT Grader 16H	Graders	324	190	1.7	Diesel	285	0.41
SDC - Central & Eastern - 31	CAT IT28H, 10640 LB Tool Carrier	Rubber Tired Loaders	41	190	0.2	Diesel	145	0.36
SDC - Central & Eastern - 31	Compactor, Plate, 22"w x 35"	Plate Compactor	88	190	0.5	Diesel	8.5	0.43
SDC - Central & Eastern - 31	Grove RT Crane 55T, 247 hp	Crane	265	190	1.4	Diesel	247	0.29
SDC - Central & Eastern - 31	Hydraulic 40 Ton Crane	Crane	400	190	2.1	Diesel	300	0.29
SDC - Central & Eastern - 31	Hydraulic 9 Ton Crane	Crane	1001	190	5.3	Diesel	85	0.29
SDC - Central & Eastern - 31	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	861	190	4.5	Diesel	384	0.38
SDC - Central & Eastern - 31	Manitowoc 555 150T, 250' Boom	Crane	265	190	1.4	Diesel	760	0.29
SDC - Central & Eastern - 31	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	70	190	0.4	Diesel	75	0.31
SDC - Central & Eastern - 31	Pile Hammer D62-22, Single 165k Ft-LB, Dies	Other Construction Eq	265	190	1.4	Diesel	300	0.42
SDC - Central & Eastern - 31	Portable, 20 Kw, Diesel, 36HP	Welders	265	190	1.4	Diesel Tier 4	36	0.74
SDC - Central & Eastern - 31	Vibro Driver/Extractor V20B	Other Construction Eq	265	190	1.4	Diesel	325	0.42
SDC - Central & Eastern - 31	Water Pump, 4" Diesel	Pumps	25	190	0.1	Diesel	10	0.74
SDC - Central & Eastern - 31	Water Pump, 3" Gas, Diaphragm	Pumps	325	190	1.7	Gasoline	10	0.74
SDC - Central & Eastern - 31	Well Drill	Bore/Drill Rigs	113	190	0.6	Diesel	136	0.5
SDC - Central & Eastern - 32	CAT CB-634D Vibratory 84"	Rollers	5360	80	67	Diesel	145	0.38
SDC - Central & Eastern - 32	CAT D8 Dozer	Crawler Tractor	560	80	7	Diesel	328	0.43
SDC - Central & Eastern - 32	CAT 14 M	Graders	560	80	7	Diesel	274	0.41
SDC - Central & Eastern - 32	CAT Grader 16H	Graders	3090	80	38.6	Diesel	285	0.41
SDC - Central & Eastern - 32	Cat 613 C Self Loading Scraper	Scraper	40	80	0.5	Diesel	187	0.48
SDC - Central & Eastern - 32	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	13	80	0.2	Diesel	158	0.38
SDC - Central & Eastern - 32	CAT D6LGPDozer w winch	Crawler Tractor	1202	80	15.0	Diesel or Hybrid	179	0.43
SDC - Central & Eastern - 32	CAT D8Ril, Dozer w winch	Crawler Tractor	383	80	4.4	Diesel	310	0.43
SDC - Central & Eastern - 32	Disk, Towed	Off Highway Tractor	1155	80	14.8	Diesel	80	0.44
SDC - Central & Eastern - 32	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	10	80	0.1	Diesel	384	0.38
SDC - Central & Eastern - 33	400A Diesel Welder, Trailer Mounted	Welders	1891	99	19.1	Diesel	22	0.45
SDC - Central & Eastern - 33	Air Compressor 375 CFM	Air Compressor	1891	99	19.1	Diesel Tier 4	122	0.48
SDC - Central & Eastern - 33	1600 CFM Compressor Diesel	Air Compressor	530.4	99	5.4	Diesel Tier 4	540	0.74
SDC - Central & Eastern - 33	250 CFM Compressor Diesel	Air Compressor	121.2	99	1.2	Diesel Tier 3	75	0.74
SDC - Central & Eastern - 33	CAT 950 H Wheel Loader	Rubber Tired Loaders	853.7	99	8.6	Diesel or Hybrid	130	0.36
SDC - Central & Eastern - 33	CAT Forklift 5,500 LB	Aerial Lift	13.3	99	0.1	Diesel	63	0.31

SDC - Central & Eastern - 33	CAT Hyd Excavator 1CY	Excavator	336.6	99	3.4	Diesel	138	0.38
SDC - Central & Eastern - 33	Grove RT Crane 55T, 247 hp	Crane	1891	99	19.1	Diesel	247	0.29
SDC - Central & Eastern - 33	Hydraulic 40 Ton Crane	Crane	13.3	99	0.1	Diesel	300	0.29
SDC - Central & Eastern - 33	Hydraulic 55 Ton Crane	Crane	1060.7	99	10.7	Diesel	350	0.29
SDC - Central & Eastern - 33	Hydraulic 9 Ton Crane	Crane	13.3	99	0.1	Diesel	85	0.29
SDC - Central & Eastern - 33	Manitowoc 555 150T, 250' Boom	Crane	1891	99	19.1	Diesel	760	0.29
SDC - Central & Eastern - 33	Manitowoc 777 200 Ton Crane	Crane	1060.7	99	10.7	Diesel	760	0.29
SDC - Central & Eastern - 33	Pile Hammer D62-22, Single 165k Ft-LB, Dies	Other Construction Eq	1891	99	19.1	Diesel	300	0.42
SDC - Central & Eastern - 33	Portable, 20 Kw, Diesel, 36HP	Welders	1891	99	19.1	Diesel Tier 4	36	0.45
SDC - Central & Eastern - 33	Vibro Driver/Extractor V20B	Other Construction Eq	1891	99	19.1	Diesel	325	0.42
SDC - Central & Eastern - 34	Manitowoc 777 200 Ton Crane	Crane	571.2	76	7.5	Diesel	760	0.29
SDC - Central & Eastern - 35	Hydraulic 25 Ton Crane	Crane	164.8	28	5.9	Diesel	100	0.29
SDC - Central & Eastern - 35	Hydraulic 40 Ton Crane	Crane	74.7	28	2.7	Diesel	300	0.29
SDC - Central & Eastern - 35	Manitowoc 777 200 Ton Crane	Crane	205	28	7.3	Diesel	760	0.29
SDC - Central & Eastern - 36	150 KW Diesel Generator	Generator	83	7	11.9	Diesel Tier 4	183	0.74
SDC - Central & Eastern - 36	Dewater Pump 6"	Pump	332	7	47.4	Diesel	50	0.74
SDC - Central & Eastern - 36	Hydraulic 15 Ton Crane	Crane	83	7	11.9	Diesel	100	0.29
SDC - Central & Eastern - 37	250 CFM Compressor Diesel	Air Compressor	952.3	59	16.1	Diesel Tier 3	75	0.74
SDC - Central & Eastern - 37	Manitowoc 777 200 Ton Crane	Crane	766	59	13.0	Diesel	760	0.29
SDC - Central & Eastern - 37	Manitowoc 999-275 Ton Crane	Crane	326.7	59	5.5	Diesel	900	0.29
SDC - Central & Eastern - 38	1600 CFM Compressor Diesel	Air Compressor	133.3	193	0.7	Diesel Tier 4	540	0.74
SDC - Central & Eastern - 38	250 CFM Compressor Diesel	Air Compressor	1916.7	193	9.9	Diesel Tier 3	75	0.74
SDC - Central & Eastern - 38	Heavy Duty Mechanic Welder	Welder	133.3	193	0.7	Diesel	400	0.45
SDC - Central & Eastern - 38	Hydraulic 40 Ton Crane	Crane	750	193	3.9	Diesel	300	0.29
SDC - Central & Eastern - 38	Hydraulic 25 Ton Crane	Crane	133.3	193	0.7	Diesel	100	0.29
SDC - Central & Eastern - 38	Telescope RT Forklift 5500	Forklift	133.3	193	0.7	Diesel	63	0.2
SDC - Central & Eastern - 38	Truck Crane Lattice Boom 90T	Crane	133.3	193	0.7	Diesel Tier 4	300	0.29
SDC - Central & Eastern - 39	250 CFM Compressor Diesel	Air Compressor	2753.2	379	7.3	Diesel Tier 3	75	0.74
SDC - Central & Eastern - 39	CAT Forklift 5,500 LB	Aerial Lift	2158.3	379	5.7	Diesel	63	0.31
SDC - Central & Eastern - 39	CAT D8 Dozer	Crawler Tractor	1916.7	379	5.1	Diesel	328	0.43
SDC - Central & Eastern - 39	CAT 988 H Wheel Loader	Rubber Tired Loader	1916.7	379	5.1	Diesel	400	0.36
SDC - Central & Eastern - 39	Hydraulic 40 Ton Crane	Crane	2158.3	379	5.7	Diesel	300	0.29
SDC - Central & Eastern - 39	Hydraulic 9 Ton Crane	Crane	2158.3	379	5.7	Diesel	85	0.29
SDC - Central & Eastern - 40	1600 CFM Compressor Diesel	Air Compressor	83.3	389	0.2	Diesel Tier 4	540	0.74
SDC - Central & Eastern - 40	Heavy Duty Mechanic Welder	Welder	83.3	389	0.2	Diesel	400	0.45
SDC - Central & Eastern - 40	Hydraulic 25 Ton Crane	Crane	83.3	389	0.2	Diesel	100	0.29
SDC - Central & Eastern - 40	Hydraulic 55 Ton Crane	Crane	83.3	389	0.2	Diesel	350	0.29
SDC - Central & Eastern - 40	Manitowoc 777 200 Ton Crane	Crane	595.8	389	1.5	Diesel	760	0.29
SDC - Central & Eastern - 40	Telescope RT Forklift 5500	Forklift	353.3	389	0.9	Diesel	63	0.2
SDC - Central & Eastern - 40	Truck Crane Lattice Boom 90T	Crane	83.3	389	0.2	Diesel Tier 4	300	0.29
SDC - Central & Eastern - 41	400A Diesel Welder, Trailer Mounted	Welders	8.8	949	0.0	Diesel	22	0.45
SDC - Central & Eastern - 41	Air Compressor 185 cfm	Air Compressor	30	949	0.0	Diesel Tier 4	49	0.48
SDC - Central & Eastern - 41	Boom Truck, 12.5 Tn Boom	Crane	15	949	0.0	Diesel or Hybrid	100	0.29
SDC - Central & Eastern - 41	CAT 12 M	Grader	135	949	0.1	Diesel	173	0.41
SDC - Central & Eastern - 41	CAT 14 M	Grader	4500	949	4.7	Diesel	274	0.41
SDC - Central & Eastern - 41	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	135	949	0.1	Diesel	158	0.38
SDC - Central & Eastern - 41	CAT LOADER/HOE 416 E	Rubber Tired Loaders	2987	949	3.1	Diesel	78	0.36
SDC - Central & Eastern - 41	Concrete Vibrator, 2"	Other Construction Eq	71	949	0.1	Gasoline	3	0.42
SDC - Central & Eastern - 41	Disk, Towed	Off Highway Tractor	362	949	0.4	Diesel	104	0.44
SDC - Central & Eastern - 41	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	362	949	0.4	Diesel	80	0.44
SDC - Central & Eastern - 41	Grove RT Crane 30T, 160HP	Crane	30	949	0.0	Diesel	160	0.29
SDC - Central & Eastern - 41	Grove RT Crane 55T, 247 hp	Crane	18	949	0.0	Diesel	247	0.29
SDC - Central & Eastern - 41	Grove RT Crane 80T, 275hp	Crane	30	949	0.0	Diesel	275	0.29
SDC - Central & Eastern - 41	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	30	949	0.0	Diesel	75	0.31
SDC - Central & Eastern - 41	Portable, 90 Kw, Diesel 158hp	Welders	9	949	0.0	Diesel Tier 4	158	0.45
SDC - Central & Eastern - 42	150 KW Diesel Generator	Generator	64	70	0.9	Diesel Tier 4	183	0.74
SDC - Central & Eastern - 42	1600 CFM Compressor Diesel	Air Compressor	143.4	70	2.0	Diesel Tier 4	540	0.74
SDC - Central & Eastern - 42	250 CFM Compressor Diesel	Air Compressor	396.8	70	5.7	Diesel Tier 3	75	0.74
SDC - Central & Eastern - 42	CAT 950 H Wheel Loader	Rubber Tired Loaders	297.9	70	4.3	Diesel or Hybrid	130	0.36
SDC - Central & Eastern - 42	CAT Forklift 5,500 LB	Aerial Lift	10.2	70	0.1	Diesel	63	0.31
SDC - Central & Eastern - 42	CAT Hyd Excavator 1CY	Excavator	164.8	70	2.4	Diesel	138	0.38
SDC - Central & Eastern - 42	Dewater Pump 6"	Pump	256	70	3.7	Diesel	50	0.74
SDC - Central & Eastern - 42	Hydraulic 40 Ton Crane	Crane	33.3	70	0.5	Diesel	300	0.29
SDC - Central & Eastern - 42	Hydraulic 55 Ton Crane	Crane	286.7	70	4.1	Diesel	350	0.29
SDC - Central & Eastern - 42	Hydraulic 9 Ton Crane	Crane	10.2	70	0.1	Diesel	85	0.29
SDC - Central & Eastern - 42	Hydraulic 15 Ton Crane	Crane	64	70	0.9	Diesel	100	0.29
SDC - Central & Eastern - 42	Hydraulic 25 Ton Crane	Crane	48.9	70	0.7	Diesel	100	0.29
SDC - Central & Eastern - 42	Hydraulic Excavator to 3.5 tons = Kobelco SK485LC' 2.75cy' 345 hp Excavator	Excavator	150.7	70	2.2	Diesel	345	0.38
SDC - Central & Eastern - 42	Manitowoc 777 200 Ton Crane	Crane	861.7	70	12.3	Diesel	760	0.29
SDC - Central & Eastern - 42	Manitowoc 999-275 Ton Crane	Crane	163.2	70	2.3	Diesel	900	0.29
SDC - Central & Eastern - 43	400A Diesel Welder, Trailer Mounted	Welders	11354	854	13.3	Diesel	22	0.45
SDC - Central & Eastern - 43	Air Compressor 1600 cfm	Air Compressor	3450	854	4.0	Diesel Tier 4	540	0.74
SDC - Central & Eastern - 43	Air Compressor 185 cfm	Air Compressor	44	854	0.1	Diesel Tier 4	49	0.48
SDC - Central & Eastern - 43	Air Compressor 375 CFM	Air Compressor	3492	854	4.1	Diesel Tier 4	122	0.48
SDC - Central & Eastern - 43	Boom Truck, 12.5 Tn Boom	Crane	913	854	1.1	Diesel or Hybrid	100	0.29
SDC - Central & Eastern - 43	CAT 12 M	Grader	1063	854	1.2	Diesel	173	0.41
SDC - Central & Eastern - 43	CAT 14 M	Grader	1297	854	1.5	Diesel	274	0.41
SDC - Central & Eastern - 43	CAT 311, 0.69 cy, 70 hp	Excavator	65	854	0.1	Diesel	70	0.38
SDC - Central & Eastern - 43	CAT 320D, 1.56 cy, 153 hp	Excavator	107	854	0.1	Diesel	138	0.38
SDC - Central & Eastern - 43	Cat 613 C Self Loading Scraper	Scraper	107	854	0.1	Diesel	187	0.48
SDC - Central & Eastern - 43	CAT 815, Roller	Roller	33	854	0.0	Diesel	170	0.38
SDC - Central & Eastern - 43	CAT 950 H Wheel Loader	Rubber Tired Loaders	211	854	0.2	Diesel or Hybrid	130	0.36
SDC - Central & Eastern - 43	CAT 962 H Wheel Loader	Rubber Tired Loader	48	854	0.1	Diesel	230	0.36
SDC - Central & Eastern - 43	CAT 973 Track Loader, 4.2 cy, 263hp	Skid Loader	756	854	0.9	Diesel or Hybrid	210	0.37
SDC - Central & Eastern - 43	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	145	854	0.2	Diesel	158	0.38
SDC - Central & Eastern - 43	CAT CS-74, Roller, 17 tn, 156 HP	Rollers	48	854	0.1	Diesel	156	0.38
SDC - Central & Eastern - 43	CAT D3 LGP, Dozer	Crawler Tractor	2130	854	2.5	Diesel or Hybrid	76	0.43
SDC - Central & Eastern - 43	CAT D6LGPDozer w winch	Crawler Tractor	16465	854	19.3	Diesel or Hybrid	179	0.43
SDC - Central & Eastern - 43	CAT D8Rii, Dozer w winch	Crawler Tractor	1023	854	1.2	Diesel	310	0.43
SDC - Central & Eastern - 43	CAT IT28H, 10640 LB Tool Carrier	Rubber Tired Loaders	33	854	0.0	Diesel	145	0.36
SDC - Central & Eastern - 43	CAT LOADER/HOE 416 E	Rubber Tired Loaders	45	854	0.1	Diesel	78	0.36
SDC - Central & Eastern - 43	Compactor, Plate, 22" w x 35"	Plate Compactor	1791	854	2.1	Diesel	8.5	0.43
SDC - Central & Eastern - 43	Compactor, Trench Roller, Vib 32" w	Rollers	682	854	0.8	Diesel	20	0.38
SDC - Central & Eastern - 43	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	2280	854	2.7	Diesel Tier 4	210	0.38
SDC - Central & Eastern - 43	Concrete Vibrator, 2"	Other Construction Eq	25558	854	29.9	Gasoline	3	0.42

SDC - Central & Eastern - 43	Disk, Towed	Off Highway Tractor	3166	854	3.7	Diesel	140	0.44
SDC - Central & Eastern - 43	Grove RT Crane 30T, 160HP	Crane	44	854	0.1	Diesel	160	0.29
SDC - Central & Eastern - 43	Grove RT Crane 15T, 100hp	Crane	17	854	0.0	Diesel	100	0.29
SDC - Central & Eastern - 43	Grove RT Crane 55T, 247 hp	Crane	4739	854	5.5	Diesel	247	0.29
SDC - Central & Eastern - 43	Grove RT Crane 80T, 275hp	Crane	482	854	0.6	Diesel	275	0.29
SDC - Central & Eastern - 43	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	4787	854	5.6	Diesel	345	0.38
SDC - Central & Eastern - 43	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	4214	854	4.9	Diesel	384	0.38
SDC - Central & Eastern - 43	Manitowoc 555 150T, 250' Boom	Crane	6809	854	8.0	Diesel	760	0.29
SDC - Central & Eastern - 43	Manitowoc 999, 250T, 260' Boom	Crane	332	854	0.4	Diesel	900	0.29
SDC - Central & Eastern - 43	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	44	854	0.1	Diesel	75	0.31
SDC - Central & Eastern - 43	Pile Hammer D62-22, Single 165k Ft-LB, Dies	Other Construction Eq	1905	854	2.2	Diesel	300	0.42
SDC - Central & Eastern - 43	Pile Hammer,Vulcan, Single 50k Ft-LB w Corr	Other Construction Eq	756	854	0.9	Diesel	210	0.42
SDC - Central & Eastern - 43	Portable, 20 Kw, Diesel, 36HP	Welders	2751	854	3.2	Diesel Tier 4	36	0.45
SDC - Central & Eastern - 43	Portable, 90 Kw, Diesel 158hp	Welders	3450	854	4.0	Diesel Tier 4	158	0.45
SDC - Central & Eastern - 43	Vibro Driver/Extractor V20B	Other Construction Eq	2751	854	3.2	Diesel	325	0.42
SDC - Central & Eastern - 43	Water Pump, 4" Diesel	Pumps	3342	854	3.9	Diesel	10	0.74
SDC - Central & Eastern - 43	Well Drill	Bore/Drill Rigs	700	854	0.8	Diesel	136	0.5

**Offroad Equipment (Electric) Inventory for Southern Complex West of Byron Highway - South Delta Conv - Central & Eastern
Options 9A, 9B, 10A, 10B**

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
SDC - Central & Eastern - 3	400A, Electric Welder	156	1815	0.25	0.021
SDC - Central & Eastern - 3	Water Pump, 4" Electrical, Submersible	27.6	1815	1	0.015
SDC - Central & Eastern - 20	Water Pump, 4" Electrical, Submersible	1273.4	250	1	5.094
SDC - Central & Eastern - 22	Water Pump, 4" Electrical, Submersible	666.7	90	1	7.408
SDC - Central & Eastern - 23	Water Pump, 4" Electrical, Submersible	116.8	49	1	2.384
SDC - Central & Eastern - 26	Water Pump, 4" Electrical, Submersible	6082.8	271	1	22.446
SDC - Central & Eastern - 27	Water Pump, 4" Electrical, Submersible	12.1	245	1	0.049
SDC - Central & Eastern - 28	Water Pump, 4" Electrical, Submersible	292	208	1	1.404
SDC - Central & Eastern - 28	400A, Electric Welder	379.6	208	0.25	0.456
SDC - Central & Eastern - 31	400A, Electric Welder	141	190	0.25	0.186
SDC - Central & Eastern - 38	Axial Fan 114,000 CFM	1375	193	50	356
SDC - Central & Eastern - 38	Gantry Crane	958.3	193	0.25	1
SDC - Central & Eastern - 39	Axial Fan 114,000 CFM	14012.5	379	50	1,849
SDC - Central & Eastern - 39	Gantry Crane	7100	379	0.25	5
SDC - Central & Eastern - 41	400A, Electric Welder	30	949	0.25	0.008
SDC - Central & Eastern - 41	Water Pump, 4" Electrical, Submersible	5	949	1	0.005
SDC - Central & Eastern - 43	400A, Electric Welder	73	854	0.25	0.021
SDC - Central & Eastern - 43	Water Pump, 4" Electrical, Submersible	3118	854	1	4

Electricity for TBM Operations included in the Summary Workbook

Vehicle Inventory for Southern Complex West of Byron Highway - South Delta Conv - Central & Eastern
Options 9A, 9B, 10A, 10B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint, in)	# day	Vehicle Hours	Hours/Trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (mpg/est)
Vehicle Use on Paved Roads -- and Not on Construction Site												
SDC - Central & Eastern - 1	Pickup, 3/4T, 4wd	Materials from Stockton	53	43.4	1.1	41	0.8	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline	
SDC - Central & Eastern - 1	Truck/ End Dump/ 16-20cy/ Hwy	Base Rock from Vernalis	53	58.8	0.7	84	2	South Delta Conveyance to/from Vernalis	21	42	Diesel	
SDC - Central & Eastern - 1	Truck/ End Dump/ 16-20cy/ Hwy	Gravel from Vernalis	53	466.9	0.7	667	13	South Delta Conveyance to/from Vernalis	21	42	Diesel	
SDC - Central & Eastern - 1	Truck Flatbed 4 T Highway	Materials from Stockton	53	94.2	1.1	88	1.7	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 1	Truck, Flatbed, 10T, Hwy	Tractor, Loader, and Roller from Stockton	1	3.2	1.1	3	3.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 2	Pickup 1/2T 2 WD	Materials from Stockton	90	1642.4	1.1	1540	17.1	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline	
SDC - Central & Eastern - 2	Pickup, 3/4T, 4wd	Materials from Stockton	90	130.0	1.1	122	1.4	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline	
SDC - Central & Eastern - 2	Truck Flatbed 4 T Highway	Materials from Stockton	90	455.0	1.1	427	4.7	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 2	Truck/ End Dump/ 16-20cy/ Hwy	Materials from Stockton	90	227.5	1.1	213	2.4	South Delta Conveyance to/from Twin Cities Complex	32	64	Diesel	
SDC - Central & Eastern - 2	Truck Flatbed 4 T Highway	Rebar from Livermore	90	2.8	0.6	5	0.1	South Delta Conveyance to/from Livermore	17	34	Diesel	
SDC - Central & Eastern - 2	Truck Flatbed 4 T Highway	Materials from Stockton	90	94.2	1.1	88	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 2	Truck, Flatbed, 10T, Hwy	Tractor, Crane, and Grader from Stockton	1	3.2	1.1	3	3.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 2	Truck, Flatbed, 10T, Hwy	Loader from and to Stockton	2	2.1	1.1	2	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 3	Pickup 1/2T 2 WD	Materials from Stockton	1815	94068.0	1.1	88189	48.6	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline	
SDC - Central & Eastern - 3	Pickup, 3/4T, 4wd	Materials from Stockton	1815	9568.0	1.1	8970	4.9	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline	
SDC - Central & Eastern - 3	Truck Flatbed 4 T Highway	Materials from Stockton	1815	8551.4	1.1	8017	4.4	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 3	Trailer, Lowboy, 50T	Materials from Stockton	1815	3588.0	1.1	3364	1.9	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 3	Truck, Tractor, 75000#, 6 x 4	Materials from Stockton	1815	3588.0	1.1	3364	1.9	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 3	Truck/ End Dump/ 16-20cy/ Hwy	Materials from Stockton	1815	15600.0	1.1	14625	8.1	South Delta Conveyance to/from Twin Cities Complex	32	64	Diesel	
SDC - Central & Eastern - 3	Truck, Flatbed, 10T, Hwy	Materials from Stockton	1815	5895.9	1.1	5527	3.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 3	Concrete Transit Mix Truck/ 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	1815	212.0	0.2	1272	0.7	South Delta Conveyance to/from Southern Complex Batch Plant on Byron Tract	5	10	Diesel	
SDC - Central & Eastern - 3	Truck/ End Dump/ 16-20cy/ Hwy	Base Rock from Vernalis	1815	1289.4	0.7	1842	1	South Delta Conveyance to/from Vernalis	21	42	Diesel	
SDC - Central & Eastern - 3	Truck Flatbed 4 T Highway	Materials from Stockton	1815	94.2	1.1	88	0.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 3	Truck, Flatbed, 10T, Hwy	Two Tractors, Loader, and three Cranes from Stockton	1	6.4	1.1	6	6.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 4	Pickup 1/2T 2 WD	Materials from Stockton	259	2801.7	1.1	2627	10.1	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline	
SDC - Central & Eastern - 4	Truck/ End Dump/ 10-13cy/ Hwy	Materials from Stockton	259	422.5	1.1	16961	65.5	South Delta Conveyance to/from Twin Cities Complex	32	64	Diesel	
SDC - Central & Eastern - 4	Trailer, Lowboy, 50T	Materials from Stockton	259	1377.9	1.1	1292	5.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 4	Truck, Flatbed, 10T, Hwy	Crane and Excavator from Stockton	1	2.1	1.1	2	2.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 4	Truck, Flatbed, 10T, Hwy	Tractor to Stockton	1	1.1	1.1	1	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 5	Pickup 1/2T 2 WD	Materials from Stockton	252	43.1	1.1	40	0.2	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline	
SDC - Central & Eastern - 5	Trailer, Lowboy, 50T	Materials from Stockton	252	9833.2	1.1	9219	36.6	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 5	Truck/ End Dump/ 16-20cy/ Hwy	Base Rock from Vernalis	252	487.9	0.7	697	3	South Delta Conveyance to/from Vernalis	21	42	Diesel	
SDC - Central & Eastern - 5	Truck Flatbed 4 T Highway	Steel from Livermore	252	175.1	0.6	302	1.2	South Delta Conveyance to/from Livermore	17	34	Diesel	
SDC - Central & Eastern - 5	Truck Flatbed 4 T Highway	Materials from Stockton	252	62.6	1.1	59	0.2	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 5	Truck, Flatbed, 10T, Hwy	Scraper and Tractor from Stockton	1	2.1	1.1	2	2.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 5	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	1.1	1.1	1	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 6	Truck, Flatbed, 10T, Hwy	Materials from Stockton	88	17.4	1.1	16	0.2	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 6	Truck Flatbed 4 T Highway	Materials from Stockton	88	38.4	1.1	36	0.4	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 6	Truck Flatbed 4 T Highway	Rebar from Livermore	88	17.0	0.6	30	0.3	South Delta Conveyance to/from Livermore	17	34	Diesel	
SDC - Central & Eastern - 6	Concrete Transit Mix Truck/ 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	88	786.8	0.2	121	1.4	South Delta Conveyance to/from Southern Complex Batch Plant on Byron Tract	5	10	Diesel	
SDC - Central & Eastern - 6	Truck Flatbed 4 T Highway	Slurry Wall Bentonite from Sacramento	88	544.1	2.6	212	2.4	South Delta Conveyance to/from Sacramento	77	154	Diesel	
SDC - Central & Eastern - 6	Truck, Flatbed, 10T, Hwy	Formlft, Excavator, and five Cranes from Stockton	1	7.5	1.1	7	7.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 7	Truck Flatbed 4 T Highway	Materials from Stockton	12	12.8	1.1	12	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 7	Concrete Transit Mix Truck/ 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	12	786.8	0.2	93	7.8	South Delta Conveyance to/from Southern Complex Batch Plant on Byron Tract	5	10	Diesel	
SDC - Central & Eastern - 7	Truck Flatbed 4 T Highway	Rebar from Livermore	12	7.4	0.6	13	1.1	South Delta Conveyance to/from Livermore	17	34	Diesel	
SDC - Central & Eastern - 7	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	1.1	1.1	1	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 8	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	1.1	1.1	1	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 9	Truck Flatbed 4 T Highway	Rebar from Livermore	5	0.6	0.6	1	0.2	South Delta Conveyance to/from Livermore	17	34	Diesel	
SDC - Central & Eastern - 9	Concrete Transit Mix Truck/ 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	5	786.8	0.2	7	1.4	South Delta Conveyance to/from Southern Complex Batch Plant on Byron Tract	5	10	Diesel	
SDC - Central & Eastern - 9	Truck Flatbed 4 T Highway	Rebar from Livermore	5	0.6	0.6	1	0.2	South Delta Conveyance to/from Livermore	17	34	Diesel	
SDC - Central & Eastern - 10	Truck Flatbed 4 T Highway	Rebar from Livermore	19	2.3	0.6	4	0.2	South Delta Conveyance to/from Livermore	17	34	Diesel	
SDC - Central & Eastern - 10	Concrete Transit Mix Truck/ 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	19	786.8	0.2	53	2.8	South Delta Conveyance to/from Southern Complex Batch Plant on Byron Tract	5	10	Diesel	
SDC - Central & Eastern - 11	Truck Flatbed 4 T Highway	Materials from Stockton	52	12.8	1.1	12	0.2	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 11	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	1.1	1.1	1	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 12	Truck, Flatbed, 10T, Hwy	Materials from Stockton	151	17.4	1.1	16	0.1	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 12	Truck Flatbed 4 T Highway	Materials from Stockton	151	48.0	1.1	45	0.3	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 12	Truck Flatbed 4 T Highway	Rebar from Livermore	151	16.4	0.6	29	0.2	South Delta Conveyance to/from Livermore	17	34	Diesel	
SDC - Central & Eastern - 12	Truck Flatbed 4 T Highway	Slurry Wall Bentonite from Sacramento	151	544.1	2.6	212	1.4	South Delta Conveyance to/from Sacramento	77	154	Diesel	
SDC - Central & Eastern - 12	Concrete Transit Mix Truck/ 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	151	786.8	0.2	118	0.8	South Delta Conveyance to/from Southern Complex Batch Plant on Byron Tract	5	10	Diesel	
SDC - Central & Eastern - 12	Truck, Flatbed, 10T, Hwy	Formlft, Excavator, and two Cranes to Stockton	1	4.3	1.1	4	4.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 13	Truck Flatbed 4 T Highway	Materials from Stockton	5	14.9	1.1	14	2.8	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 13	Truck Flatbed 4 T Highway	Rebar from Livermore	5	9.6	0.6	17	3.4	South Delta Conveyance to/from Livermore	17	34	Diesel	
SDC - Central & Eastern - 13	Concrete Transit Mix Truck/ 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	5	786.8	0.2	195	39.0	South Delta Conveyance to/from Southern Complex Batch Plant on Byron Tract	5	10	Diesel	
SDC - Central & Eastern - 13	Truck, Flatbed, 10T, Hwy	Two Cranes to Stockton	1	2.1	1.1	2	2.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 14	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	1.1	1.1	1	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 15	Truck Flatbed 4 T Highway	Rebar from Livermore	6	0.6	0.6	1	0.2	South Delta Conveyance to/from Livermore	17	34	Diesel	
SDC - Central & Eastern - 16	Truck Flatbed 4 T Highway	Rebar from Livermore	19	2.3	0.6	4	0.2	South Delta Conveyance to/from Livermore	17	34	Diesel	
SDC - Central & Eastern - 17	Truck Flatbed 4 T Highway	Materials from Stockton	54	14.9	1.1	14	0.3	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 17	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	1.1	1.1	1	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 18	Pickup 1/2T 2 WD	Materials from Stockton	322	4239.7	1.1	3975	12.3	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline	
SDC - Central & Eastern - 18	Pickup, 3/4T, 4wd	Materials from Stockton	322	79.7	1.1	75	0.2	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline	
SDC - Central & Eastern - 18	Truck Flatbed 4 T Highway	Materials from Stockton	322	35.2	1.1	33	0.1	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 18	Truck/ End Dump/ 16-20cy/ Hwy	Base Rock from Vernalis	322	960	0.7	1371	4	South Delta Conveyance to/from Vernalis	21	42	Diesel	
SDC - Central & Eastern - 18	Truck, Flatbed, 10T, Hwy	Scraper to Stockton	1	2.1	1.1	2	2.0	South Delta Conveyance to/from Stockton	32	64	Diesel	
SDC - Central & Eastern - 18	Truck, Flatbed, 10T, Hwy	Grader, Excavator, and Crane from Stockton	1	2.1	1.1	2	2.0	South Delta Conveyance to/from Stockton	32	64	Diesel	

SDC - Central & Eastern - 18	Truck, Flatbed, 10T, Hwy	Roller, Tractor, and Loader from and to Stockton	2	6.4	1.1	6	3.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 19	Trailer, Lowboy, 50T	Materials from Stockton	335	2570.3	1.1	2410	7.2	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 19	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	335	665.3	1.1	624	1.9	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 19	Pickup 1/2T 2 WD	Materials from Stockton	335	5170.5	1.1	4847	14.5	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline
SDC - Central & Eastern - 19	Truck' End Dump' 16-20cy Hwy	Base Rock and Gravel from Vernalis	335	2468	0.7	3526	11	South Delta Conveyance to/from Vernalis	21	42	Diesel
SDC - Central & Eastern - 19	Truck Flatbed 4 T Highway	Rebar from Livermore	335	3.4	0.6	6	0.0	South Delta Conveyance to/from Livermore	17	34	Diesel
SDC - Central & Eastern - 19	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex	335	786.8	0.2	25	0.1	South Delta Conveyance to/from Southern Complex Batch Plant on Byron Tract	5	10	Diesel
SDC - Central & Eastern - 19	Truck Flatbed 4 T Highway	Steel from Livermore	335	222.7	0.6	393	1.2	South Delta Conveyance to/from Livermore	17	34	Diesel
SDC - Central & Eastern - 19	Truck Flatbed 4 T Highway	Materials from Stockton	335	810.7	1.1	760	2.3	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 19	Truck, Flatbed, 10T, Hwy	Loader from Stockton	1	1.1	1.1	1	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 20	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex	250	786.8	0.2	4721	18.9	South Delta Conveyance to/from Southern Complex Batch Plant on Byron Tract	5	10	Diesel
SDC - Central & Eastern - 20	Pickup 1/2T 2 WD	Materials from Stockton	250	1369.0	1.1	1283	5.1	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline
SDC - Central & Eastern - 20	Trailer, Lowboy, 50T	Materials from Stockton	250	1161.6	1.1	1089	4.4	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 20	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	250	1161.6	1.1	1089	4.4	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 20	Truck Flatbed 4 T Highway	Materials from Stockton	250	1506.1	1.1	1412	5.6	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 20	Truck Flatbed 4 T Highway	Steel from Livermore	250	51.6	0.6	91	0.4	South Delta Conveyance to/from Livermore	17	34	Diesel
SDC - Central & Eastern - 20	Truck Flatbed 4 T Highway	Rebar from Livermore	250	158.1	0.6	279	1.1	South Delta Conveyance to/from Livermore	17	34	Diesel
SDC - Central & Eastern - 20	Truck' End Dump' 16-20cy Hwy	Base Rock from Vernalis	250	325.5	0.7	465	2	South Delta Conveyance to/from Vernalis	21	42	Diesel
SDC - Central & Eastern - 20	Truck, Flatbed, 10T, Hwy	Roller and Grader to Stockton	1	2.1	1.1	2	2.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 20	Truck, Flatbed, 10T, Hwy	Excavator from Stockton	1	1.1	1.1	1	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 20	Truck, Flatbed, 10T, Hwy	Roller from and to Stockton	2	2.1	1.1	2	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 21	Pickup, 3/4T, 4wd	Materials from Stockton	59	267.2	1.1	251	4.2	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline
SDC - Central & Eastern - 21	Trailer, Lowboy, 50T	Materials from Stockton	59	396.9	1.1	372	6.3	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 21	Truck Flatbed 4 T Highway	Steel from Livermore	59	21.5	0.6	38	0.6	South Delta Conveyance to/from Livermore	17	34	Diesel
SDC - Central & Eastern - 21	Truck, Flatbed, 10T, Hwy	Crane to Stockton	59	1.1	1.1	1	0.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 22	Truck Flatbed 4 T Highway	Materials from Stockton	90	666.7	1.1	625	6.9	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 22	Truck Flatbed 4 T Highway	Rebar from Livermore	90	2.3	0.6	4	0.0	South Delta Conveyance to/from Livermore	17	34	Diesel
SDC - Central & Eastern - 22	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex	90	786.8	0.2	390	4.3	South Delta Conveyance to/from Southern Complex Batch Plant on Byron Tract	5	10	Diesel
SDC - Central & Eastern - 22	Truck' End Dump' 16-20cy Hwy	Gravel from Vernalis	90	219.1	0.7	313	3	South Delta Conveyance to/from Vernalis	21	42	Diesel
SDC - Central & Eastern - 22	Truck Flatbed 4 T Highway	Materials from Stockton	90	43.7	1.1	41	0.5	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 23	Pickup 1/2T 2 WD	Materials from Stockton	49	9.3	1.1	9	0.2	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline
SDC - Central & Eastern - 23	Truck Flatbed 4 T Highway	Materials from Stockton	49	116.8	1.1	110	2.2	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 23	Truck Flatbed 4 T Highway	Rebar from Livermore	49	2.3	0.6	4	0.1	South Delta Conveyance to/from Livermore	17	34	Diesel
SDC - Central & Eastern - 23	Truck Flatbed 4 T Highway	Materials from Stockton	49	25.6	1.1	24	0.5	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 24	Truck Flatbed 4 T Highway	Materials from Stockton	56	57.8	1.1	54	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 24	Truck, Flatbed, 10T, Hwy	Materials from Stockton	56	1161.6	1.1	1089	19.4	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 25	Pickup 1/2T 2 WD	Materials from Stockton	331	3436.9	1.1	3222	9.7	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline
SDC - Central & Eastern - 25	Trailer, Lowboy, 50T	Materials from Stockton	331	786.9	1.1	738	2.2	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 25	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	331	786.9	1.1	738	2.2	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 25	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex	331	686.7	0.2	4120	12.4	South Delta Conveyance to/from Southern Complex Batch Plant on Byron Tract	5	10	Diesel
SDC - Central & Eastern - 25	Truck Flatbed 4 T Highway	Materials from Stockton	331	228.9	1.1	215	0.6	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 25	Truck Flatbed 4 T Highway	Steel from Livermore	331	23.2	0.6	41	0.1	South Delta Conveyance to/from Livermore	17	34	Diesel
SDC - Central & Eastern - 25	Truck Flatbed 4 T Highway	Materials from Stockton	331	141.9	1.1	133	0.4	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 25	Truck' End Dump' 16-20cy Hwy	Base Rock from Vernalis	331	83.3	0.7	119	0	South Delta Conveyance to/from Vernalis	21	42	Diesel
SDC - Central & Eastern - 25	Truck, Flatbed, 10T, Hwy	Excavator to Stockton	1	1.1	1.1	1	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 26	Pickup 1/2T 2 WD	Materials from Stockton	271	31.6	1.1	30	0.1	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline
SDC - Central & Eastern - 26	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex	271	10077.5	0.2	60465	223.1	South Delta Conveyance to/from Southern Complex Batch Plant on Byron Tract	5	10	Diesel
SDC - Central & Eastern - 26	Truck Flatbed 4 T Highway	Materials from Stockton	271	6423.2	1.1	v	#VALUE!	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 26	Truck Flatbed 4 T Highway	Rebar from Livermore	271	10.2	0.6	18	0.1	South Delta Conveyance to/from Livermore	17	34	Diesel
SDC - Central & Eastern - 26	Truck Flatbed 4 T Highway	Steel from Livermore	271	171.1	0.6	302	1.1	South Delta Conveyance to/from Livermore	17	34	Diesel
SDC - Central & Eastern - 26	Truck Flatbed 4 T Highway	Materials from Stockton	271	125.2	1.1	117	0.4	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 26	Truck, Flatbed, 10T, Hwy	Three Excavators, Two Cranes, Tractor, and Two Loaders to Stockton	1	7.5	1.1	7	7.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 27	Pickup 1/2T 2 WD	Materials from Stockton	245	5714.9	1.1	5358	21.9	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline
SDC - Central & Eastern - 27	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex	245	5791.6	0.2	34750	141.8	South Delta Conveyance to/from Southern Complex Batch Plant on Byron Tract	5	10	Diesel
SDC - Central & Eastern - 27	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	245	288.9	1.1	271	1.1	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 27	Truck Flatbed 4 T Highway	Materials from Stockton	245	12.1	1.1	11	0.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 27	Truck Flatbed 4 T Highway	Steel from Livermore	245	244.2	0.6	431	1.8	South Delta Conveyance to/from Livermore	17	34	Diesel
SDC - Central & Eastern - 27	Truck Flatbed 4 T Highway	Rebar from Livermore	245	444.3	0.6	784	3.2	South Delta Conveyance to/from Livermore	17	34	Diesel
SDC - Central & Eastern - 27	Truck Flatbed 4 T Highway	Materials from Stockton	245	917.3	1.1	860	3.5	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 28	Pickup 1/2T 2 WD	Materials from Stockton	208	379.6	1.1	356	1.7	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline
SDC - Central & Eastern - 28	Truck Flatbed 4 T Highway	Materials from Stockton	208	278.9	1.1	261	1.3	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 28	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	208	711.1	1.1	667	3.2	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 28	Truck, Flatbed, 10T, Hwy	Four Cranes to Stockton	1	4.3	1.1	4	4.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 28	Truck, Flatbed, 10T, Hwy	Loader from and to Stockton	2	2.1	1.1	2	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 29	Trailer, Lowboy, 50T	Materials from Stockton	172	2335.7	1.1	2190	12.7	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 29	Truck Flatbed 4 T Highway	Steel Fence from Livermore	172	30.0	0.6	53	0.3	South Delta Conveyance to/from Livermore	17	34	Diesel
SDC - Central & Eastern - 29	Truck, Flatbed, 10T, Hwy	Two Cranes and Loader to Stockton	1	3.2	1.1	3	3.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 30	Truck, Flatbed, 10T, Hwy	Materials from Stockton	66	234.0	1.1	219	3.3	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 30	Truck Flatbed 4 T Highway	Materials from Stockton	66	36.3	1.1	34	0.5	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 30	Truck, Flatbed, 10T, Hwy	Grader and Four Tractors to Stockton	1	5.3	1.1	5	5.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 30	Truck, Flatbed, 10T, Hwy	Loader and Scraper from and to Stockton	2	4.3	1.1	4	2.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 31	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex	190	744.0	0.2	4464	23.5	South Delta Conveyance to/from Southern Complex Batch Plant on Byron Tract	5	10	Diesel
SDC - Central & Eastern - 31	Truck Flatbed 4 T Highway	Materials from Stockton	190	57.6	1.1	54	0.3	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 31	Truck Flatbed 4 T Highway	Rebar and Steel from Livermore	190	51.0	0.6	82	0.4	South Delta Conveyance to/from Livermore	17	34	Diesel
SDC - Central & Eastern - 31	Truck Flatbed 4 T Highway	Slurry Wall Bentonite from Sacramento	190	361.9	2.6	141	0.7	South Delta Conveyance to/from Sacramento	77	154	Diesel
SDC - Central & Eastern - 31	Truck, Flatbed, 10T, Hwy	Tractor and Loader from Stockton	1	2.1	1.1	2	2.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 31	Truck, Flatbed, 10T, Hwy	Two Rollers and Grader from and to Stockton	2	6.4	1.1	6	3.0	South Delta Conveyance to/from Stockton	32	64	Diesel

SDC - Central & Eastern - 31	Truck/ End Dump/ 16-20cy/ Hwy	Base Rock and Gravel from Vernalis	190	218.0	0.7	311	1.6	South Delta Conveyance to/from Vernalis	21	42	Diesel
SDC - Central & Eastern - 31	Truck, Flatbed, 10T, Hwy	Materials from Stockton	190	88.0	1.1	83	0.4	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 31	Pickup 1/2T 2 WD	Materials from Stockton	190	746.0	1.1	699	3.7	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline
SDC - Central & Eastern - 31	Pickup, 3/4T, 4wd	Materials from Stockton	190	33.0	1.1	31	0.2	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline
SDC - Central & Eastern - 32	Truck/ End Dump/ 16-20cy/ Hwy	Base Rock from Vernalis	80	3195.0	0.7	4564	57.1	South Delta Conveyance to/from Vernalis	21	42	Diesel
SDC - Central & Eastern - 32	Concrete Transit Mix Truck/ 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	80	744.0	0.2	4464	55.8	South Delta Conveyance to/from Southern Complex Batch Plant on Byron Tract	5	10	Diesel
SDC - Central & Eastern - 32	Truck, Flatbed, 10T, Hwy	Grader from and to Stockton	2	2.1	1.1	2	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 32	Pickup 1/2T 2 WD	Materials from Stockton	80	5.0	1.1	5	0.1	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline
SDC - Central & Eastern - 33	Concrete Transit Mix Truck/ 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	99	1060.7	0.2	6364	64.3	South Delta Conveyance to/from Southern Complex Batch Plant on Byron Tract	5	10	Diesel
SDC - Central & Eastern - 33	Truck Flatbed 4 T Highway	Rebar and Steel from Livermore	99	76.0	0.6	134	1.4	South Delta Conveyance to/from Livermore	17	34	Diesel
SDC - Central & Eastern - 33	Truck, Flatbed, 10T, Hwy	Materials from Stockton	99	13.3	1.1	12	0.1	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 33	Truck, Flatbed, 10T, Hwy	Four Cranes from Stockton	1	4.3	1.1	4	4.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 33	Truck, Flatbed, 10T, Hwy	Excavator from and to Stockton	2	2.1	1.1	2	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 35	Truck Flatbed 4 T Highway	Rebar from Livermore	28	0.6	0.6	1	0.0	South Delta Conveyance to/from Livermore	17	34	Diesel
SDC - Central & Eastern - 35	Concrete Transit Mix Truck/ 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	28	786.8	0.2	3	0.1	South Delta Conveyance to/from Southern Complex Batch Plant on Byron Tract	5	10	Diesel
SDC - Central & Eastern - 35	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	1.1	1.1	1	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 36	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	1.1	1.1	1	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 37	Concrete Transit Mix Truck/ 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	59	305.4	0.2	1832	31.1	South Delta Conveyance to/from Southern Complex Batch Plant on Byron Tract	5	10	Diesel
SDC - Central & Eastern - 37	Truck Flatbed 4 T Highway	Rebar from Livermore	59	4.0	0.6	7	0.1	South Delta Conveyance to/from Livermore	17	34	Diesel
SDC - Central & Eastern - 37	Truck Flatbed 4 T Highway	Materials from Stockton	59	45.9	1.1	43	0.7	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 37	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	1.1	1.1	1	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 38	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	1.1	1.1	1	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 39	Truck, Flatbed, 10T, Hwy	Loader from and to Stockton	2	2.1	1.1	2	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 39	Truck, Flatbed, 10T, Hwy	Tractor to Stockton	1	1.1	1.1	1	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 40	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	1.1	1.1	1	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 41	Truck, Flatbed, 10T, Hwy	Materials from Stockton	949	1134.0	1.1	1063	1.1	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 41	Pickup 1/2T 2 WD	Materials from Stockton	949	1530.0	1.1	1434	1.5	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline
SDC - Central & Eastern - 41	Concrete Transit Mix Truck/ 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	949	53.0	0.2	318	0.3	South Delta Conveyance to/from Southern Complex Batch Plant on Byron Tract	5	10	Diesel
SDC - Central & Eastern - 41	Truck Flatbed 4 T Highway	Materials from Stockton	949	857.0	1.1	803	0.8	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 41	Truck/ End Dump/ 16-20cy/ Hwy	Base Rock and Gravel from Vernalis	949	461.0	0.7	659	0.7	South Delta Conveyance to/from Vernalis	21	42	Diesel
SDC - Central & Eastern - 42	Concrete Transit Mix Truck/ 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	70	120.1	0.2	721	10.3	South Delta Conveyance to/from Southern Complex Batch Plant on Byron Tract	5	10	Diesel
SDC - Central & Eastern - 42	Truck Flatbed 4 T Highway	Rebar from Livermore	70	15.9	0.6	28	0.4	South Delta Conveyance to/from Livermore	17	34	Diesel
SDC - Central & Eastern - 42	Truck Flatbed 4 T Highway	Materials from Stockton	70	76.8	1.1	72	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 42	Truck Flatbed 4 T Highway	Slurry Wall Bentonite from Sacramento	70	320.8	2.6	125	1.8	South Delta Conveyance to/from Sacramento	77	154	Diesel
SDC - Central & Eastern - 42	Truck, Flatbed, 10T, Hwy	Excavator from and to Stockton	2	2.1	1.1	2	1.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 42	Truck, Flatbed, 10T, Hwy	Seven Cranes to Stockton	1	7.5	1.1	7	7.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 43	Pickup 1/2T 2 WD	Materials from Stockton	854	9036.0	1.1	8471	9.9	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline
SDC - Central & Eastern - 43	Pickup, 3/4T, 4wd	Materials from Stockton	854	208.0	1.1	195	0.2	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline
SDC - Central & Eastern - 43	Concrete Transit Mix Truck/ 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	854	7705.0	0.2	46230	54.1	South Delta Conveyance to/from Southern Complex Batch Plant on Byron Tract	5	10	Diesel
SDC - Central & Eastern - 43	Truck Flatbed 4 T Highway	Materials from Stockton	854	3540.0	1.1	3319	3.9	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 43	Truck, Flatbed, 10T, Hwy	Materials from Stockton	854	45.0	1.1	42	0.0	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 43	Truck, Tractor, 75000#, 6 x 4	Materials from Stockton	854	3539.0	1.1	3318	3.9	South Delta Conveyance to/from Stockton	32	64	Diesel
SDC - Central & Eastern - 43	Truck/ End Dump/ 16-20cy/ Hwy	Base Rock and Gravel from Vernalis	854	937.0	0.7	1339	1.6	South Delta Conveyance to/from Vernalis	21	42	Diesel
SDC - Central & Eastern - 43	Truck Flatbed 4 T Highway	Rebar and Steel from Livermore	854	323.0	0.6	570	0.7	South Delta Conveyance to/from Livermore	17	34	Diesel
Vehicle Use on Unimproved/Soft Surface (no access roads at SDC - Central & Eastern - 1											
SDC - Central & Eastern - 1	CAT 740 40T, Articulated End Dump	Dumper	53	86.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	434		Diesel or Hybrid
SDC - Central & Eastern - 2	Truck, End Dump, 10-13cy, Hwy	Dumper	90	175.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	875		Diesel
SDC - Central & Eastern - 2	Trailer, Flatbed, 40T	Off-Highway Truck	90	350.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1750		Diesel
SDC - Central & Eastern - 4	Articulated Rear Dump 22 CY/CAT 730	Dumper	259	28577.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	142886		Diesel or Hybrid
SDC - Central & Eastern - 5	Articulated Rear Dump 22 CY/CAT 730	Dumper	252	344.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1723		Diesel or Hybrid
SDC - Central & Eastern - 6	Articulated Rear Dump 22 CY/CAT 730	Dumper	88	243.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1216		Diesel or Hybrid
SDC - Central & Eastern - 6	Concrete Pump Truck	Off-Highway Truck	88	486.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2432		Diesel
SDC - Central & Eastern - 6	CAT 730 Rear Dump	Dumper	88	297	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1487		Diesel or Hybrid
SDC - Central & Eastern - 9	Concrete Pump Truck	Off-Highway Truck	5	8.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	45		Diesel
SDC - Central & Eastern - 11	Concrete Pump Truck	Off-Highway Truck	52	194.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	975		Diesel
SDC - Central & Eastern - 12	Concrete Pump Truck	Off-Highway Truck	151	486.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2432		Diesel
SDC - Central & Eastern - 12	CAT 730 Rear Dump	Dumper	151	297	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1487		Diesel or Hybrid
SDC - Central & Eastern - 12	Articulated Rear Dump 22 CY/CAT 730	Dumper	151	243.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1216		Diesel or Hybrid
SDC - Central & Eastern - 15	Concrete Pump Truck	Off-Highway Truck	6	8.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	45		Diesel

SDC - Central & Eastern - 17	Concrete Pump Truck	Off-Highway Truck	54	483.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2419	Diesel
SDC - Central & Eastern - 18	Articulated Rear Dump 22 CY/CAT 730	Dumper	322	25931	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	129657	Diesel or Hybrid
SDC - Central & Eastern - 18	CAT735, 33T, Articulated End Dump	Dumper	322	2198	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	10992	Diesel or Hybrid
SDC - Central & Eastern - 19	Articulated Rear Dump 22 CY/CAT 730	Dumper	335	3123	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	15613	Diesel or Hybrid
SDC - Central & Eastern - 19	CAT735, 33T, Articulated End Dump	Dumper	335	11113	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	55565	Diesel or Hybrid
SDC - Central & Eastern - 20	Truck, End Dump, 16-20cy, Hey		250	587.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2939	Diesel
SDC - Central & Eastern - 22	Concrete Pump Truck	Off-Highway Truck	90	666.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3334	Diesel
SDC - Central & Eastern - 23	CAT735, 33T, Articulated End Dump	Dumper	49	7175	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	35874	Diesel or Hybrid
SDC - Central & Eastern - 23	Concrete Pump Truck	Off-Highway Truck	49	145.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	727	Diesel
SDC - Central & Eastern - 24	Trailer, Flatbed, 120T	Off-Highway Truck	56	310.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1551	Diesel
SDC - Central & Eastern - 25	Articulated Rear Dump 22 CY/CAT 730	Dumper	331	30993	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	154964	Diesel or Hybrid
SDC - Central & Eastern - 25	Concrete Pump Truck	Off-Highway Truck	331	1144.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	5723	Diesel
SDC - Central & Eastern - 26	Articulated Rear Dump 22 CY/CAT 730	Dumper	271	23841	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	119203	Diesel or Hybrid
SDC - Central & Eastern - 26	Concrete Pump Truck	Off-Highway Truck	271	10077.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	50388	Diesel
SDC - Central & Eastern - 27	Articulated Rear Dump 22 CY/CAT 730	Dumper	245	7750	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	38752	Diesel or Hybrid
SDC - Central & Eastern - 27	Concrete Pump Truck	Off-Highway Truck	245	5791.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	28958	Diesel
SDC - Central & Eastern - 28	Concrete Pump Truck	Off-Highway Truck	208	60.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	303	Diesel
SDC - Central & Eastern - 30	Articulated Rear Dump 6mg/CAT 725	Dumper	66	350	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1750	Diesel or Hybrid
SDC - Central & Eastern - 31	Truck, End Dump, 16-30cy, Hey	Dumper	190	125.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	625	Diesel
SDC - Central & Eastern - 31	Trailer, Lowboy, 50T	Off-Highway Truck	190	40.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	200	Diesel
SDC - Central & Eastern - 32	Articulated Rear Dump 22 CY/CAT 730	Dumper	80	40.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	200	Diesel
SDC - Central & Eastern - 33	Articulated Rear Dump 22 CY/CAT 730	Dumper	99	1262	265.0	not applicable	not applicable	on-site: assume 5 miles/hour	6309	Diesel or Hybrid
SDC - Central & Eastern - 33	Trailer, Lowboy, 50T	Off-Highway Truck	99	1891.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	9455	Diesel
SDC - Central & Eastern - 41	Truck, End Dump, 16-20cy, Hey	Dumper	949	3000.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	15000	Diesel
SDC - Central & Eastern - 43	Cat 10mgall w/Cat 770, 513HP	Dumper	854	48.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	240	Diesel or Hybrid
SDC - Central & Eastern - 43	Articulated Rear Dump 22 CY/CAT 730	Off-Highway Truck	854	24797	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	123985	Diesel
SDC - Central & Eastern - 43	CAT735, 33T, Articulated End Dump	Dumper	854	797	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3985	Diesel or Hybrid
SDC - Central & Eastern - 43	Trailer, Lowboy, 50T	Off-Highway Truck	854	4735.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	23675	Diesel
SDC - Central & Eastern - 43	Trailer, Lowboy, 120T	Off-Highway Truck	854	392.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1960	Diesel
SDC - Central & Eastern - 43	Truck, End Dump, 16-20cy, Hey	Dumper	854	1066.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	5330	Diesel

**Employees Required to Southern Complex West of Byron Highway - South Delta Conv - Central & Eastern
Options 9A, 9B, 10A, 10B**

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	
SDC - Central & Eastern - 1	Carpenter Foreman	181.1	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 1	Carpenter Journeyman	1188.3	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 1	Cement Mason Foreman	194.5	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 1	Cement Mason Journeyman	1343.1	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 1	Iron Worker Foreman	175.5	10		Stockton to/from South Delta Conveyance	32
	Iron Worker Journeyman					32
SDC - Central & Eastern - 1	Rebar/Struct	1228.5	10		Stockton to/from South Delta Conveyance	
SDC - Central & Eastern - 1	Laborer Foreman	65	10		Stockton to/from South Delta Conveyance	32
						32
SDC - Central & Eastern - 1	Laborer G1 Vibrator, Green Cutter	130	10		Stockton to/from South Delta Conveyance	
SDC - Central & Eastern - 1	Laborer G2 Concrete Laborer	389.5	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 1	Laborer G2 General	181	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 1	Laborer G3 Dumpman	43.4	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 1	OPERATING ENGINEER FOREMAN	43.4	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 1	Operator G3 Loader >4cy	43.4	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 1	Operator G4 Dozer & Push Cat	43.4	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 1	Operator G4 Grade Check	43.4	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 1	Operator G6 Tractor	43.4	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 1	Operator G7 Roller, Compactor	43.4	10		Stockton to/from South Delta Conveyance	32
	Teamster G2 Hwy ED 6-8cy,					32
SDC - Central & Eastern - 1	Water<7mgal	21.7	10		Stockton to/from South Delta Conveyance	
	Teamster G3 ED 8-24cy,					32
SDC - Central & Eastern - 1	Water>7mgal	86.8	10		Stockton to/from South Delta Conveyance	
TOTAL SDC - Central & Eastern-1		5488.8				
SDC - Central & Eastern - 2	Carpenter Apprentice	732.4	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	Carpenter Foreman	732.4	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	Carpenter Journeyman	1464.7	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	Electrical Foreman	296.8	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	Electrician Journeyman	1057.4	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	Iron Worker Journeyman Rebar/Struc	1464.7	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	Laborer Foreman	910	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	Laborer G1 Pipe layers	1820	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	Laborer G2 General	5234.7	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	OPERATING ENGINEER FOREMAN	130	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	Operator G2 Finish Blade	130	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	Operator G3a Cranes 45 t and under	732.4	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	Operator G4 BH-Loader <.76cy	1820	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	Operator G4 Dozer & Push Cat	130	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	Operator G4 Grade Check	130	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	Operator G4 Scraper	260	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	Operator G7 Roller, Compactor	130	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	Teamster G2 Hwy ED 6-8cy, Water<7	1040	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 2	Teamster G3 Boom Truck	366.2	10		Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-2		18581.7				
SDC - Central & Eastern - 3	Carpenter Apprentice	156	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Carpenter Foreman	156	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Carpenter Journeyman	1618.5	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Electrical Foreman	156	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Electrician Journeyman	156	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Iron Worker Journeyman Rebar/S	312	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Laborer Foreman	9617.4	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Laborer G2 General	7846.8	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Laborer G4 Clean-up	11700	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	OPERATING ENGINEER FOREMAN	7800	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Operator G2 Finish Blade	23400	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Operator G2a Cranes 45 to 100 t	91.8	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Operator G3 BH-Loader>3/4cy	1462.5	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Operator G3a Cranes 45 t and unc	156	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Operator G4 Hvy Duty Mechanic	45.9	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Operator G4 Loader <4.1cy	9683.7	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Operator G6 Tractor	1883.7	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Teamster G1 Hwy ED<6cy, Flatbec	9663.3	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Teamster G2 Hwy ED 6-8cy, Wate	23400	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Teamster G3 Boom Truck	78	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 3	Teamster G3 ED 8-24cy, Water>7i	15875.5	10		Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-3		125259.1				
SDC - Central & Eastern - 4	Laborer G2 General	6740.5	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 4	Laborer G3 Flagman	422.5	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 4	OPERATING ENGINEER FOREMAN	3012.9	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 4	Operator G1a Cranes>100 t	1377.9	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 4	Operator G2 Excavator 3.5 to 7.0 cy	5603.4	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 4	Operator G2a Cranes 45 to 100 t	1377.9	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 4	Operator G4 Dozer & Push Cat	11629.2	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 4	Operator G4 Loader <4.1cy	211.3	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 4	Operator G4 Trim Machine	105.6	10		Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 4	Operator G5 Drilling & Boring Mach	585	10		Stockton to/from South Delta Conveyance	32

SDC - Central & Eastern - 4	Operator G7 Oiler	1962.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 4	Pile Driver Foreman	1377.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 4	Pile Driver Journeyman	5511.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 4	Teamster G2 Hwy ED 6-8cy, Water<7	211.3	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 4	Teamster G3 ED 8-24cy, Water>7mga	28999.6	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-4		69129.7			
SDC - Central & Eastern - 5	Laborer G3 Flagman	3437.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 5	OPERATING ENGINEER FOREMAN	159.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 5	Operator G1a Cranes>100 t	9833.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 5	Operator G2 Excavator 3.5 to 7.0 cy	86.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 5	Operator G2 Finish Blade	3437.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 5	Operator G2a Cranes 45 to 100 t	9833.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 5	Operator G4 Dozer & Push Cat	3726.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 5	Operator G4 Scraper	349.3	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 5	Operator G5 Compactor w-blade	116.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 5	Operator G7 Oiler	9833.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 5	Pile Driver Foreman	9833.3	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 5	Pile Driver Journeyman	39332.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 5	Teamster G3 ED 8-24cy, Water>7mga	344.5	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-5					
SDC - Central & Eastern - 6	Bullgang Foreman	17.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Bullgang Laborer	243.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Carpenter	522.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Carpenter Foreman	130.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Crane Oiler	751.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Excavator Operator	279.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Flat Truck Driver	17.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	General Foreman	742.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	General Laborer	3475	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Hyd Crane Operator	521.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Iron Worker	2487.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Iron Worker Foreman	500.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Lead Miner	249.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Loader Operator	505.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Mechanic Welder	503.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Miner	1952.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Shaft Crane Operator	751.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Shifter	736.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Toplander	265.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 6	Truck Driver	296.7	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-6		14948.8			
SDC - Central & Eastern - 7	Bottomlander	120.5	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 7	Hyd Crane Operator	122.1	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 7	Iron Worker	1276.8	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 7	Iron Worker Foreman	159.6	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 7	Lead Miner	20.8	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 7	Miner	485.3	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 7	Shaft Crane Operator	120.5	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 7	Shifter	180.4	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 7	Toplander	276.9	24	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-7		2762.9			
SDC - Central & Eastern - 8	Hyd Crane Operator	108.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 8	Lead Miner	108.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 8	Miner	868.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 8	Shifter	108.6	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-8		1194.4			
SDC - Central & Eastern - 9	Crane Oiler	38.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 9	Electrician	8.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 9	Iron Worker	237.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 9	Iron Worker Foreman	29.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 9	Lead Miner	8.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 9	Mechanic Welder	8.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 9	Miner	130.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 9	Shaft Crane Operator	38.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 9	Shifter	38.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 9	Toplander	38.6	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-9		579.1			
SDC - Central & Eastern - 10	Bottomlander	255.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 10	Crane Oiler	255.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 10	Iron Worker	2045.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 10	Iron Worker Foreman	255.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 10	Shaft Crane Operator	255.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 10	Toplander	255.7	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-10					
SDC - Central & Eastern - 11	Bottomlander	110.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 11	Concrete Pump Operator	138.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 11	Crane Oiler	331.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 11	Lead Miner	387.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 11	Mechanic Welder	249.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 11	Miner	2992.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 11	Shaft Crane Operator	387.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 11	Shifter	387.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 11	Toplander	387.6	10	Stockton to/from South Delta Conveyance	32

TOTAL SDC - Central & Eastern-11		5372			
SDC - Central & Eastern - 12	Bullgang Foreman	17.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	Bullgang Laborer	34.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	Carpenter	522.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	Carpenter Foreman	130.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	Crane Oiler	751.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	Excavator Operator	279.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	Flat Truck Driver	17.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	General Foreman	742.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	General Laborer	3485.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	Hyd Crane Operator	521.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	Iron Worker	2487.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	Iron Worker Foreman	500.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	Lead Miner	249.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	Loader Operator	505.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	Mechanic Welder	503.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	Miner	1952.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	Shaft Crane Operator	751.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	Shifter	736.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	Toplander	265.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 12	Truck Driver	277.2	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-12		14731.7			
SDC - Central & Eastern - 13	Bottomlander	120.5	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 13	Hyd Crane Operator	122.1	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 13	Iron Worker	1276.8	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 13	Iron Worker Foreman	159.6	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 13	Lead Miner	20.8	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 13	Miner	485.3	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 13	Shaft Crane Operator	120.5	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 13	Shifter	180.4	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 13	Toplander	276.9	24	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-13		2762.9			
SDC - Central & Eastern - 14	Hyd Crane Operator	108.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 14	Lead Miner	108.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 14	Miner	868.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 14	Shifter	108.6	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-14		1194.4			
SDC - Central & Eastern - 15	Crane Oiler	38.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 15	Electrician	8.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 15	Iron Worker	237.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 15	Iron Worker Foreman	29.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 15	Lead Miner	8.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 15	Mechanic Welder	8.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 15	Miner	130.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 15	Shaft Crane Operator	38.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 15	Shifter	38.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 15	Toplander	38.6	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-15		578.8			
SDC - Central & Eastern - 16	Bottomlander	458.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 16	Crane Oiler	458.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 16	Iron Worker	3669.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 16	Iron Worker Foreman	458.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 16	Shaft Crane Operator	458.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 16	Toplander	458.7	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-16		5963.4			
SDC - Central & Eastern - 17	Bottomlander	110.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 17	Concrete Pump Operator	213.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 17	Crane Oiler	481.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 17	Lead Miner	538.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 17	Mechanic Welder	324.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 17	Shaft Crane Operator	538.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 17	Shifter	538.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 17	Toplander	538.1	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-17		3282.8			
SDC - Central & Eastern - 18	Electrical Lineman	260	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 18	Laborer Foreman	743	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 18	Laborer G1 Pipe layers	1300	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 18	Laborer G2 General	6300	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 18	Laborer G3 Flagman	4828.3	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 18	OPERATING ENGINEER FOREMAN	4226.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 18	Operator G1a Cranes-100 t	250	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 18	Operator G2 Excavator 3.5 to 7.0 cy	6036.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 18	Operator G2 Finish Blade	770.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 18	Operator G3 Loader >4cy	79.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 18	Operator G4 Dozer & Push Cat	11887.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 18	Operator G4 Grade Check	79.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 18	Operator G5 Drilling & Boring Mach	700	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 18	Operator G5 Compactor w-blade	79.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 18	Operator G7 Oiler	250	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 18	Operator G8 Generator	1300	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 18	Teamster G2 Hwy ED 6-8cy, Water<7	610.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 18	Teamster G3 Boom Truck	650	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 18	Teamster G3 ED 8-24cy, Water>7mgc	28687.6	10	Stockton to/from South Delta Conveyance	32

TOTAL SDC - Central & Eastern-18

69039.6

SDC - Central & Eastern - 19	Pile Driver Wharf and Dock	2661.3	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 19	Operator G5 Compactor w-blade	59.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 19	Laborer G3 Flagman	6269.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 19	OPERATING ENGINEER FOREMAN	4564.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 19	Operator G1a Cranes>100 t	2570.3	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 19	Operator G2 Excavator 3.5 to 7.0 cy	4505.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 19	Operator G2 Finish Blade	2856.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 19	Operator G2a Cranes 45 to 100 t	2570.3	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 19	Operator G3 Loader >4cy	665.3	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 19	Operator G4 Dozer & Push Cat	12120.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 19	Operator G4 Scraper	179.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 19	Operator G7 Oiler	2570.3	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 19	Pile Driver Foreman	2570.3	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 19	Pile Driver Journeyman	7619.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 19	Teamster G2 Hwy ED 6-8cy, Water<7	1036.3	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 19	Teamster G3 ED 8-24cy, Water>7mgz	14235.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 19	Teamster G4 Tractor, Lowbed/Trailer	665.3	10	Stockton to/from South Delta Conveyance	32

TOTAL SDC - Central & Eastern-19

67720.4

SDC - Central & Eastern - 20	Carpenter Foreman	1127.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Carpenter Journeyman	7890.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Cement Mason Foreman	513	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Cement Mason Journeyman	2591.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Iron Worker Foreman	3975.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Iron Worker Journeyman Rebar/Struc	23850.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Laborer Foreman	2645.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Laborer G1 Power Tamper		10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Laborer G1 Vibrator, Green Cutter	1525.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Laborer G2 Concrete Laborer	4249	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Laborer G2 General	2350.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Laborer G2 High Pressure Nozzleman	490.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Laborer G3 Flagman	207.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Operator G1a Cranes>100 t	1506.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Operator G2 Excavator 3.5 to 7.0 cy		10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Operator G2 Finish Blade	108.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Operator G2a Cranes 45 to 100 t	1248.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Operator G3 Hyd Exc 3/4cy	158.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Operator G3 Loader >4cy	111.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Operator G4 Dozer & Push Cat	119.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Operator G4 Hvy Duty Mechanic	232.3	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Operator G4 Loader <4.1cy	158.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Operator G4a Boom truck<15 ton	462	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Operator G5 Compactor w-blade	108.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Operator G5 Concrete Pump	786.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Operator G7 Oiler	1515.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Operator G8a Skidsteer <Bobcat 743	80.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Teamster G1 Hwy ED<6cy, Flatbed	1506.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Teamster G2 Hwy ED 6-8cy, Water<7	24.3	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Teamster G3 ED 8-24cy, Water>7mgz	3290.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 20	Teamster G4 Tractor, Lowbed/Trailer	1161.6	10	Stockton to/from South Delta Conveyance	32

TOTAL SDC - Central & Eastern-20

11073.8

SDC - Central & Eastern - 21	Laborer Foreman	457.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 21	Laborer G1 Power Tamper	1603.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 21	Laborer G2 Concrete Laborer	762	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 21	Operator G1a Cranes>100 t	369.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 21	Operator G2 Excavator 3.5 to 7.0 cy	534.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 21	Operator G2a Cranes 45 to 100 t	388.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 21	Operator G4 Dozer & Push Cat	534.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 21	Pile Driver Wharf and Dock	1587.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 21	Operator G7 Oiler	369.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 21	Teamster G3 ED 8-24cy, Water>7mgz	1068.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 21	Pile Driver Foreman	396.9	10	Stockton to/from South Delta Conveyance	32

TOTAL SDC - Central & Eastern-21

8074.1

SDC - Central & Eastern - 22	Carpenter Foreman	1948.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 22	Carpenter Journeyman	13642.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 22	Cement Mason Foreman	243.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 22	Cement Mason Journeyman	739.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 22	Iron Worker Foreman	5893.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 22	Iron Worker Journeyman Rebar/Struc	35359.3	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 22	Laborer Foreman	673.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 22	Laborer G1 Vibrator, Green Cutter	1333.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 22	Laborer G2 Concrete Laborer	2834.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 22	Laborer G2 General	974.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 22	Laborer G2 High Pressure Nozzleman	6.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 22	Operator G1a Cranes>100 t	666.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 22	Operator G5 Concrete Pump	666.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 22	Operator G7 Oiler	666.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 22	Teamster G1 Hwy ED<6cy, Flatbed	666.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 22	Teamster G3 ED 8-24cy, Water>7mgz	2000.1	10	Stockton to/from South Delta Conveyance	32

TOTAL SDC - Central & Eastern-22

68316.3

SDC - Central & Eastern - 23	Carpenter Foreman	285.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 23	Carpenter Journeyman	382.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 23	Cement Mason Foreman	34.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 23	Cement Mason Journeyman	192.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 23	Iron Worker Foreman	122	10	Stockton to/from South Delta Conveyance	32

SDC - Central & Eastern - 23	Iron Worker Journeyman Rebar/Struc	935.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 23	Laborer Foreman	29.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 23	Laborer G1 Vibrator, Green Cutter	58.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 23	Laborer G2 Concrete Laborer	326.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 23	Laborer G2 General	54.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 23	OPERATING ENGINEER FOREMAN	1195.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 23	Operator G1a Cranes>100 t	116.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 23	Operator G2 Excavator 3.5 to 7.0 cy	2391.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 23	Operator G4 Dozer & Push Cat	4783.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 23	Operator G5 Concrete Pump	29.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 23	Operator G7 Oiler	116.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 23	Teamster G1 Hwy ED<6cy, Flatbed	116.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 23	Teamster G3 ED 8-24cy, Water>7mgs	7291.1	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-23		18463.4			
SDC - Central & Eastern - 24	Carpenter Foreman	1241	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 24	Carpenter Journeyman	1617	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 24	Iron Worker-Rigger	541.3	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 24	Laborer G2 General	1472	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 24	Millwright	6205	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 24	Operator G2a Cranes 45 to 100 t	368	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 24	Teamster G1 Hwy ED<6cy, Flatbed	57.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 24	Teamster G4 Tractor, Lowbed/Trailer	310.3	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-24		11812.4			
SDC - Central & Eastern - 25	Iron Worker Foreman	263.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 25	Iron Worker Journeyman Rebar/Struc	1518.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 25	Laborer Foreman	332.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 25	Laborer G1 Vibrator, Green Cutter	457.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 25	Laborer G2 Concrete Laborer	1789.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 25	Laborer G2 General	103.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 25	Laborer G3 Flagman	103.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 25	OPERATING ENGINEER FOREMAN	2546.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 25	Operator G1a Cranes>100 t	1015.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 25	Operator G2 Excavator 3.5 to 7.0 cy	5093.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 25	Operator G2a Cranes 45 to 100 t	786.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 25	Operator G3 Hyd Exc 3/4cy	103.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 25	Operator G3 Loader >4cy	786.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 25	Operator G4 Dozer & Push Cat	10186.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 25	Operator G4 Hvy Duty Mechanic	228.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 25	Operator G4 Loader <4.1cy	103.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 25	Operator G5 Concrete Pump	228.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 25	Operator G7 Oiler	1015.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 25	Teamster G3 ED 8-24cy, Water>7mgs	31989	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-25		58653.6			
SDC - Central & Eastern - 26	Carpenter Foreman	11614.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Carpenter Journeyman	81302.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Cement Mason Foreman	3500.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Cement Mason Journeyman	17159.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Iron Worker Foreman	27137.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Iron Worker Journeyman Rebar/Struc	162825	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Laborer Foreman	3030.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Laborer G1 Vibrator, Green Cutter	4097.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Laborer G2 Concrete Laborer	15933.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Laborer G2 General	6554.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Operator G1a Cranes>100 t	6423.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Operator G3 Loader >4cy	15.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Operator G4 Hvy Duty Mechanic	340.3	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Operator G5 Concrete Pump	2048.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Operator G7 Oiler	6210.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Operator G8a Skidsteer <Bobcat 743	31.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Teamster G1 Hwy ED<6cy, Flatbed	6423.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Teamster G2 Hwy ED 6-8cy, Water<7	15.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 26	Teamster G3 ED 8-24cy, Water>7mgs	8044.5	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-26		362710.4			
SDC - Central & Eastern - 27	Carpenter Foreman	9.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	Carpenter Journeyman	65.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	Cement Mason Foreman	431.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	Cement Mason Journeyman	1560.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	Operator G3 BH-Loader>3/4cy	288.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	Laborer G1 Power Tamper	9394.3	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	Laborer Foreman	4557.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	Laborer G1 Vibrator, Green Cutter	2852	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	Laborer G2 Concrete Laborer	7698.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	Laborer G2 General	9.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	Laborer G3 Flagman	2583.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	OPERATING ENGINEER FOREMAN	2583.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	Operator G1a Cranes>100 t	301	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	Operator G5 Concrete Pump	1426	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	Operator G2 Excavator 3.5 to 7.0 cy	2583.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	Operator G2 Finish Blade	645.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	Operator G7 Oiler	12.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	Operator G4 Dozer & Push Cat	5714.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	Teamster G4 Tractor, Lowbed/Trailer	288.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	Teamster G2 Hwy ED 6-8cy, Water<7	645.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	Teamster G1 Hwy ED<6cy, Flatbed	12.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 27	Teamster G3 ED 8-24cy, Water>7mgs	12115.9	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-27		55780.3			

SDC - Central & Eastern - 28	Carpenter Foreman	4969.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Carpenter Journeyman	14878.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Cement Mason Foreman	10.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Cement Mason Journeyman	58.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Electrical Foreman	379.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Electrician Journeyman	1898	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Iron Worker Foreman	463.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Iron Worker Journeyman Rebar/Struc	2929.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Iron Worker-Rigger	1826.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Laborer Foreman	12.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Laborer G1 Vibrator, Green Cutter	24.3	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Laborer G2 Concrete Laborer	911.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Laborer G2 General	5271.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Millwright	14222	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Operator G5 Concrete Pump	12.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Operator G2a Cranes 45 to 100 t	990	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Operator G3a Cranes 45 t and under	530.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Operator G4a Boom truck<15 ton	530.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Teamster G3 ED 8-24cy, Water>7mga	48,542	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Teamster G1 Hwy ED<6cy, Flatbed	278.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 28	Teamster G4 Tractor, Lowbed/Trailer	711.1	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-28		50956.942			
SDC - Central & Eastern - 29	Laborer Foreman	1121.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 29	Laborer G2 Concrete Laborer	4484.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 29	Operator G1a Cranes>100 t	2335.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 29	Operator G2a Cranes 45 to 100 t	2288.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 29	Operator G7 Oiler	2335.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 29	Pile Driver Foreman	2335.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 29	Pile Driver Wharf and Dock	9342.7	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-29		24244.3			
SDC - Central & Eastern - 30	Laborer Foreman	234	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 30	Laborer G2 General	20	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 30	Laborer G3 Fence Builder	936	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 30	Laborer G3 Flagman	520	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 30	OPERATING ENGINEER FOREMAN	270	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 30	Operator G2 Finish Blade	40	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 30	Operator G3 BH-Loader>3/4cy	234	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 30	Operator G3 Loader >4cy	20	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 30	Operator G4 Dozer & Push Cat	690	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 30	Operator G4 Scraper	240	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 30	Operator G6 Tractor	130	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 30	Teamster G1 Hwy ED<6cy, Flatbed	234	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 30	Teamster G2 Hwy ED 6-8cy, Water<7	350	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-30		3918			
SDC - Central & Eastern - 31	Bullgang Foreman	400.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Bullgang Laborer	800.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Carpenter	1,892.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Carpenter Apprentice	141.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Carpenter Foreman	463.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Carpenter Journeyman	510.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Cement Mason Foreman	37.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Cement Mason Journeyman	258.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Compactor Operator	648.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Concrete Pump Truck	744.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Dozer Operator	324.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Electrical Foreman	57.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Electrician Journeyman	203.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Flagger	648.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Flat Truck Driver	400.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	General Foreman	324.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	General Laborer	1,722.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Grade Setter / Checker	324.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Grader Operator	324.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Hyd Crane Operator	1,401.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Iron Worker	5,000.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Iron Worker Foreman	534.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Iron Worker Journeyman Rebar/Struc	518.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Laborer Foreman	188.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Laborer G1 Pipe layers	350.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Laborer G1 Vibrator, Green Cutter	25.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Laborer G2 Concrete Laborer	75.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Laborer G2 General	1,281.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Laborer G3 Dumpman	8.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Laborer G3 Flagman	81.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Loader Operator	324.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Mechanic / Welder	400.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	OPERATING ENGINEER FOREMAN	504.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Operator G1a Cranes>100 t	265.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Operator G2 Excavator 3.5 to 7.0 cy	861.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Operator G2 Finish Blade	25.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Operator G2a Cranes 45 to 100 t	265.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Operator G3 Loader >4cy	8.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Operator G3a Cranes 45 t and under	141.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Operator G4 BH-Loader <.76cy	350.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Operator G4 Dozer & Push Cat	1,837.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Operator G4 Grade Check	33.0	10	Stockton to/from South Delta Conveyance	32

SDC - Central & Eastern - 31	Operator G4 Loader <4.1cy	41.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Operator G4 Scraper	50.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Operator G4 Trim Machine	20.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Operator G5 Drilling & Boring Mach	113.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Operator G6 Tractor	8.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Operator G7 Oiler	377.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Operator G7 Roller, Compactor	33.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Pile Driver Foreman	265.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Pile Driver Journeyman	1,060.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Teamster G2 Hwy ED 6-8cy, Water<7	245.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Teamster G3 Boom Truck	70.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Teamster G3 ED 8-24cy, Water>7mga	5,672.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 31	Truck Driver	744.0	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-31		33,391.0			
SDC - Central & Eastern - 32	Compactor Operator	3,090.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 32	Dozer Operator	3,090.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 32	Grade Setter / Checker	3,090.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 32	Grader Operator	3,090.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 32	Laborer G3 Flagman	397.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 32	OPERATING ENGINEER FOREMAN	18.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 32	Operator G2 Excavator 3.5 to 7.0 cy	10.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 32	Operator G2 Finish Blade	397.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 32	Operator G4 Dozer & Push Cat	1,585.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 32	Operator G4 Scraper	40.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 32	Operator G5 Compactor w-blade	13.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 32	Teamster G3 ED 8-24cy, Water>7mga	40.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 32	Truck Driver	3,090.0	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-32		17,950.0			
SDC - Central & Eastern - 33	Bullgang Foreman	13.3	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 33	Bullgang Laborer	26.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 33	Carpenter	1,055.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 33	Carpenter Foreman	264.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 33	Crane Oiler	1,060.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 33	Excavator Operator	336.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 33	Flat Truck Driver	13.3	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 33	General Foreman	1,376.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 33	General Laborer	7,037.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 33	Hyd Crane Operator	1,087.3	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 33	Iron Worker	5,363.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 33	Iron Worker Foreman	1,075.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 33	Lead Miner	538.3	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 33	Loader Operator	853.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 33	Mechanic Welder	1,074.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 33	Miner	4,250.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 33	Operator G1a Cranes>100 t	1,891.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 33	Operator G2a Cranes 45 to 100 t	1,891.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 33	Operator G7 Oiler	1,891.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 33	Pile Driver Foreman	1,891.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 33	Pile Driver Journeyman	7,564.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 33	Shaft Crane Operator	5,303.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 33	Shifter	1,599.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 33	Truck Driver	1,261.9	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-33		48,720.6			
SDC - Central & Eastern - 34	Crane Oiler	571.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 34	Shaft Crane Operator	571.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 34	Toplander	571.2	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-34		1,713.6			
SDC - Central & Eastern - 35	Bottomlander	205.0	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 35	Hyd Crane Operator	444.5	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 35	Iron Worker	2,312.4	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 35	Iron Worker Foreman	877.3	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 35	Lead Miner	41.2	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 35	Miner	889.1	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 35	Shaft Crane Operator	205.0	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 35	Shifter	320.9	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 35	Toplander	545.0	24	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-35		5,840.5			
SDC - Central & Eastern - 36	Lead Miner	83.0	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 36	Miner	664.0	24	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 36	Shifter	83.0	24	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-36		830.0			
SDC - Central & Eastern - 37	Bottomlander	689.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 37	Concrete Pump Operator	244.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 37	Crane Oiler	1,049.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 37	Electrician	98.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 37	Iron Worker	3,277.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 37	Iron Worker Foreman	409.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 37	Lead Miner	683.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 37	Mechanic Welder	438.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 37	Miner	4,175.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 37	Shaft Crane Operator	1,092.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 37	Shifter	742.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 37	Toplander	1,092.7	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-37		13,994.1			

SDC - Central & Eastern - 38	Bottomlander	958.3	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 38	Bullgang Foreman	133.3	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 38	Bullgang Laborer	800.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 38	Crane Oiler	958.3	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 38	Electrician	3,175.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 38	Heavy Duty Mechanic Welder	133.3	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 38	Hyd Crane Operator	883.3	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 38	Lead Miner	2,125.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 38	Master Mechanic	400.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 38	Mechanic / Welder	3,175.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 38	Miner	14,250.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 38	Segment Carrier Operator	2,000.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 38	Shaft Crane Operator	1,091.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 38	Shifter	2,125.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 38	TBM Operator	2,333.3	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 38	Toplander	958.3	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-38		35,500.0			
SDC - Central & Eastern - 39	Bottomlander	7,100.0	20	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 39	Bullgang Foreman	6,411.6	20	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 39	Bullgang Laborer	21,329.6	20	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 39	Conveyor Belt Man	3,083.3	20	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 39	Crane Oiler	7,100.0	20	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 39	Dozer Operator	3,833.3	20	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 39	Electrician	7,250.0	20	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 39	Flat Truck Driver	2,158.3	20	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 39	Hyd Crane Operator	4,316.7	20	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 39	Lead Miner	3,083.3	20	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 39	Loader Operator	3,833.3	20	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 39	Man Transport Truck Operator	4,253.2	20	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 39	Master Mechanic	2,083.3	20	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 39	Mechanic / Welder	11,491.7	20	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 39	Miner	25,433.3	20	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 39	Operating Engineer	3,833.3	20	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 39	Operator G2 Plant Operator	3,833.3	20	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 39	Segment Carrier Operator	24,666.7	20	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 39	Shaft Crane Operator	7,100.0	20	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 39	Shifter	3,083.3	20	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 39	TBM Operator	6,166.7	20	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 39	Toplander	7,100.0	20	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 39	Truck Driver	1,816.3	20	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 39	Utility Truck Operator	4,253.2	20	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-39		174,613.8			
SDC - Central & Eastern - 40	Bottomlander	865.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 40	Bullgang Laborer	500.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 40	Crane Oiler	679.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 40	Electrician	1,545.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 40	Heavy Duty Mechanic Welder	83.3	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 40	Hyd Crane Operator	679.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 40	Lead Miner	865.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 40	Master Mechanic	250.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 40	Mechanic / Welder	1,545.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 40	Miner	3,753.3	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 40	Shaft Crane Operator	949.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 40	Shifter	865.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 40	Telescope RT Forklift 5500	353.3	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 40	Toplander	865.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 40	Utility Truck Operator	145.0	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-40		13,945.8			
SDC - Central & Eastern - 41	Accountant	7,324.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Carpenter Apprentice	30.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Carpenter Foreman	30.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Carpenter Journeyman	311.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Concrete Superintendent	3,662.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Cost Engineer	7,324.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Electrical Foreman	30.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Electrician Journeyman	593.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Electrical Superintendent	7,324.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	EMT	7,324.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Environmental Manager	7,324.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Equipment Superintendent	7,324.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Field Engineer	5,493.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	General Superintendent	7,324.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Geotechnical Manager	7,324.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Iron Worker Journeyman Rebar/Struc	60.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Laborer Foreman	1,850.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Laborer G2 General	1,509.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Laborer G4 Clean-up	2,250.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Office Administrator	7,324.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Office Manager	7,324.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	OPERATING ENGINEER FOREMAN	1,500.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Operator G2 Finish Blade	4,500.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Operator G2a Cranes 45 to 100 t	18.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Operator G3 BH-Loader>3/4cy	281.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Operator G3a Cranes 45 t and under	30.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Operator G4 Hvy Duty Mechanic	9.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Operator G4 Loader <4.1cy	1,862.0	10	Stockton to/from South Delta Conveyance	32

SDC - Central & Eastern - 41	Operator G6 Tractor	362.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Payroll Clerk	7,324.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Project Engineer	7,324.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Project Manager	7,324.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Purchasing Agent	7,324.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	QC Manager	7,324.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	QC Technician	3,662.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Runner	7,324.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Safety Engineer	14,649.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Safety Manager	7,324.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Schedule Engineer	3,662.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Shift Engineers	14,649.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Survey Party Chief	7,324.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Survey Rod Man	7,324.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Teamster G1 Hwy ED<6cy, Flatbed	1,858.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Teamster G2 Hwy ED 6-8cy, Water<7	4,500.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Teamster G3 Boom Truck	15.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Teamster G3 ED 8-24cy, Water>7mgz	3,053.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Tunnel Superintendent	7,324.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 41	Tunnel Walkers	14,649.6	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-41		231,576.6			
SDC - Central & Eastern - 42	Bottomlander	287.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 42	Carpenter	308.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 42	Carpenter Foreman	77.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 42	Concrete Pump Operator	81.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 42	Concrete Pump Truck	286.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 42	Crane Oiler	920.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 42	Electrician	5.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 42	Excavator Operator	164.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 42	Flat Truck Driver	10.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 42	General Foreman	437.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 42	General Laborer	2,054.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 42	Hyd Crane Operator	443.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 42	Iron Worker	3,707.8	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 42	Iron Worker Foreman	557.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 42	Lead Miner	457.2	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 42	Loader Operator	297.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 42	Mechanic Welder	449.1	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 42	Miner	3,789.6	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 42	Shaft Crane Operator	1,024.9	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 42	Shifter	855.5	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 42	Toplander	830.4	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 42	Truck Driver	174.9	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-42		17,221.3			
SDC - Central & Eastern - 43	Carpenter Foreman	7,951.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Carpenter Journeyman	44,670.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Cement Mason Foreman	1,617.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Cement Mason Journeyman	7,441.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Electrical Foreman	44.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Electrical Lineman	156.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Electrician Journeyman	219.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Iron Worker Foreman	15,389.0	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Iron Worker Journeyman Rebar/Struc	9255.7	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Iron Worker-Rigger	752	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Laborer Foreman	5741	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Laborer G1 Pipe layers	780	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Laborer G1 Power Tamper	2046	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Laborer G1 Vibrator, Green Cutter	4512	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Laborer G2 Concrete Laborer	15389	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Laborer G2 General	7385	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Laborer G2 High Pressure Nozzleman	741	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Laborer G3 Fence Builder	180	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Laborer G3 Flagman	7097	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Millwright	7846	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	OPERATING ENGINEER FOREMAN	6601	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Operator G1a Cranes>100 t	7141	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Operator G2 Excavator 3.5 to 7.0 cy	9001	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Operator G2 Finish Blade	2359	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Operator G2a Cranes 45 to 100 t	5221	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Operator G3 BH-Loader>3/4cy	78	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Operator G3 Hyd Exc 3/4cy	107	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Operator G3 Loader >4cy	907	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Operator G3a Cranes 45 t and under	61	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Operator G4 Dozer & Push Cat	19618	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Operator G4 Grade Check	48	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Operator G4 Hvy Duty Mechanic	332	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Operator G4 Loader <4.1cy	107	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Operator G4 Scraper	107	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Operator G4a Boom truck<15 ton	523	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Operator G5 Compactor w-blade	193	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Operator G5 Concrete Pump	2280	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Operator G5 Drilling & Boring Mach	700	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Operator G7 Oiler	7800	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Operator G7 Roller, Compactor	33	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Operator G8 Generator	780	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Operator G8a Skidsteer <Bobcat 743	65	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Pile Driver Foreman	3507	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Pile Driver Journeyman	7620	10	Stockton to/from South Delta Conveyance	32

SDC - Central & Eastern - 43	Pile Driver Wharf and Dock	6409	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Pipefitter Apprentice	133	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Pipefitter Foreman	33	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Pipefitter Journeyman	200	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Teamster G1 Hwy ED<6cy, Flatbed	3585	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Teamster G2 Hwy ED 6-8cy, Water<7	1079	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Teamster G3 Boom Truck	390	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Teamster G3 ED 8-24cy, Water>7mga	41841	10	Stockton to/from South Delta Conveyance	32
SDC - Central & Eastern - 43	Teamster G4 Tractor, Lowbed/Trailer	2343	10	Stockton to/from South Delta Conveyance	32
TOTAL SDC - Central & Eastern-43		353,715.0			

Marine Inventory for Southern Complex West of Byron Highway - South Delta Conv - Central & Eastern
Options 9A, 9B, 10A, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Southern Complex West of Byron Highway - South Delta Conv - Central & Eastern
Options 9A, 9B, 10A, 10B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Southern Complex West of Byron Highway - South Delta Conv - Central & Eastern
Options 9A, 9B, 10A, 10B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Southern Complex West of Byron Highway - South Delta Conv - Central & Eastern
Options 9A, 9B, 10A, 10B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
SDC - Central & Eastern - 1	150	53	2.8			2600	49				
SDC - Central & Eastern - 2		90								164736	1830
SDC - Central & Eastern - 4	84.5	259	0.3	1456871	5625						
SDC - Central & Eastern - 6		88		41332.3	470						
SDC - Central & Eastern - 18		322		1374670	4269	23215.6	72				
SDC - Central & Eastern - 19		335		102843	307	798193	2383				
SDC - Central & Eastern - 20		250		18603	74	7321.4	29				
SDC - Central & Eastern - 21		59				80170	1359				
SDC - Central & Eastern - 23		49				621819	12690				
SDC - Central & Eastern - 25		331		1334522.7	4032						
SDC - Central & Eastern - 26		271				1263.5	5				
SDC - Central & Eastern - 27		245				469714.7	1917				
SDC - Central & Eastern - 30	71	66									
SDC - Central & Eastern - 31	16	190		224000	1179					31680	167
SDC - Central & Eastern - 33		99		13785.5	139	500	3				
SDC - Central & Eastern - 37		59		76707	1300						
SDC - Central & Eastern - 40		389		372787.5	958						
SDC - Central & Eastern - 42		70		19694.8	281						
SDC - Central & Eastern - 43		854		1285700	1506	264500	310				

Demolition Assumptions for Southern Complex West of Byron Highway - South Delta Conv - Central & Eastern Options 9A, 9B, 10A, 10B

Code	# of Structures Demolished	# day	Demolition per day (sf)
NOT NEEDED			

APPENDIX F – ATTACHMENT 3

Project Design Capacity 3,000 cfs

FINAL DRAFT

Construction Schedule for Intake 5 Haul Rd - Central & Eastern Access Road

All Options

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	I5 HRd-C&E Access -1	4/9/2027	4/26/2027	14	5	10
Embankment	I5 HRd-C&E Access -2	4/27/2027	5/3/2027	5	5	10
Culvert Pipe	I5 HRd-C&E Access -3	5/4/2027	5/5/2027	3	3	10
Subdrain System	I5 HRd-C&E Access -4	5/6/2027	5/25/2027	14	5	10
Road Base	I5 HRd-C&E Access -5	5/26/2027	6/16/2027	16	5	10
Asphalt Paving	I5 HRd-C&E Access -6	6/17/2027	6/23/2027	5	5	10
KRail and Signs	I5 HRd-C&E Access -7	6/24/2027	6/24/2027	1	1	10
Intermediate Overlay	I5 HRd-C&E Access -8	5/15/2030	5/17/2030	3	3	10
Final Overlay	I5 HRd-C&E Access -9	7/1/2037	7/6/2037	5	5	10

Acres

1

Construction Schedule for Intake Haul Rd - Central & Eastern Access Road

Options 1, 2, 7, 8, 9, 10

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	IHRd-C&E Access -1	4/27/2026	7/20/2026	61	5	10
Embankment	IHRd-C&E Access -2	7/21/2026	9/24/2026	48	5	10
Culvert Pipe	IHRd-C&E Access -3	9/25/2026	10/1/2026	5	5	10
Subdrain System	IHRd-C&E Access -4	10/2/2026	12/17/2026	55	5	10
Road Base	IHRd-C&E Access -5	12/18/2026	2/25/2027	50	5	10
Asphalt Paving	IHRd-C&E Access -6	2/26/2027	4/7/2027	30	5	10
KRail and Signs	IHRd-C&E Access -7	4/8/2027	4/8/2027	1	1	10
Intermediate Overlay	IHRd-C&E Access -8	4/30/2030	5/10/2030	9	5	10
Final Overlay	IHRd-C&E Access -9	6/16/2037	7/29/2037	32	5	10

Acres **10.4**

NOTE: Access road between Intakes 2 and 3 are included in Intake 2 tables

Construction Schedule for Lambert Rd - Central & Eastern Access Road

For Intake Access Road Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	LRd-C&E Access -1	2/26/2027	3/2/2027	5	5	10
Culvert Pipe	LRd-C&E Access -2	3/3/2027	3/3/2027	1	1	10
Subdrain System	LRd-C&E Access -3	3/4/2027	3/18/2027	11	5	10
Road Base	LRd-C&E Access -4	3/19/2027	3/31/2027	10	5	10
Asphalt Paving	LRd-C&E Access -5	4/1/2027	4/6/2027	5	5	10
KRail and Signs	LRd-C&E Access -6	4/7/2027	4/20/2027	10	5	10
Intermediate Overlay	LRd-C&E Access -7	5/30/2030	6/7/2030	6	5	10
Final Overlay	LRd-C&E Access -8	7/29/2037	8/7/2037	8	5	10

Acres **12.5**

Construction Schedule for Hood-Franklin Park and Ride

For Intake Employees Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	HFPR -1	4/27/2026	7/31/2026	69	5	10
Embankment	HFPR -2	8/3/2026	8/13/2026	9	2	10
Culvert Pipe	HFPR -3	8/14/2026	8/19/2026	5	3	10
Subdrain System	HFPR -4	8/20/2026	8/25/2026	5	5	10
Road Base	HFPR -5	8/26/2026	10/6/2026	30	5	10
Asphalt Paving	HFPR -6	10/7/2026	11/23/2026	27	5	10
Electrical, Striping, and K-Rail Installation	HFPR -7	11/25/2026	11/27/2026	3	3	10

Acres

4.1

Construction Schedule for Hood-Franklin Road Overlay - Central & Eastern Access Road
 For Intake Access Employee Van - Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B
 THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	HFRd-C&E Overlay -1	11/24/2026	11/30/2026	5	5	10
Intermediate Overlay	HFRd-C&E Overlay -2	4/22/2030	4/29/2030	5	5	10
Final Overlay	HFRd-C&E Overlay -3	6/8/2037	6/16/2037	7	5	10
Acres	7.5					

Construction Schedule for SR160 Overlay - Central & Eastern Access Road
Intakes Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Initial Overlay	SR160 C&E Overlay -1	6/24/2027	7/14/2027	15	5	10
Intermediate Overlay	SR160 C&E Overlay -2	7/23/2030	8/12/2030	20	5	10
Final Overlay	SR160 C&E Overlay -3	8/26/2037	9/16/2037	20	5	10

Construction Schedule for Intake 5_3000 cfs_Central & Eastern**Options 1B, 2B, 5B, 6B, 9B, 10B - Tee Screens****THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1****NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION**

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Development of Initial Intake Box Culverts & Gantry Crane	Intake 5 - Central & Eastern - 1	1/1/2026	3/29/2026	64	5	10
Initial Temporary Buildings	Intake 5 - Central & Eastern - 2	4/2/2029	3/3/2030	240	5	10
Phase 1 Sitework	Intake 5 - Central & Eastern - 3	3/4/2030	2/20/2031	253	5	10
Operations of Temporary Buildings	Intake 5 - Central & Eastern - 4	3/4/2030	8/9/2035	1418	5	10
Phase 2 Sitework - Foundations	Intake 5 - Central & Eastern - 5	10/25/2029	7/27/2032	920	5	10
Initial Roads and Move SR 160	Intake 5 - Central & Eastern - 6	10/3/2030	11/17/2030	33	5	10
Install Cofferdam	Intake 5 - Central & Eastern - 7	11/17/2030	9/8/2031	211	5	10
Construct Reception Shaft	Intake 5 - Central & Eastern - 8	2/27/2031	10/23/2031	164	5	10
Place Tremie Seal in Reception Shaft	Intake 5 - Central & Eastern - 9	10/26/2031	10/28/2031	3	5	10
Dewater Reception Shaft	Intake 5 - Central & Eastern - 10	10/29/2031	11/4/2031	5	2	24
Assemble Reception Shaft	Intake 5 - Central & Eastern - 11	11/5/2031	3/1/2032	84	5	10
Intake Structure within Cofferdam	Intake 5 - Central & Eastern - 12	7/24/2031	12/9/2033	360	5	10
Piles and Concrete in Sedimentation Basin	Intake 5 - Central & Eastern - 13	11/7/2031	10/20/2032	249	5	10
Intake Connections and Gates	Intake 5 - Central & Eastern - 14	1/10/2032	12/7/2033	597	5	10
Sedimentation Basin Mechanical and Electrical	Intake 5 - Central & Eastern - 15	10/6/2032	10/19/2033	270	5	10
Finish Box Culverts	Intake 5 - Central & Eastern - 16	10/27/2032	11/9/2032	9	5	10
Install Fish Screen, Appurtenant Facilities, Log Boom, and Rip Rap	Intake 5 - Central & Eastern - 17	5/25/2033	9/15/2034	342	5	10
Move SR 160 to Final Location	Intake 5 - Central & Eastern - 18	6/20/2033	8/12/2033	39	5	10
Basin Embankments, Gates, Buildings, and Substation	Intake 5 - Central & Eastern - 19	8/12/2033	7/31/2034	253	5	10
Remove Cofferdam - Phase 1	Intake 5 - Central & Eastern - 20	1/24/2034	5/29/2034	91	5	10
Remove Cofferdam - Phase 2	Intake 5 - Central & Eastern - 21	11/1/2035	1/8/2036	51	5	10
Finish Site Work, Sedimentation Basin Curtain, and Fencing	Intake 5 - Central & Eastern - 22	6/20/2034	4/27/2035	223	5	10
Finish Intake Exteriors	Intake 5 - Central & Eastern - 23	10/26/2034	8/9/2035	205	5	10
Site Restoration	Intake 5 - Central & Eastern - 24	12/21/2034	3/23/2035	67	5	10
Finish Sedimentation Basin	Intake 5 - Central & Eastern - 25	3/1/2035	5/10/2035	51	5	10

Total Site Acres**240**

**Construction Schedule for Lambert Rd Conc Batch Plant - Central & Eastern
Options 5A, 5B, 6A, 6B**

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	LR CBP-C&E -1	10/7/2026	10/14/2026	6	5	10
Embankment	LR CBP-C&E -2	10/15/2026	10/15/2026	1	1	10
Culvert Pipe	LR CBP-C&E -3	10/16/2026	10/16/2026	1	1	10
Subdrain System	LR CBP-C&E -4	10/19/2026	10/19/2026	1	1	10
Road Base	LR CBP-C&E -5	10/20/2026	10/22/2026	3	3	10
Asphalt Paving	LR CBP-C&E -6	10/23/2026	10/27/2026	5	5	10
Erect Batch Plant	LR CBP-C&E -7	6/25/2029	7/20/2029	19	5	10
Batch Plant Operations - Phase 1 - Concrete for Shafts	LR CBP-C&E -8	3/17/2027	3/14/2031	1041	5	10
Batch Plant Operations - Phase 2 - Concrete for Intake 5	LR CBP-C&E -9	4/2/2029	10/25/2034	1372	5	10

Acres

Offroad Equipment (Fossil Fuel) Inventory for Lambert Rd Conc Batch Plant - Central & Eastern
Options 5A, 5B, 6A, 6B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
LR CBP-C&E -2	CAT D6LGP Dozer w winch	Crawler Tractor	30.55	1	31	Diesel Tier 4 or Hybrid Dies	179	0.43		
LR CBP-C&E -2	Disk, Towed	Off-Highway Tractor	30.55	1	31	Diesel	140	0.44		
LR CBP-C&E -2	CAT 14 M	Grader	15.3	1	15	Diesel	274	0.41		
LR CBP-C&E -2	Water Pump, 4" Diesel	Pumps	3.65	1	4	Diesel	10	0.74		
LR CBP-C&E -2	CAT 815, Roller	Roller	30.55	1	31	Diesel	170	0.38		
LR CBP-C&E -2	Light Plant, 4 lite, 1000w, Tower/Mast	Generators	122.25	1	122	Diesel	12	0.74		
LR CBP-C&E -3	Air Compressor 375 cfm	Air Compressor	13.9	1	14	Diesel Tier 4	122	0.48		
LR CBP-C&E -3	CAT LOADER/HOE 416 E	Rubber Tired Loader	27.8	1	28	Diesel	78	0.36		
LR CBP-C&E -3	Compactor, Plate, 22"w x 35"	Plate Compactor	13.9	1	14	Diesel	8.5	0.43		
LR CBP-C&E -4	CAT LOADER/HOE 416 E	Rubber Tired Loader	3.15	1	3	Diesel	78	0.36		
LR CBP-C&E -4	Compactor, Trench Roller, Vib 32"w	Roller	6.25	1	6	Diesel	20	0.38		
LR CBP-C&E -5	CAT 14 M	Grader	108.1	3	36	Diesel	274	0.41		
LR CBP-C&E -5	Water Pump, 4" Diesel	Pumps	108.1	3	36	Diesel	10	0.74		
LR CBP-C&E -5	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	108.1	3	36	Diesel	156	0.38		
LR CBP-C&E -6	CAT LOADER/HOE 416 E	Rubber Tired Loader	124.6	5	25	Diesel	78	0.36		
LR CBP-C&E -6	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	124.6	5	25	Diesel or Hybrid	224	0.42		
LR CBP-C&E -6	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	124.6	5	25	Diesel or Hybrid	137	0.38		
LR CBP-C&E -6	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	124.6	5	25	Diesel or Hybrid	133	0.38		
LR CBP-C&E -7	Air Compressor 185 cfm	Crane	400	19	21	Diesel or Hybrid	100	0.29		
LR CBP-C&E -7	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lift	200	19	11	Diesel	78	0.36		
LR CBP-C&E -7	Grove RT Crane 80T, 275hp	Crane	400	19	21	Diesel	275	0.29		
LR CBP-C&E -7	Boom Truck, 12.5 Tn Boom	Crane	200	19	11	Diesel or Hybrid	100	0.29		
LR CBP-C&E -8	Portable, 300 Kw, Diesel 480hp	Generator	4340	1041	4	Diesel Tier 4	400	0.74		
LR CBP-C&E -8	CAT 962 H Wheel Loader	Rubber Tired Loader	6511	1041	6	Diesel or Hybrid	230	0.36		
LR CBP-C&E -9	Portable, 300 Kw, Diesel 480hp	Generator	6345	1372	5	Diesel Tier 4	400	0.74		
LR CBP-C&E -9	CAT 962 H Wheel Loader	Rubber Tired Loader	9517	1372	7	Diesel or Hybrid	230	0.36		
LR CBP-C&E -9	Bobcat S630 Skid Steer Loader	Skid Loader	3732	1372	3	Diesel	74	0.37		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Lambert Rd Conc Batch Plant - Central & Eastern
Options 5A, 5B, 6A, 6B

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
LR CBP-C&E -7	400A, Electric Welder	400	19	15	316
LR CBP-C&E -8	400A, Electric Welder	511	1041	15	7
LR CBP-C&E -9	400A, Electric Welder	746	1372	15	8

Vehicle Inventory for Lambert Rd Conc Batch Plant - Central & Eastern
Options SA, SB, 6A, 6B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/Trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (mpg) (if known)	Fuel (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site													
LR CBP-CBE -1	Pickup, 1/2T, 2wd	Materials from Sacramento	6	128	0.6	225	38	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
LR CBP-CBE -2	Pickup, 1/2T, 2wd	Materials from Sacramento	1	31	0.6	54	54	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
LR CBP-CBE -2	Cat 30mgpl w/Cat 770, 512HP	Materials from Sacramento	1	15	0.6	27	27	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -2	Truck, Flatbed, 10T, 18wy	Grader from Sacramento	1	1	0.6	1	1.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -2	Truck, Flatbed, 10T, 18wy	Dozer and Roller to and from Sacramento	2	2	0.6	4	2.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -2	Truck/ End Dump/ 16-20cy /18wy	Gravel from Sacramento	1	939	0.6	1657	1657	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -3	Truck, Flatbed, 10T, 18wy	Materials from Sacramento	1	14	0.6	25	25	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -3	Truck, Flatbed, 10T, 18wy	Loader and Compactor from Sacramento	1	1	0.6	2	2.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -4	Truck, End Dump, 10-13cy, 18wy	Materials from Sacramento	1	6	0.6	11	11	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -4	Truck, Flatbed, 10T, 18wy	Compactor to Sacramento	1	1	0.6	1	1.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -5	Pickup, 1/4T, 4wd	Materials from Sacramento	3	108	0.6	191	64	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
LR CBP-CBE -5	Truck/ End Dump/ 16-20cy /18wy	Base Rock from Sacramento	1041	579	0.6	1021	1	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -5	Truck, Flatbed, 10T, 18wy	Roller to and from Sacramento	2	1	0.6	2	1.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -5	Truck, Flatbed, 10T, 18wy	Grader to Sacramento	1	1	0.6	1	1.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -6	Truck, Flatbed, 10T, 18wy	Paver and two Rollers to and from Sacramento	2	3	0.6	6	3.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -6	Truck & Bottom Dump/ 25cy/ 30T	Asphalt, Hot Mix Materials from Sacramento	5	388.3	0.6	685	137	Franklin Boulevard to/from Sacramento	17	34	Diesel Tier 4		
LR CBP-CBE -6	Truck, Flatbed, 10T, 18wy	Loader to Sacramento	1	1	0.6	1	1.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -7	Pickup, 1/2T, 2wd	Materials from Sacramento	19	400	0.6	706	37	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
LR CBP-CBE -7	Truck, Flatbed, 10T, 18wy	Two Cranes and Aerial Lift to and from Sacramento	2	3	0.6	6	3.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -8	Pickup, 1/2T, 2wd	Materials from Sacramento	1041	2553	0.6	4506	4	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
LR CBP-CBE -8	Truck, Flatbed, 10T, 18wy	Two loaders from Sacramento	1	1	0.6	2	2.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -8	Truck/ End Dump/ 16-20cy /18wy	Cement from Sacramento	1041	1027	0.6	1813	2	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -8	Truck/ End Dump/ 16-20cy /18wy	Concrete Aggregate from Sacramento	1041	1923	0.6	3394	3	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -8	Truck/ End Dump/ 16-20cy /18wy	Concrete Sand from Sacramento	1041	1535	0.6	2709	3	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -8	Truck/ End Dump/ 16-20cy /18wy	Flyash from Sacramento	1041	150	0.6	264	0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -9	Pickup, 1/2T, 2wd	Materials from Sacramento	1372	3732	0.6	6586	5	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
LR CBP-CBE -9	Truck/ End Dump/ 16-20cy /18wy	Cement from Sacramento	1372	416	0.6	734	1	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -9	Truck/ End Dump/ 16-20cy /18wy	Concrete Aggregate from Sacramento	1372	4007	0.6	7072	5	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -9	Truck/ End Dump/ 16-20cy /18wy	Concrete Sand from Sacramento	1372	3198	0.6	5644	4	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -9	Truck/ End Dump/ 16-20cy /18wy	Flyash from Sacramento	1372	311	0.6	549	0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site													
LR CBP-CBE -1	CAT 730 30T, Articulated End Dump	Dumpers	6	766.65	not applicable	not applicable	not applicable	on site: assume 5 miles/hour		3833	Diesel Tier 4 or Hybrid Diesel		
LR CBP-CBE -1	Truck, End Dump, 10-13cy, 18wy	Dumpers	6	766.65	not applicable	not applicable	not applicable	on site: assume 5 miles/hour		3833	Diesel		

Employees Required to Lambert Rd Conc Batch Plant - Central & Eastern Options 5A, 5B, 6A, 6B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip
LR CBP-C&E -1	Operator G4 Dozer & Push Cat	255.55	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -1	Operator G2 Excavator 3.5 to 7.0	255.55	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -1	OPERATING ENGINEER FOREMAN	127.75	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -1	Teamster G2 Hwy ED 6-8cy, Wate	766.65	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -1	Teamster G3 ED 8-24cy, Water>7	766.65	10		Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-1						
LR CBP-C&E -2	Laborer G2 General	3.65	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -2	Operator G5 Compactor w-blade	30.55	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -2	Operator G4 Dozer & Push Cat	30.55	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -2	OPERATING ENGINEER FOREMAN	30.55	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -2	Operator G2 Finish Blade	15.3	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -2	Teamster G2 Hwy ED 6-8cy, Water<7	15.3	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -2	Teamster G3 ED 8-24cy, Water>7	15.3	10		Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-2						
LR CBP-C&E -3	Laborer G1 Pipe layers	55.55	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -3	Laborer Foreman	13.9	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -3	Operator G3 BH-Loader>3/4cy	27.8	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -3	Teamster G1 Hwy ED<6cy, Flatbed	20.85	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -3	Teamster G2 Hwy ED 6-8cy, Water<7	6.95	10		Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-3						
LR CBP-C&E -4	Laborer G1 Pipe layers	12.5	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -4	Laborer G1 Power Tamper	6.25	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -4	Operator G4 Loader <4.1cy	3.15	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -4	Teamster G2 Hwy ED 6-8cy, Water<7	6.25	10		Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-4						
LR CBP-C&E -5	Laborer G3 Flagman	216.25	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -5	Operator G7 Roller, Compactor	108.1	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -5	OPERATING ENGINEER FOREMAN	108.1	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -5	Operator G4 Grade Check	108.1	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -5	Operator G2 Finish Blade	108.1	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -5	Operator G8 Generator	21.6	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -5	Teamster G2 Hwy ED 6-8cy, Water<7	108.1	10		Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-5						
LR CBP-C&E -6	Laborer G2 General	498.35	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -6	Operator G5 Asphalt Roller	249.2	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -6	Operator G3 BH-Loader>3/4cy	124.6	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -6	OPERATING ENGINEER FOREMAN	124.6	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -6	Operator G4 Grade Check	124.6	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -6	Operator G5 Paver	124.6	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -6	Teamster G2 Hwy ED 6-8cy, Water<7	62.3	10		Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-6						
LR CBP-C&E -7	Carpenter Apprentice	400	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7	Carpenter Foreman	400	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7	Millwright	400	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7	Electrical Foreman	200	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7	Electrician Journeyman	400	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7	Iron Worker Journeyman Rebar/Stru	800	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7	Laborer G2 General	800	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7	Operator G2a Cranes 45 to 100 t	400	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7	Teamster G3 Boom Truck	200	10		Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-7						
LR CBP-C&E -8	Laborer G4 Clean-up	5106	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -8	Operator G3 Loader >4cy	7659	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -8	OPERATING ENGINEER FOREMAN	2553	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -8	Operator G5 Concrete Conveyor	2553	10		Sacramento to/from Franklin Boulevard	17

Marine Inventory for Lambert Rd Conc Batch Plant - Central & Eastern
Options 5A, 5B, 6A, 6B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Lambert Rd Conc Batch Plant - Central & Eastern
Options 5A, 5B, 6A, 6B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Lambert Rd Conc Batch Plant - Central & Eastern
Options 5A, 5B, 6A, 6B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving A
Options 5A, 5B, 6A, 6B

[illegible]

**Demolition Assumptions for Lambert Rd Conc Batch Plant - Central & Eastern
Options 5A, 5B, 6A, 6B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Dierssen Rd - Central & Eastern Access Road Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	DRd-C&E Access -1	1/18/2027	1/21/2027	4	4	10
Embankment	DRd-C&E Access -2	1/22/2027	1/26/2027	5	5	10
Culvert Pipe	DRd-C&E Access -3	1/27/2027	1/27/2027	1	1	10
Subdrain System	DRd-C&E Access -4	1/28/2027	2/9/2027	9	5	10
Road Base	DRd-C&E Access -5	2/10/2027	2/18/2027	7	5	10
Asphalt Paving	DRd-C&E Access -6	2/19/2027	2/22/2027	4	4	10
KRail and Signs	DRd-C&E Access -7	2/23/2027	3/16/2027	14	5	10
Intermediate Overlay	DRd-C&E Access -8	5/22/2030	5/24/2030	3	3	10
Final Overlay	DRd-C&E Access -9	7/21/2037	7/24/2037	4	4	10

Acres

7.2

Construction Schedule for Franklin Blvd RR - Central & Eastern Access Road
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Sub-Ballast	FB RR-C&E Access -1	6/10/2026	6/25/2026	12	5	10
Ballast	FB RR-C&E Access -2	6/26/2026	7/14/2026	15	5	10
Track	FB RR-C&E Access -3	7/15/2026	8/27/2026	32	5	10

Construction Schedule for Franklin Blvd - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	FB-C&E Access -1	11/24/2026	11/30/2026	5	5	10
Embankment	FB-C&E Access -2	12/1/2026	12/16/2026	12	5	10
Culvert Pipe	FB-C&E Access -3	12/17/2026	12/17/2026	1	1	10
Subdrain System	FB-C&E Access -4	12/18/2026	12/28/2026	9	5	10
Road Base	FB-C&E Access -5	12/29/2026	1/15/2027	14	5	10
Asphalt Paving	FB-C&E Access -6	1/18/2027	1/21/2027	4	4	10
KRail and Signs	FB-C&E Access -7	1/22/2027	1/22/2027	1	1	10
Intermediate Overlay	FB-C&E Access -8	5/27/2030	5/29/2030	3	3	10
Final Overlay	FB-C&E Access -9	7/24/2037	7/29/2037	4	4	10

Acres

5

Construction Schedule for Twin Cities Ring Levee - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Construct Ring Levee	TCC RL-C&E -1	2/28/2028	6/19/2028	96	5	10

Acres44.8

Construction Schedule for Twin Cities Rd - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	TC Rd-C&E Access -1	1/5/2026	1/7/2026	3	3	10
Culvert Pipe & Subdrain System	TC Rd-C&E Access -2	1/8/2026	1/19/2026	10	5	10
Road Base	TC Rd-C&E Access -3	1/20/2026	2/9/2026	15	5	10
Asphalt Paving & KRail and Signs	TC Rd-C&E Access -4	2/10/2026	2/16/2026	5	5	10
Intermediate Overlay	TC Rd-C&E Access -5	6/10/2030	6/12/2030	3	3	10
Final Overlay	TC Rd-C&E Access -6	9/30/2037	10/5/2037	5	5	10

Acres **3.9**

Construction Schedule for Twin Cities Complex - Central Tunnel Shaft
Options 5A, 5B

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Mobilize, Excavate, & Mobilize	TCC-Central - 1	2/2/2026	6/5/2026	90	5	10
Embankment	TCC-Central - 2	3/12/2026	4/21/2026	29	5	10
Subdrain	TCC-Central - 3	4/22/2026	6/9/2026	34	5	10
Management, Engineering, & Field Labor - Reach 2	TCC-Central - 4	3/17/2027	3/26/2036	1217	3	10
Clear and Grub	TCC-Central - 5	5/12/2027	7/12/2027	44	5	10
Excavation, Grading, & Compaction - Reach 2	TCC-Central - 6	7/13/2027	4/24/2028	204	5	10
Raise Shaft Pad for Reach 2	TCC-Central - 7	9/7/2027	4/3/2028	149	5	10
Set Strips, & Concrete for Reach 2	TCC-Central - 8	8/16/2027	11/12/2027	65	5	10
Place Guide Walls Concrete for Reach 2	TCC-Central - 9	4/3/2028	6/20/2028	57	5	10
Slurry Wall, Place Concrete & Rebar, Slurry Wall, Remove Guide Wall, & add Top Beam for Reach 2	TCC-Central - 10	4/27/2028	8/17/2028	81	5	10
Place Guide Walls Concrete for Reach 1	TCC-Central - 11	8/8/2028	8/30/2028	17	5	10
Slurry Wall, Place Concrete & Rebar, Slurry Wall, Remove Guide Wall, & add Top Beam for Reach 1	TCC-Central - 12	8/29/2028	1/3/2029	92	5	10
Excavate Shaft for Reach 2	TCC-Central - 13	1/4/2029	4/4/2029	65	5	10
Management, Engineering, & Field Labor - Reach 1	TCC-Central - 14	11/21/2029	7/20/2034	1215	5	10
Shaft Setup for Reach 1	TCC-Central - 15	11/16/2029	12/10/2029	18	5	10
Excavate Shaft for Reach 1	TCC-Central - 16	4/4/2029	7/3/2029	65	5	10
Place Tremie Seal Rebar, Cooling Pipes, & Seal for Reaches 1 & 2	TCC-Central - 17	6/19/2029	7/31/2029	43	7	24
Dewater Shaft for Reaches 1 & 2	TCC-Central - 18	7/17/2029	8/7/2029	21	7	24
Place TBM Cradle Rebar and Cradle Pour for Reaches 1 & 2	TCC-Central - 19	7/24/2029	8/20/2029	20	5	10
Breakout Slurry Wall for TBM for Reaches 1 & 2	TCC-Central - 20	8/6/2029	9/17/2029	41	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner Reaches 1 & 2	TCC-Central - 21	9/3/2029	1/9/2030	93	5	10
Erect Gantry Crane for Reaches 1 & 2	TCC-Central - 22	11/28/2029	12/19/2029	16	5	10
TBM Assembly including Shaft Utilities for Reach 2	TCC-Central - 23	12/10/2029	6/6/2030	105	5	10
Tunneling Operations including Equipment Delivery for Reach 2	TCC-Central - 24	6/6/2030	12/4/2036	2064	6	20
TBM Assembly including Shaft Utilities for Reach 1	TCC-Central - 25	6/14/2031	10/3/2031	80	5	10
Tunneling Operations including Equipment Delivery for Reach 1	TCC-Central - 26	7/9/2031	5/5/2034	736	6	20
Remove TBM and Tunnel Equipment for Reach 1	TCC-Central - 27	5/5/2034	7/28/2034	61	5	10
Remove TBM and Tunnel Equipment for Reach 2	TCC-Central - 28	1/22/2036	3/26/2037	306	5	10
Site Restoration	TCC-Central - 29	3/26/2036	9/30/2036	135	5	10

Total Site Acres

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Offroad Equipment (Fossil Fuel) Inventory for Twin Cities Complex - Central Tunnel Shaft
Options 5A, 5B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
TCC-Central - 1	Air Compressor 185 CFM	Air Compressor	298.66	90	3.3	Diesel Tier 4	49	0.48		
TCC-Central - 1	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	149.34	90	1.7	Diesel or Hybrid	75	0.31		
TCC-Central - 1	Boom Truck, 12.5 Tn Boom	Crane	149.34	90	1.7	Diesel or Hybrid	100	0.29		
TCC-Central - 1	CAT D6LGPDozer w winch	Crawler Tractor	364.43	90	4.0	Diesel or Hybrid	179	0.43		
TCC-Central - 1	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	182.21	90	2.0	Diesel	384	0.38		
TCC-Central - 1	Hydraulic 9 Ton Crane	Crane	400	90	4.4	Diesel	85	0.29		
TCC-Central - 1	Hydraulic 40 Ton Crane	Crane	400	90	4.4	Diesel	300	0.29		
TCC-Central - 1	CAT Forklift 5,500 LB	Aerial Lift	400	90	4.4	Diesel	63	0.31		
TCC-Central - 2	CAT D6LGPDozer w winch	Crawler Tractor	232.83	29	8.0	Diesel or Hybrid	179	0.43		
TCC-Central - 2	Disk, Towed	Off-Highway Tractor	232.83	29	8.0	Diesel	140	0.44		
TCC-Central - 2	CAT 14 M	Grader	116.41	29	4.0	Diesel	274	0.41		
TCC-Central - 2	Water Pump 4" Electric	Pumps	27.94	29	1.0	Diesel	10	0.74		
TCC-Central - 2	CAT 825, Roller	Rollers	232.83	29	8.0	Diesel	315	0.38		
TCC-Central - 3	CAT LOADER/HOE 416 E	Rubber Tired Loader	87.31	34	2.6	Diesel	78	0.36		
TCC-Central - 3	Compactor, Trench Roller, Vib 32"w	Roller	174.63	34	5.1	Diesel	20	0.38		
TCC-Central - 5	CAT D8 Dozer	Crawler Tractor	990.0	44	22.5	Diesel Tier 4 or Hybrid Diesel	179	0.43		
TCC-Central - 5	Grader 16H - 16' Blade	Grader	990.0	44	22.5	Diesel	285	0.41		
TCC-Central - 5	623G Scraper Elevate 21 CY	Scaper	1980.0	44	45.0	Diesel	359	0.48		
TCC-Central - 6	CAT 825H Compactor	Rollers	440	204	10	Diesel	145	0.38		
TCC-Central - 6	CAT CB-634D Vibratory 84"	Rollers	440	204	10	Diesel	315	0.38		
TCC-Central - 6	CAT Grader 16H	Grader	1850.3	204	9.1	Diesel	285	0.41		
TCC-Central - 6	CAT 980 Loader 7.5 CY	Grader	440	204	10	Diesel	285	0.41		
TCC-Central - 6	CAT D8 Dozer	Crawler Tractor	4325.45	204	21.2	Diesel Tier 4 or Hybrid Diesel	179	0.43		
TCC-Central - 6	623G Scraper Elevate 21 CY	Scaper	1760	204	34	Diesel	359	0.48		
TCC-Central - 7	CAT CB-634D Vibratory 84"	Rollers	1610.3	149	10.8	Diesel	315	0.38		
TCC-Central - 7	CAT Grader 16H	Grader	1610.3	149	10.8	Diesel	285	0.41		
TCC-Central - 7	CAT D8 Dozer	Crawler Tractor	1610.3	149	10.8	Diesel Tier 4 or Hybrid Diesel	179	0.43		
TCC-Central - 7	Manitowoc 777 200 Ton Crane	Crane	95.7	149	0.6	Diesel	760	0.29		
TCC-Central - 8	CAT CB-634D Vibratory 84"	Rollers	3852.63	65	59.3	Diesel	145	0.38		
TCC-Central - 8	CAT Grader 16H	Graders	3852.63	65	59.3	Diesel	285	0.41		
TCC-Central - 8	CAT D8 Dozer	Crawler Tractor	3852.63	65	59.3	Diesel	328	0.43		
TCC-Central - 8	Hydraulic 9 Ton Crane	Crane	453.22	65	7.0	Diesel	85	0.29		
TCC-Central - 8	Manitowoc 777 200 Ton Crane	Crane	485.9	65	7.5	Diesel	760	0.29		
TCC-Central - 9	CAT Hyd Excavator 1CY	Excavator	9.2	57	0.2	Diesel	138	0.38		
TCC-Central - 9	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	9.2	57	0.2	Diesel or Hybrid	130	0.36		
TCC-Central - 10	Manitowoc 777 200 Ton Crane	Crane	553.8	81	6.8	Diesel	760	0.29		
TCC-Central - 10	1600 CFM Compressor Diesel	Air Compressor	485.9	81	6.0	Diesel Tier 4	540	0.48		
TCC-Central - 10	Hydraulic 55 Ton Crane	Crane	971.8	81	12.0	Diesel	350	0.29		
TCC-Central - 10	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	849.4	81	10.5	Diesel or Hybrid	130	0.36		
TCC-Central - 10	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	485.9	81	6.0	Diesel	8	0.56		
TCC-Central - 10	Slurry Wall Techniwell	Pumps	485.9	81	6.0	Diesel	500	0.74		
TCC-Central - 10	CAT Hyd Excavator 1CY	Excavator	363.5	81	4.5	Diesel	138	0.38		
TCC-Central - 10	250 CFM Compressor Diesel	Air Compressor	13.4	81	0.2	Diesel Tier 3	75	0.48		
TCC-Central - 11	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	9.2	17	0.5	Diesel or Hybrid	130	0.36		
TCC-Central - 11	CAT Hyd Excavator 1CY	Excavator	9.6	17	0.6	Diesel	138	0.38		
TCC-Central - 12	CAT Hyd Excavator 1CY	Excavator	363.5	92	4.0	Diesel	138	0.38		
TCC-Central - 12	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	849.4	92	9.2	Diesel or Hybrid	130	0.36		
TCC-Central - 12	Hydraulic Excavator to 3.5 tons = Kobelco SK485LC' 2.75cy' 345 hp Excavator	Excavator	363.5	92	4.0	Diesel	345	0.38		
TCC-Central - 12	1600 CFM Compressor Diesel	Air Compressor	485.9	92	5	Diesel Tier 4	540	0.48		
TCC-Central - 12	Hydraulic 55 Ton Crane	Crane	971.8	92	10.6	Diesel	350	0.29		
TCC-Central - 12	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	485.9	92	5.3	Diesel	8	0.56		
TCC-Central - 12	Slurry Wall Techniwell	Pumps	485.9	92	5.3	Diesel	500	0.74		
TCC-Central - 12	Manitowoc 777 200 Ton Crane	Crane	485.9	92	5.3	Diesel	760	0.29		
TCC-Central - 13	Manitowoc 777 200 Ton Crane	Crane	629.5	65	9.7	Diesel	760	0.29		
TCC-Central - 15	Hydraulic 40 Ton Crane	Crane	400	18	22.2	Diesel	300	0.29		
TCC-Central - 15	Hydraulic 25 Ton Crane	Crane	160	18	8.9	Diesel	100	0.29		
TCC-Central - 15	Hydraulic 9 Ton Crane	Crane	400	18	22.2	Diesel	85	0.29		
TCC-Central - 15	CAT Forklift 5,500 LB	Aerial Lift	400	18	22.2	Diesel	63	0.31		
TCC-Central - 15	Heavy Duty Mechanic Welder	Welder	160	18	8.9	Diesel	400	0.45		
TCC-Central - 15	1600 CFM Compressor Diesel	Air Compressor	160	18	8.9	Diesel Tier 4	540	0.48		
TCC-Central - 15	Truck Crane Lattice Boom 90T	Crane	160	18	8.9	Diesel Tier 4	300	0.29		
TCC-Central - 15	Telescope RT Forklift 5500	Forklift	160	18	8.9	Diesel	63	0.2		
TCC-Central - 16	Manitowoc 777 200 Ton Crane	Crane	629.5	65	9.7	Diesel	760	0.29		
TCC-Central - 17	Manitowoc 777 200 Ton Crane	Crane	222.9	43	5.2	Diesel	760	0.29		
TCC-Central - 17	Hydraulic 40 Ton Crane	Crane	153	43	3.6	Diesel	300	0.29		
TCC-Central - 17	Hydraulic 25 Ton Crane	Crane	190	43	4.4	Diesel	100	0.29		
TCC-Central - 17	250 CFM Compressor Diesel	Air Compressor	13.4	43	0.3	Diesel Tier 3	75	0.48		
TCC-Central - 18	Hydraulic 15 Ton Crane	Crane	191.3	21	9.1	Diesel	85	0.29		
TCC-Central - 18	Dewater Pump 6"	Pump	765.2	21	36.4	Diesel	50	0.74		
TCC-Central - 18	150 KW Diesel Generator	Generator	191.3	21	9.1	Diesel Tier 4	183	0.74		
TCC-Central - 19	Manitowoc 777 200 Ton Crane	Crane	108.7	20	5.4	Diesel	760	0.29		
TCC-Central - 19	Trailer Conc Pump 100 CY HR	Pump	40.7	20	2.0	Diesel	200	0.74		
TCC-Central - 19	250 CFM Compressor Diesel	Air Compressor	40.7	20	2.0	Diesel Tier 3	75	0.48		
TCC-Central - 20	250 CFM Compressor Diesel	Air Compressor	520.8	41	12.7	Diesel Tier 3	75	0.48		
TCC-Central - 20	Manitowoc 777 200 Ton Crane	Crane	520.8	41	12.7	Diesel	760	0.29		
TCC-Central - 21	250 CFM Compressor Diesel	Air Compressor	1061.7	93	11.4	Diesel Tier 3	75	0.48		

TCC-Central - 21	Manitowoc 777 200 Ton Crane	Crane	635.8	93	6.8	Diesel	760	0.29
TCC-Central - 21	Trailer Conc Pump 100 CY HR	Pump	521.5	93	5.6	Diesel	200	0.74
TCC-Central - 21	Manitowoc 999-275 Ton Crane	Crane	351.2	93	3.8	Diesel	900	0.29
TCC-Central - 22	1600 CFM Compressor Diesel	Air Compressor	160	16	10.0	Diesel Tier 4	540	0.48
TCC-Central - 22	Hydraulic 25 Ton Crane	Crane	160	16	10.0	Diesel	100	0.29
TCC-Central - 22	Truck Crane Lattice Boom 90T	Crane	160	16	10.0	Diesel Tier 4	300	0.29
TCC-Central - 22	Telescope RT Forklift 5500	Forklift	160	16	10.0	Diesel	63	0.2
TCC-Central - 22	Heavy Duty Mechanic Welder	Welder	160	16	10.0	Diesel	400	0.45
TCC-Central - 23	250 CFM Compressor Diesel	Air Compressor	1932	105	18.4	Diesel Tier 3	75	0.48
TCC-Central - 23	Hydraulic 40 Ton Crane	Crane	756	105	7.2	Diesel	300	0.29
TCC-Central - 24	250 CFM Compressor Diesel	Air Compressor	30210.8	2064	14.6	Diesel Tier 3	75	0.48
TCC-Central - 24	Hydraulic 40 Ton Crane	Crane	13692	2064	6.6	Diesel	300	0.29
TCC-Central - 24	Hydraulic 9 Ton Crane	Crane	13692	2064	6.6	Diesel	85	0.29
TCC-Central - 24	CAT Forklift 5,500 LB	Aerial Lift	13692	2064	6.6	Diesel	63	0.31
TCC-Central - 24	CAT D8 Dozer	Crawler Tractor	9602.8	2064	4.7	Diesel Tier 4 or Hybrid Diesel	179	0.43
TCC-Central - 24	CAT 980 Loader 7.5 CY	Grader	9602.8	2064	4.7	Diesel	285	0.41
TCC-Central - 24	Manitowoc 777 200 Ton Crane	Crane	222.9	2064	0.1	Diesel	760	0.29
TCC-Central - 24	Hydraulic 25 Ton Crane	Crane	190	2064	0.1	Diesel	100	0.29
TCC-Central - 24	Grout Pump	Cement & Mortar Mix	915.9	2064	0.4	Diesel	500	0.56
TCC-Central - 24	Grout Mixer	Cement & Mortar Mix	915.9	2064	0.4	Diesel	70	0.56
TCC-Central - 25	250 CFM Compressor Diesel	Air Compressor	1932	80	24.2	Diesel Tier 3	75	0.48
TCC-Central - 25	Hydraulic 40 Ton Crane	Crane	756	80	9.5	Diesel	300	0.29
TCC-Central - 26	250 CFM Compressor Diesel	Air Compressor	10793	736	14.7	Diesel Tier 3	75	0.48
TCC-Central - 26	Hydraulic 40 Ton Crane	Crane	6373.9	736	8.7	Diesel	300	0.29
TCC-Central - 26	Hydraulic 9 Ton Crane	Crane	6373.9	736	8.7	Diesel	85	0.29
TCC-Central - 26	CAT Forklift 5,500 LB	Aerial Lift	6373.9	736	8.7	Diesel	63	0.31
TCC-Central - 26	CAT D8 Dozer	Crawler Tractor	5645.6	736	7.7	Diesel Tier 4 or Hybrid Diesel	179	0.43
TCC-Central - 26	Grout Pump	Cement & Mortar Mix	532.2	736	0.7	Diesel	500	0.56
TCC-Central - 26	Grout Mixer	Cement & Mortar Mix	532.2	736	0.7	Diesel	70	0.56
TCC-Central - 27	Hydraulic 55 Ton Crane	Crane	1315.6	61	21.6	Diesel	350	0.29
TCC-Central - 27	Manitowoc 777 200 Ton Crane	Crane	600.6	61	9.8	Diesel	760	0.29
TCC-Central - 27	Telescope RT Forklift 5500	Forklift	476.7	61	7.8	Diesel	63	0.2
TCC-Central - 27	1600 CFM Compressor Diesel	Air Compressor	100	61	1.6	Diesel Tier 4	540	0.48
TCC-Central - 27	Hydraulic 25 Ton Crane	Crane	100	61	1.6	Diesel	100	0.29
TCC-Central - 27	Truck Crane Lattice Boom 90T	Crane	100	61	1.6	Diesel Tier 4	300	0.29
TCC-Central - 27	Heavy Duty Mechanic Welder	Welder	100	61	1.6	Diesel	400	0.45
TCC-Central - 27	Hydraulic 40 Ton Crane	Crane	76.5	61	1.3	Diesel	300	0.29
TCC-Central - 27	Hydraulic 9 Ton Crane	Crane	76.6	61	1.3	Diesel	85	0.29
TCC-Central - 27	CAT Forklift 5,500 LB	Aerial Lift	76.5	61	1.3	Diesel	63	0.31
TCC-Central - 28	Hydraulic 55 Ton Crane	Crane	343	306	1.1	Diesel	350	0.29
TCC-Central - 28	Manitowoc 777 200 Ton Crane	Crane	715	306	2.3	Diesel	760	0.29
TCC-Central - 28	Telescope RT Forklift 5500	Forklift	636	306	2.1	Diesel	63	0.2
TCC-Central - 28	1600 CFM Compressor Diesel	Air Compressor	100	306	0.3	Diesel Tier 4	540	0.48
TCC-Central - 28	Hydraulic 25 Ton Crane	Crane	100	306	0.3	Diesel	100	0.29
TCC-Central - 28	Truck Crane Lattice Boom 90T	Crane	100	306	0.3	Diesel Tier 4	300	0.29
TCC-Central - 28	Heavy Duty Mechanic Welder	Welder	100	306	0.3	Diesel	400	0.45
TCC-Central - 29	CAT D8Rii, Dozer w winch	Crawler Tractor	2150	135	15.9	Diesel	310	0.43
TCC-Central - 29	CAT 12 M	Grader	700	135	5.2	Diesel	173	0.41
TCC-Central - 29	CAT 815, Roller	Rollers	500	135	3.7	Diesel	170	0.38
TCC-Central - 29	CAT 621G Scraper, Conventional	Scraper	500	135	3.7	Diesel	330	0.48
TCC-Central - 29	Cat 6 mgal w/ CAT 725 Tractor, 320hp	Crawler Tractor	4510	135	33.4	Diesel	320	0.43
TCC-Central - 29	CAT 988 H Wheel Loader	Rubber Tired Loader	5645	135	41.8	Diesel	400	0.36
TCC-Central - 29	CAT Hyd Excavator 1CY	Excavator	190.2	135	1.4	Diesel	138	0.38
TCC-Central - 29	Manitowoc 777 200 Ton Crane	Crane	240	135	1.8	Diesel	760	0.29
TCC-Central - 29	CAT 966 Loader 5.5 CY	Rubber Tired Loader	190.2	135	1.4	Diesel	286	0.36
TCC-Central - 29	CAT 390 MASS EXC	Excavator	700	135	5.2	Diesel	534	0.38
TCC-Central - 29	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	2100	135	15.6	Diesel	345	0.38
TCC-Central - 29	Farm Tractor, All Wheel Drive, 285 HP	Off-Highway Tractor	810	135	6.0	Diesel	80	0.44
TCC-Central - 29	CAT 966 GII Wheel Loader	Rubber Tired Loader	100	135	0.7	Diesel	170	0.36
TCC-Central - 29	CAT D9R, Dozer w ripper	Crawler Tractor	1560	135	11.6	Diesel	410	0.43
TCC-Central - 29	CAT 631G Scraper, Conventional	Scraper	1650	135	12.2	Diesel	515	0.48
TCC-Central - 29	Disk, Towed	Off-Highway Tractor	280	135	2.1	Diesel	140	0.44
TCC-Central - 29	Hydro Mulcher, 18 HP	Pump	100	135	0.7	Diesel	25	0.29

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Twin Cities Complex - Central Tunnel Shaft
Options 5A, 5B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
TCC-Central - 1	400A, Electric Welder	298.66	90	0.25	1
TCC-Central - 2	400A, Electric Welder	7.53	2200	0.25	0
TCC-Central - 2	Light Plant, 4 lite, 1000w	931	29		
TCC-Central - 10	Gantry Crane	420	81	0.25	1
TCC-Central - 23	Gantry Crane	1302	105	0.25	3
TCC-Central - 23	Axial Fan 114,000 CFM	1428	105	50	680
TCC-Central - 24	Gantry Crane	40614	2064	0.25	5
TCC-Central - 24	Axial Fan 114,000 CFM	300555	2064	50	7,281
TCC-Central - 25	Gantry Crane	1050	80	0.25	3
TCC-Central - 25	Axial Fan 114,000 CFM	1344	80	50	840
TCC-Central - 26	Gantry Crane	10526.9	736	0.25	4
TCC-Central - 26	Axial Fan 114,000 CFM	110215	736	50	7,487
TCC-Central - 27	Gantry Crane	526.7	61	0.25	2
TCC-Central - 28	Gantry Crane	386	306	0.25	0
TCC-Central - 29	Gantry Crane	14700	135	0.25	27

Electricity for TBM Operations included in the Summary Workbook

Vehicle Inventory for Twin Cities Complex - Central Tunnel Shaft
Options SA, SB

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. office)	# day	Vehicle Hours	Hours/trip	# of Vehicles Trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
TCC-Central - 1	Pickup, 1/2T, 2wd	Materials from Sacramento	90	389.8	0.6	688	7.6	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 1	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	90	400.0	0.6	706	7.8	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 1	Truck, Flatbed, 10T, Hwy	Crane, Tractor and Aerial Lift from Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 1	Truck, Flatbed, 10T, Hwy	Excavator, Two Cranes, Aerial Lift from and to Sacramento	2	2.3	0.6	4	2.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 2	Pickup, 1/2T, 2wd	Materials from Sacramento	29	232.8	0.6	411	14.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 2	Truck, Flatbed, 10T, Hwy	Roller from Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 2	Truck, Flatbed, 10T, Hwy	Tractor to Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 2	Truck, Flatbed, 10T, Hwy	Grader from and to Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 3	Truck, Flatbed, 10T, Hwy	Loader from and to Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 5	Truck, Flatbed, 10T, Hwy	Dozer, Scraper, and Grader from Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 6	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	204	133.2	0.6	235	1.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 6	Truck, Flatbed, 10T, Hwy	Roller from Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 6	Truck, Flatbed, 10T, Hwy	Roller, Grader, and Scraper to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 6	Truck, Flatbed, 10T, Hwy	Loader from and to Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 7	Highway Dump Truck 18 CY	Materials from Sacramento	149	96.3	0.6	170	1.1	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 7	Truck, Flatbed, 10T, Hwy	Grader from Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 7	Truck, Flatbed, 10T, Hwy	Two Cranes from and to Sacramento	2	2.3	0.6	4	2.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 8	Truck Flatbed 4 T Highway	Rebar from Sacramento	65	8.5	0.6	15	0.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 8	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	65	39.7	0.0	1190	18.3	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 8	Truck, Flatbed, 10T, Hwy	Dozer, Grader, and Roller to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 8	Truck, Flatbed, 10T, Hwy	Crane from and to Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 9	Truck, Flatbed, 10T, Hwy	Excavator and Loader from Sacramento	1	1.1	0.6	2	2.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 9	Truck Flatbed 4 T Highway	Rebar from Sacramento	57	33.4	0.6	59	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 9	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	57	45.8	0.0	1374	24.1	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 9	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	57	96.3	0.6	170	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 10	Truck, Flatbed, 10T, Hwy	Excavator and Two Cranes from Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 11	Truck Flatbed 4 T Highway	Rebar from Sacramento	17	0.6	0.6	1	0.1	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 11	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	17	1.8	0.0	54	3.2	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 12	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	92	38.3	0.0	1150	12.5	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 12	Truck Flatbed 4 T Highway	Rebar from Sacramento	92	34.0	0.6	60	0.7	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 12	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	92	96.3	0.6	170	1.8	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 12	Truck, Flatbed, 10T, Hwy	Two Excavators, Loader, and Crane from Sacramento	1	2.3	0.6	4	4.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 15	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	18	96.3	0.6	170	9.4	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 15	Truck, Flatbed, 10T, Hwy	Five Cranes and Aerial Lift from Sacramento	1	3.4	0.6	6	6.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 17	Truck Flatbed 4 T Highway	Rebar from Sacramento	43	17.0	0.6	30	0.7	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 17	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	43	83.7	0.0	2512	58.4	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 18	Truck, Flatbed, 10T, Hwy	Crane from and to Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 19	Truck Flatbed 4 T Highway	Rebar from Sacramento	20	2.3	0.6	4	0.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 19	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	20	6.0	0.0	180	9.0	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 20	Truck Flatbed 4 T Highway	Rebar from Sacramento	41	5.1	0.6	9	0.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 21	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	93	29.5	0.0	884	9.5	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 23	Truck, Flatbed, 10T, Hwy	Pre-Cast Segments from Sacramento	105	275.4	0.6	486	4.6	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 24	Truck Flatbed 4 T Highway	Materials from Sacramento	2064	147.3	0.6	260	0.1	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 24	Truck Flatbed 4 T Highway	Materials from Sacramento	2064	254.4	0.6	449	0.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 24	Truck, Flatbed, 10T, Hwy	Pre-Cast Segments from Sacramento	2064	11252.9	0.6	19858	9.6	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 24	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	2064	108407.0	0.6	191306	92.7	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 25	Truck, Flatbed, 10T, Hwy	Pre-Cast Segments from Sacramento	80	69.1	0.6	122	1.5	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 26	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	736	39280.5	0.6	69319	94.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 26	Truck, Flatbed, 10T, Hwy	Dozer Tractor and Loader Grader to Sacramento	1	1.1	0.6	2	2.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 26	Truck, Flatbed, 10T, Hwy	Pre-Cast Segments from Sacramento	736	6343.8	0.6	11195	15.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 27	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	736	1847.2	0.6	3260	4.4	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 27	Truck, Flatbed, 10T, Hwy	Three Cranes to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 28	Truck, Flatbed, 10T, Hwy	Remove TBM to Sacramento	306	180.0	0.6	318	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 28	Truck, Flatbed, 10T, Hwy	Two Aerial Lifts and Crane to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	

TCC Central - 29	Truck, Flatbed, 10T, Hwy	Scraper, Four Tractors, Grader, Roller, Scraper, Loader, and Excavator to/from Sacramento	2	5.7	0.6	10	5.0	Twin Cities Complex to/from Sacramento	17	34	Diesel
TCC Central - 29	Truck, Flatbed, 10T, Hwy	Crane, Two Excavators, to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel
TCC Central - 29	Truck Flatbed 4 T Highway	Materials from Sacramento	135	100.9	0.6	178	1.3	Twin Cities Complex to/from Sacramento	17	34	Diesel
Vehicle Use on Unimproved Road Surface (no access roads at work and ride lots) -- on the Construction Site											Miles On-Site
TCC Central - 1	Articulated Rear Dump 22 CY/CAT 730	Dumpeer to move fill on-site	90	1093.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	5466		Diesel or Hybrid
TCC Central - 2	Cat 30mpg w/Cat 770, 511HP	Dumpers	29	116.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	582		Diesel
TCC Central - 3	Truck, End Dump, 10-13cy, Hwy	Dumpers	34	174.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	873		Diesel
TCC Central - 6	Water Tanker	Off-Highway Truck	204	240.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1200		Diesel
TCC Central - 7	Truck, End Dump, 10-13cy, Hwy	Dumpers for Filled from Twin Cities Complex Borrow	149	4725.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	23625		Diesel
TCC Central - 8	Concrete Pump Truck	Off-Highway Truck	65	68.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	340		Diesel
TCC Central - 9	CAT 730 Rear Dump	Dumper	57	148	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	742		Diesel or Hybrid
TCC Central - 9	CAT 725 Tractor, 320hp	Dumper	57	140	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	800		Diesel or Hybrid
TCC Central - 10	CAT 730 Rear Dump	Dumper	81	554	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2770		Diesel or Hybrid
TCC Central - 10	Articulated Rear Dump 22 CY/CAT 730	Dumpeer	81	485.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2430		Diesel or Hybrid
TCC Central - 10	Concrete Pump Truck	Off-Highway Truck	81	3005.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	15025		Diesel
TCC Central - 11	CAT 730 Rear Dump	Dumpeer	17	148	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	742		Diesel or Hybrid
TCC Central - 12	CAT 730 Rear Dump	Dumper	92	553.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2770		Diesel or Hybrid
TCC Central - 12	Articulated Rear Dump 22 CY/CAT 730	Dumpeer	92	485.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2430		Diesel or Hybrid
TCC Central - 17	Concrete Pump Truck	Off-Highway Truck	43	394.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1974		Diesel
TCC Central - 29	CAT 725 Tractor, 320hp	Dumper	135	255.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1275		Diesel
TCC Central - 29	Truck, End Dump, 10-13cy, Hwy	Dumpeer	135	8780.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	43900		Diesel

Employees Required to Twin Cities Complex - Central Tunnel Shaft
Options 5A, 5B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
TCC-Central - 1	Carpenter Apprentice	298.7	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Carpenter Foreman	298.7	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Carpenter Journeyman	597.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Electrical Foreman	149.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Electrician Journeyman	597.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Iron Worker Journeyman Rebar/Struct	597.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Laborer G2 General	597.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Operator G3a Cranes 45 t and under	298.7	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Teamster G3 Boom Truck	149.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Operator G4 Dozer & Push Cat	364.4	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Operator G2 Excavator 3.5 to 7.0 cy	182.2	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	OPERATING ENGINEER FOREMAN	91.1	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Teamster G3 ED 8-24cy, Water>7mgal	1093.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Bullgang Foreman	400.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Bullgang Laborer	800.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Mechanic / Welder	400.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Hyd Crane Operator	800.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Flat Truck Driver	400.0	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-1						
TCC-Central - 2	Laborer G2 General	27.9	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 2	Operator G5 Compactor w-blade	232.8	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 2	Operator G4 Dozer & Push Cat	232.8	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 2	OPERATING ENGINEER FOREMAN	232.8	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 2	Operator G2 Finish Blade	116.4	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 2	Teamster G3 ED 8-24cy, Water>7mgal	116.4	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-2						
TCC-Central - 3	Laborer G1 Pipe layers	349.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 3	Laborer G1 Power Tamper	174.6	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 3	Operator G3 BH-Loader>3/4cy	87.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 3	Teamster G2 Hwy ED 6-8cy, Water<7mgal	174.6	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-3						
TCC-Central - 4	Accountant	16128.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Concrete Superintendent	16128.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Cost Engineer	16128.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Electrical Superintendent	15552.8	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Environmental Manager	15552.8	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Equipment Superintendent	15552.8	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Field Engineer	12096.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	General Superintendent	16128.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Geotechnical Manager	15552.8	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Office Administrator	16128.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Office Manager	16128.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Payroll Clerk	16128.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Project Engineer	16128.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Project Manager	16128.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Purchasing Agent	16128.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	QC Manager	16128.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	QC Technician	8064.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Runner	16128.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Safety Engineer	31102.8	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Safety Manager	16128.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Schedule Engineer	8064.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Shift Engineers	31102.8	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Survey Party Chief	16128.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Survey Rod Man	16128.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Tunnel Superintendent	15552.8	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Tunnel Walkers	31102.8	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-4						
TCC-Central - 5	General Foreman	495.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 5	Dozer Operator	990.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 5	Grader Operator	990.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 5	Operator G4 Grade Check	495.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 5	Scraper Operator	1980.0	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-5						
TCC-Central - 6	General Foreman	2282.7	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Dozer Operator	4325.5	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Grader Operator	4325.5	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Operator G4 Grade Check	2042.7	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Scraper Operator	8170.9	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Grade Setter / Checker	240.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Loader Operator	240.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	General Laborer	480.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Flagger	480.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Compactor Operator	480.0	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-6						
TCC-Central - 7	Grade Setter / Checker	1610.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 7	Compactor Operator	1610.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 7	Dozer Operator	1610.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 7	Grader Operator	1610.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 7	Truck Driver	1610.3	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-7						
TCC-Central - 8	Hyd Crane Operator	453.2	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 8	General Laborer	809.4	10		Sacramento to/from Twin Cities Complex	17

TCC-Central - 8	Carpenter	1424.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 8	Carpenter Foreman	216.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 8	Iron Worker Foreman	377.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 8	Iron Worker	3770.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 8	Truck Driver	560.0	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-8					
TCC-Central - 9	Shifter	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	Lead Miner	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	Miner	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	Loader Operator	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	Excavator Operator	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	Truck Driver	146.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	Carpenter	654.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	Carpenter Foreman	163.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	General Laborer	15.3	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-9					
TCC-Central - 10	General Laborer	6493.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	General Foreman	1335.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Mechanic Welder	971.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Shaft Crane Operator	971.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Crane Oiler	971.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Truck Driver	553.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Hyd Crane Operator	971.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Loader Operator	849.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Shifter	1457.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Lead Miner	485.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Miner	3887.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Carpenter	81.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Carpenter Foreman	156.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Iron Worker Foreman	989.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Iron Worker	4929.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Excavator Operator	363.5	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-10					
TCC-Central - 11	Truck Driver	146.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 11	Loader Operator	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 11	Shifter	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 11	Lead Miner	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 11	Miner	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 11	Excavator Operator	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 11	Carpenter	623.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 11	Carpenter Foreman	7.7	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-11					
TCC-Central - 12	Mechanic / Welder	971.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Hyd Crane Operator	971.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Loader Operator	849.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	General Laborer	6491.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	General Foreman	13353.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Carpenter	112.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Carpenter Foreman	13.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Truck Driver	553.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Shifter	1457.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Lead Miner	485.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Miner	3887.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Iron Worker Foreman	989.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Iron Worker	4929.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Excavator Operator	363.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Shaft Crane Operator	971.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Crane Oiler	971.8	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-12					
TCC-Central - 13	Shaft Crane Operator	629.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 13	Toplander	629.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 13	Crane Oiler	629.5	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-13					
TCC-Central - 14	Accountant	6901.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Concrete Superintendent	6901.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Cost Engineer	6901.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Electrical Superintendent	6655.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Equipment Superintendent	6655.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Field Engineer	5176.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	General Superintendent	6901.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Geotechnical Manager	6655.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Office Administrator	6901.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Office Manager	6901.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Payroll Clerk	6901.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Project Engineer	6901.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Project Manager	6901.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Purchasing Agent	6901.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	QC Manager	6901.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	QC Technician	3450.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Runner	6901.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Safety Engineer	13310.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Safety Manager	6901.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Schedule Engineer	3450.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Shift Engineers	13310.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Survey Party Chief	6901.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Survey Rod Man	6901.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Tunnel Superintendent	6655.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Tunnel Walkers	13310.2	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-14					
TCC-Central - 15	Bulfgang Foreman	560.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Bulfgang Laborer	1760.0	10	Sacramento to/from Twin Cities Complex	17

TCC-Central - 15	Mechanic / Welder	560.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Hyd Crane Operator	960.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Flat Truck Driver	400.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Master Mechanic	480.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Shaft Crane Operator	160.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Crane Oiler	160.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Diver Contractor	40.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Electrician	160.0	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-15					
TCC-Central - 16	Shaft Crane Operator	629.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 16	Toplander	629.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 16	Crane Oiler	629.5	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-16					
TCC-Central - 17	Bottomlander	445.7	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	General Laborer	17.5	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Hyd Crane Operator	380.0	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Hyd Crane Operator	153.0	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Iron Worker	4790.3	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Iron Worker Foreman	598.8	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Lead Miner	95.0	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Miner	1957.6	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Shaft Crane Operator	445.7	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Shifter	693.8	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Toplander	1057.9	24	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-17					
TCC-Central - 18	Shifter	191.3	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 18	Lead Miner	191.3	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 18	Miner	1530.4	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 18	Hyd Crane Operator	191.3	24	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-18					
TCC-Central - 19	Crane Oiler	176.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Electrician	40.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Iron Worker	1086.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Iron Worker Foreman	135.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Lead Miner	40.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Mechanic Welder	40.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Shaft Crane Operator	176.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Shifter	176.6	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-19					
TCC-Central - 20	Bottomlander	520.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 20	Crane Oiler	520.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 20	Iron Worker	4166.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 20	Iron Worker Foreman	520.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 20	Shaft Crane Operator	520.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 20	Toplander	520.8	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-20					
TCC-Central - 21	Bottomlander	896.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Carpenter Foreman	26.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Concrete Pump Operator	422.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Crane Oiler	1264.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Electrician	417.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Lead Miner	1249.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Master Mechanic	114.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Mechanic Welder	1171.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Miner	6984.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Shaft Crane Operator	1364.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Shifter	1249.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Toplander	1364.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Truck Driver	16039.8	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-21					
TCC-Central - 22	Bullgang Foreman	160.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 22	Bullgang Laborer	960.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 22	Mechanic / Welder	160.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 22	Master Mechanic	480.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 22	Shaft Crane Operator	160.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 22	Crane Oiler	160.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 22	Electrician	160.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 22	Hyd Crane Operator	160.0	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-22					
TCC-Central - 23	Bottomlander	966.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Conveyor Belt Man	840.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Crane Oiler	966.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Electrician	3066.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Hyd Crane Operator	756.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Lead Miner	2142.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Mechanic / Welder	3066.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Miner	23222.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Shaft Crane Operator	966.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Shifter	2142.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	ST2G Mucker Operator	336.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	TBM Operator	2352.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Toplander	966.0	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-23					
TCC-Central - 24	Bottomlander	40614.9	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Bullgang Foreman	45416.5	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Bullgang Laborer	154281.9	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Conveyor Belt Man	36005.8	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Crane Oiler	40614.9	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Dozer Operator	19205.5	20	Sacramento to/from Twin Cities Complex	17

TCC-Central - 24	Electrician	67259.6	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Fanline Carrier Operator	31266.5	20		
TCC-Central - 24	Flat Truck Driver	13692.0	20		
TCC-Central - 24	Hyd Crane Operator	27384.1	20		
TCC-Central - 24	Lead Miner	36005.8	20		
TCC-Central - 24	Loader Operator	19205.5	20		
TCC-Central - 24	Master Mechanic	15626.9	20		
TCC-Central - 24	Mechanic / Welder	96578.6	20		
TCC-Central - 24	Miner	247288.4	20		
TCC-Central - 24	Operating Engineer	30928.8	20		
TCC-Central - 24	Operator G2 Plant Operator	30928.8	20		
TCC-Central - 24	Segment Carrier Operator	244077.1	20		
TCC-Central - 24	Shaft Crane Operator	40614.9	20		
TCC-Central - 24	Shifter	36005.8	20		
TCC-Central - 24	TBM Operator	72011.5	20		
TCC-Central - 24	Toplander	40614.9	20		
TCC-Central - 24	Utility Truck Operator	31724.4	20		
TCC-Central - 24	Man Transport Truck Operator	31724.4	20		
TOTAL TCC-Central-24					
TCC-Central - 25	Bottomlander	966.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Conveyor Belt Man	521.6	10		
TCC-Central - 25	Crane Oiler	966.0	10		
TCC-Central - 25	Electrician	3066.0	10		
TCC-Central - 25	Hyd Crane Operator	756.0	10		
TCC-Central - 25	Lead Miner	2142.0	10		
TCC-Central - 25	Mechanic / Welder	3066.0	10		
TCC-Central - 25	Miner	14364.0	10		
TCC-Central - 25	Segment Carrier Operator	2016.0	10		
TCC-Central - 25	Shaft Crane Operator	966.0	10		
TCC-Central - 25	Shifter	2142.0	10		
TCC-Central - 25	ST2G Mucker Operator	336.0	10		
TCC-Central - 25	TBM Operator	2352.0	10		
TCC-Central - 25	Toplander	966.0	10		
TOTAL TCC-Central-25					
TCC-Central - 26	Bottomlander	20455.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Bullgang Foreman	18110.4	20		
TCC-Central - 26	Bullgang Laborer	59693.8	20		
TCC-Central - 26	Conveyor Belt Man	11691.0	20		
TCC-Central - 26	Crane Oiler	20455.3	20		
TCC-Central - 26	Dozer Operator	11291.3	20		
TCC-Central - 26	Electrician	23200.6	20		
TCC-Central - 26	Fanline Carrier Operator	11470.4	20		
TCC-Central - 26	Flat Truck Driver	6373.9	20		
TCC-Central - 26	Hyd Crane Operator	12747.9	20		
TCC-Central - 26	Lead Miner	11691.0	20		
TCC-Central - 26	Loader Operator	11291.3	20		
TCC-Central - 26	Master Mechanic	5754.8	20		
TCC-Central - 26	Mechanic / Welder	41084.2	20		
TCC-Central - 26	Miner	106129.6	20		
TCC-Central - 26	Operating Engineer	11291.3	20		
TCC-Central - 26	Operator G2 Plant Operator	11291.3	20		
TCC-Central - 26	Segment Carrier Operator	87989.0	20		
TCC-Central - 26	Shaft Crane Operator	20455.3	20		
TCC-Central - 26	Shifter	11691.0	20		
TCC-Central - 26	TBM Operator	23381.9	20		
TCC-Central - 26	Toplander	20455.3	20		
TCC-Central - 26	Utility Truck Operator	11736.5	20		
TCC-Central - 26	Man Transport Truck Operator	11736.5	20		
TOTAL TCC-Central-26					
TCC-Central - 27	Bottomlander	977.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Bullgang Foreman	471.4	10		
TCC-Central - 27	Bullgang Laborer	929.6	10		
TCC-Central - 27	Crane Oiler	1453.6	10		
TCC-Central - 27	Electrician	1677.9	10		
TCC-Central - 27	Flat Truck Driver	76.5	10		
TCC-Central - 27	Forklift Operator	376.7	10		
TCC-Central - 27	Hyd Crane Operator	853.6	10		
TCC-Central - 27	Lead Miner	977.3	10		
TCC-Central - 27	Master Mechanic	300.0	10		
TCC-Central - 27	Mechanic / Welder	1754.5	10		
TCC-Central - 27	Miner	4499.0	10		
TCC-Central - 27	Shaft Crane Operator	1077.3	10		
TCC-Central - 27	Toplander	977.3	10		
TCC-Central - 27	Toplander	977.3	10		
TOTAL TCC-Central-27					
TCC-Central - 28	Shifter	1251.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Lead Miner	1605.0	10		
TCC-Central - 28	Miner	5775.9	10		
TCC-Central - 28	Forklift Operator	536.0	10		
TCC-Central - 28	Mechanic / Welder	2366.0	10		
TCC-Central - 28	Shaft Crane Operator	1351.0	10		
TCC-Central - 28	Toplander	1251.0	10		
TCC-Central - 28	Bottomlander	1251.0	10		
TCC-Central - 28	Crane Oiler	815.0	10		
TCC-Central - 28	Electrician	2066.0	10		
TCC-Central - 28	Hyd Crane Operator	815.0	10		
TCC-Central - 28	Master Mechanic	300.0	10		
TCC-Central - 28	Utility Truck Operator	386.0	10		
TCC-Central - 28	Bullgang Foreman	100.0	10		
TCC-Central - 28	Bullgang Laborer	600.0	10		
TOTAL TCC-Central-28					
TCC-Central - 29	Excavator Operator	190.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Laborer G2 Concrete Laborer	1050.0	10		

TCC-Central - 29	Laborer G2 General	270.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Laborer G3 Dumpman	300.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Laborer G3 Flagman	760.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Shaft Crane Operator	190.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Toplander	190.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Bottomlander	190.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Crane Oiler	190.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G2 Excavator 3.5 to 7.0 cy	2450.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G2 Finish Blade	700.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G3 Loader >4cy	800.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G4 Dozer & Push Cat	3710.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G4 Scraper	2150.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G5 Compactor w-blade	500.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G6 Tractor	810.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operating Engineer Foreman	1035.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Teamster G2 Hwy ED 6-8cy, Water<7mgal	9525.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Teamster G4 ED 25-65 Cy	700.0	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-29					

Marine Inventory for Twin Cities Complex - Central Tunnel Shaft
Options 5A, 5B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Twin Cities Complex - Central Tunnel Shaft
Options 5A, 5B

Code	# day	Locomotive Type	From Depot Site	Delivery Depot	Rail Cars	Rail Cars/Day	Main Railroad	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
TCC-Central - 23	105	Pre Cast Segment 26' ID x 6' Wide	Sacramento	Twin Cities Complex Sidetrack	104	0.99	UPRR						
TCC-Central - 24	2064	Pre Cast Segment 26' ID x 6' Wide	Sacramento	Twin Cities Complex Sidetrack	3852	1.87	UPRR						
TCC-Central - 25	80	Pre Cast Segment 26' ID x 6' Wide	Sacramento	Twin Cities Complex Sidetrack	104	1.30	UPRR						
TCC-Central - 26	736	Pre Cast Segment 26' ID x 6' Wide	Sacramento	Twin Cities Complex Sidetrack	1364	1.85	UPRR						

Rail Activity for RTM to Southern Complex presented in Southern Complex workbooks

Helicopter Inventory for Twin Cities Complex - Central Tunnel Shaft
Options 5A, 5B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Twin Cities Complex - Central Tunnel Shaft
Options 5A, 5B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy) (not Concrete)	Fill (cy/day) (not Concrete)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
TCC-Central - 1	507	90	5.6								
TCC-Central - 2		29									
TCC-Central - 5		44		249472	5670						
TCC-Central - 6		204		1029535	5047						
TCC-Central - 7		149				70863	476				
TCC-Central - 8		65									
TCC-Central - 9		57		607	11						
TCC-Central - 10		81		12155	150						
TCC-Central - 11		17									
TCC-Central - 12		92									
TCC-Central - 13		65		69238	1065						
TCC-Central - 16		65		607	9						
TCC-Central - 17		43									
TCC-Central - 19		20									
TCC-Central - 21		93									
TCC-Central - 24		2064									
TCC-Central - 25		80									
TCC-Central - 26		736									
TCC-Central - 26		736									
TCC-Central - 29	395	135	2.9								

**Demolition Assumptions for Twin Cities Complex - Central Tunnel Shaft
Options 5A, 5B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for New Hope Central Access Road
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Road Base on Access Road	NH_Central Access-1	2/22/2027	2/25/2027	4	4	10
12 Month Maintenance: First Overlay Walnut Grove Blvd from Blossom to Lauffer	NH_Central Access-2	4/10/2028	4/13/2028	4	4	10
12 Month Maintenance: Second Overlay Walnut Grove Blvd from Blossom to Lauffer	NH_Central Access-3	4/10/2029	4/13/2029	4	4	10
Acres - Overlay		5.23				
Acres - New Gravel Road		1.1				

Construction Schedule for New Hope - Central Tunnel Shaft						
Options 5A, 5B						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Clear and Grub	NH-Central - 1	4/6/2028	4/26/2028	15	5	10
Ground Improvement	NH-Central - 2	4/27/2028	6/14/2028	35	5	10
Raise Shaft Pad	NH-Central - 3	6/15/2028	10/18/2028	90	5	10
Excavate, Set Strips, & Place Guide Wall	NH-Central - 4	10/19/2028	11/3/2028	12	5	10
Place Guide Walls Concrete	NH-Central - 5	11/7/2028	11/7/2028	1	1	10
Excavate Slurry Wall & Place Concrete & Rebar	NH-Central - 6	11/8/2028	12/15/2028	38	7	24
Slurry Wall including Strip Forms and Place Rebar & Top Beam	NH-Central - 7	12/18/2028	1/23/2029	37	7	24
Excavate Shaft	NH-Central - 8	1/30/2029	3/13/2029	43	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	NH-Central - 9	3/14/2029	3/27/2029	13	7	24
Dewater Shaft	NH-Central - 10	3/28/2029	4/3/2029	7	7	24
Place TBM Cradle Rebar and Cradle Pour	NH-Central - 11	4/4/2029	4/11/2029	6	5	10
Breakout Slurry Wall for TBM	NH-Central - 12	4/12/2029	5/8/2029	19	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	NH-Central - 13	4/12/2029	8/1/2029	80	5	10
Place Shaft Cover	NH-Central - 14	8/1/2029	8/7/2029	5	5	10
Total Site Acres	11.1					

Offroad Equipment (Fossil Fuel) Inventory for New Hope - Central Tunnel Shaft
Options 5A, 5B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
NH-Central - 1	CAT D8 Dozer	Crawler Tractor	14.24	15	1	Diesel Tier 4 or Hybrid Diesel	179	0.43		
NH-Central - 1	CAT Grader 16H - 16' Blade	Grader	14.24	15	1	Diesel	285	0.41		
NH-Central - 1	623G Scraper Elevate 21 CY	Scaper	28.48	15	2	Diesel	359	0.48		
NH-Central - 2	Air Compressor 375 CFM	Air Compressor	280	35	8	Diesel Tier 4	122	0.48		
NH-Central - 2	Grove RT Crane 30T	Crane	280	35	8	Diesel	160	0.29		
NH-Central - 2	DMM Deep Soil Mixer	Bore Drill Rigs	280	35	8	Diesel	808	0.5		
NH-Central - 2	DMM Grout Mix Plant	Other Industrial Equipmen	280	35	8	Diesel	500	0.34		
NH-Central - 2	Case 590 SupN Loader	Rubber Tired Loaders	280	35	8	Diesel	110	0.36		
NH-Central - 3	CAT CB-634D Vibratory 84"	Rollers	903.5	90	10	Diesel	145	0.38		
NH-Central - 3	CAT Grader 16H	Graders	903.5	90	10	Diesel	285	0.41		
NH-Central - 3	CAT D8 Dozer	Crawler Tractor	903.5	90	10	Diesel	328	0.43		
NH-Central - 4	CAT Hyd Excavator 1CY	Excavator	4.5	12	0	Diesel	138	0.38		
NH-Central - 4	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	4.5	12	0	Diesel or Hybrid	130	0.36		
NH-Central - 6	1600 CFM Compressor Diesel	Air Compressor	198.4	38	5	Diesel Tier 4	540	0.48		
NH-Central - 6	Hydraulic 55 Ton Crane	Crane	396.7	38	10	Diesel	350	0.29		
NH-Central - 6	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	198.4	38	5	Diesel or Hybrid	130	0.36		
NH-Central - 6	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	198.4	38	5	Diesel	8	0.56		
NH-Central - 6	Manitowoc 777 200 Ton Crane	Crane	396.7	38	10	Diesel	760	0.29		
NH-Central - 7	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	178.3	37	5	Diesel or Hybrid	130	0.36		
NH-Central - 7	250 CFM Compressor Diesel	Air Compressor	3	37	0.1	Diesel Tier 3	75	0.48		
NH-Central - 7	CAT Hyd Excavator 1CY	Excavator	356.6	37	10	Diesel	138	0.38		
NH-Central - 8	Manitowoc 777 200 Ton Crane	Crane	132.4	43	3	Diesel	760	0.29		
NH-Central - 9	Manitowoc 777 200 Ton Crane	Crane	84	13	6	Diesel	760	0.29		
NH-Central - 9	Hydraulic 40 Ton Crane	Crane	27.3	13	2	Diesel	300	0.29		
NH-Central - 9	Hydraulic 25 Ton Crane	Crane	57.9	13	4	Diesel	100	0.29		
NH-Central - 10	Hydraulic 15 Ton Crane	Crane	75.7	7	11	Diesel	100	0.29		
NH-Central - 11	Manitowoc 777 200 Ton Crane	Crane	26.7	6	4	Diesel	760	0.29		
NH-Central - 11	250 CFM Compressor Diesel	Air Compressor	6.2	6	1	Diesel Tier 3	75	0.48		
NH-Central - 12	250 CFM Compressor Diesel	Air Compressor	89.9	19	5	Diesel Tier 3	75	0.48		
NH-Central - 12	Manitowoc 777 200 Ton Crane	Crane	89.9	19	5	Diesel	760	0.29		
NH-Central - 13	Hydraulic 9 Ton Crane	Crane	200.5	80	3	Diesel	85	0.29		
NH-Central - 13	250 CFM Compressor Diesel	Air Compressor	393.5	80	5	Diesel Tier 3	75	0.48		
NH-Central - 13	Manitowoc 777 200 Ton Crane	Crane	37.9	80	0	Diesel	760	0.29		
NH-Central - 14	Hydraulic 9 Ton Crane	Crane	30.3	5	6	Diesel	85	0.29		
NH-Central - 14	Hydraulic 40 Ton Crane	Crane	30.3	5	6	Diesel	300	0.29		
NH-Central - 14	CAT Forklift 5,500 LB	Aerial Lift	30.3	5	6	Diesel	63	0.31		
NH-Central - 14	250 CFM Compressor Diesel	Air Compressor	136.5	5	27	Diesel Tier 3	75	0.48		
NH-Central - 14	Manitowoc 777 200 Ton Crane Manitowoc	Crane	39.4	5	8	Diesel	760	0.29		
NH-Central - 14	999-275 Ton Crane	Crane	97.2	5	19.4	Diesel	900	0.29		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

**Offroad Equipment (Electric) Inventory for New Hope - Central Tunnel Shaft
Options 5A, 5B**

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
NH-Central - 13	Axial Fan 114,000 CFM Electric	45.4	80	50	28
NH-Central - 13	Welder 400 AMP	155.1	80	15	29
NH-Central-2	90kW Generator	594.2	35		
NH -Central-2	Water Pump 4"	594.2	35		
NH-Central-6	Slurry Wall Techniwell	198.4	38		
NH-Central-10	Dewater Pump 6"	302.9	7		
NH-Central-10	150 kW Generator	75.7	7		
NH-Central-11	Trailer Conc Pump 100 cy/hr	6.2	6		
NH-Central-13	Trailer Conc Pump 100 cy/hr	155.1	80		
NH-Central-14	Trailer Conc Pump 100 cy/hr	88.1	5		

Vehicle Inventory for New Hope - Central Tunnel Shaft
Options 5A, 5B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
NH-Central - 1	Truck Flatbed 4 T Highway	Materials from Sacramento	15	50.0	0.6	79	5	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 1	Truck, Flatbed, 10T, Hwy	Grader and Scraper to and from Sacramento	2	2.5	0.6	4	2.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 1	Truck, Flatbed, 10T, Hwy	Crawler Tractor from Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 2	Pickup 1/2T 2 WD	Materials from Sacramento	35	594.2	0.6	938	27	New Hope Shaft to/from Sacramento	19	38	Hybrid Gasoline	
NH-Central - 2	Truck Flatbed 4 T Highway	Materials from Sacramento	35	594.2	0.6	938	27	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 2	Mechanic Truck	Materials from Sacramento	35	594.2	0.6	938	27	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 2	Concrete Transit Mix Truck* 12cy	Concrete for Ground Improvement from Sacramento	35	79.5	0.5	149	4	New Hope Shaft to/from Sacramento	16	32	Diesel	
NH-Central - 2	Truck, Flatbed, 10T, Hwy	Crane, Trencher, & Other Equipment to and from Sacramento	2	3.8	0.6	6	3.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 3	Highway Dump Truck 18 CY	Materials from Sacramento	90	903.5	0.6	1427	16	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 3	Truck* End Dump* 16-30cy* Hwy	Soil Material in Covered Trucks from Twin Cities Complex	90	1326.0	0.5	2652	29	New Hope Shaft to/from Twin Cities Complex	15	30	Diesel	
NH-Central - 3	Truck, Flatbed, 10T, Hwy	Grader and Roller to and from Sacramento	2	2.5	0.6	4	2.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 3	Truck, Flatbed, 10T, Hwy	Crawler Tractor to Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 4	Truck, Flatbed, 10T, Hwy	Excavator to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 4	Truck, Flatbed, 10T, Hwy	Loader from Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 5	Truck Flatbed 4 T Highway	Rebar from Sacramento	1	0.6	0.6	1	1	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 5	Concrete Transit Mix Truck* 12cy	Concrete from Lambert CBP	35	238.5	0.5	477	14	New Hope Shaft to/from Lambert CBP	15	30	Diesel	
NH-Central - 6	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	38	93.7	0.6	148	4	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 6	Truck Flatbed 4 T Highway	Rebar from Sacramento	38	12.7	0.6	20	1	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 6	Concrete Transit Mix Truck* 12cy	Concrete from Lambert CBP	38	303.0	0.5	606	16	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Central - 6	Truck, Flatbed, 10T, Hwy	Crane and Other Equipment to and from Sacramento	2	2.5	0.6	4	2.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 6	Truck, Flatbed, 10T, Hwy	Crane from Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 7	Truck Flatbed 4 T Highway	Rebar from Sacramento	37	0.6	0.6	1	0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 7	Concrete Transit Mix Truck* 12cy	Concrete from Lambert CBP	37	4.5	0.5	9	0	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Central - 7	Truck, Flatbed, 10T, Hwy	Loader to Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 9	Truck Flatbed 4 T Highway	Rebar from Sacramento	13	3.8	0.6	6	0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 9	Concrete Transit Mix Truck* 12cy	Concrete from Lambert CBP	13	183.0	0.5	366	28	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Central - 9	Truck, Flatbed, 10T, Hwy	Cranes to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 10	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 11	Truck Flatbed 4 T Highway	Rebar from Sacramento	6	0.6	0.6	1	0.2	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 11	Concrete Transit Mix Truck* 12cy	Concrete from Lambert CBP	6	13.5	0.5	27	5	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Central - 12	Truck Flatbed 4 T Highway	Rebar from Sacramento	19	1.3	0.6	2	0.1	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 12	Concrete Transit Mix Truck* 12cy	Concrete from Lambert CBP	19	85.5	0.5	171	9	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Central - 13	Concrete Transit Mix Truck* 12cy	Concrete from Lambert CBP	80	53.0	0.5	106	1	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Central - 13	Truck, Flatbed, 10T, Hwy	Crane to Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 13	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 14	Highway Flatbed 10 Ton	Materials from Sacramento	5	30.3	0.6	48	10	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 14	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site												
NH-Central - 4	CAT 730 Rear Dump	Dumper	12	4.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		23	Diesel or Hybrid	
NH-Central - 6	CAT 730 Rear Dumbo	Dumper	38	198.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		992	Diesel or Hybrid	
NH-Central - 6	Articulated Rear Dumbo 22 CY/CAT 730	Dumper	38	198.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		992	Diesel or Hybrid	
NH-Central - 6	Concrete Pump Truck	Off-Highway Truck	38	397.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1985	Diesel	
NH-Central - 9	Concrete Pump Truck	Off-Highway Truck	13	76.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		380	Diesel	

Employees Required to New Hope - Central Tunnel Shaft
Options 5A, 5B

Code	Employee Type	Hours	# Work Hours/Day	Trip Location (to/from)	Commute Miles/ One-way Trip/Day
NH-Central - 1	General Foreman	7.12	10	Sacramento to/from New Hope Shaft	19
NH-Central - 1	Dozer Operator	14.24	10	Sacramento to/from New Hope Shaft	19
NH-Central - 1	Grader Operator	14.24	10	Sacramento to/from New Hope Shaft	19
NH-Central - 1	Operator G4 Grade Check	7.12	10	Sacramento to/from New Hope Shaft	19
NH-Central - 1	Scraper Operator	28.48	10	Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-1					
NH-Central - 2	Laborer G2 General	1782.66	10	Sacramento to/from New Hope Shaft	19
NH-Central - 2	Operator G3a Crane	594.22	10	Sacramento to/from New Hope Shaft	19
NH-Central - 2	Operator G3 BH Loader	594.22	10	Sacramento to/from New Hope Shaft	19
NH-Central - 2	Operating Engineer	594.22	10	Sacramento to/from New Hope Shaft	19
NH-Central - 2	Operator G4 Grade Check	594.22	10	Sacramento to/from New Hope Shaft	19
NH-Central - 2	Operator G4 Heavy Duty Mechanic	594.22	10	Sacramento to/from New Hope Shaft	19
NH-Central - 2	Operator G2 Plant Operator	1188.44	10	Sacramento to/from New Hope Shaft	19
NH-Central - 2	Teamster G1 Hwy	594.22	10	Sacramento to/from New Hope Shaft	19
NH-Central - 2	Teamster G2 Hwy	594.22	10	Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-2					
NH-Central - 3	Grade Setter / Checker	903.5	10	Sacramento to/from New Hope Shaft	19
NH-Central - 3	Water Truck Highway	903.5	10	Sacramento to/from New Hope Shaft	19
NH-Central - 3	Compactor Operator	903.5	10	Sacramento to/from New Hope Shaft	19
NH-Central - 3	Dozer Operator	903.5	10	Sacramento to/from New Hope Shaft	19
NH-Central - 3	Grader Operator	903.5	10	Sacramento to/from New Hope Shaft	19
NH-Central - 3	Truck Driver	903.5	10	Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-3					
NH-Central - 4	Shifter	4.5	10	Sacramento to/from New Hope Shaft	19
NH-Central - 4	Lead Miner	4.5	10	Sacramento to/from New Hope Shaft	19
NH-Central - 4	Miner	4.5	10	Sacramento to/from New Hope Shaft	19
NH-Central - 4	Loader Operator	4.5	10	Sacramento to/from New Hope Shaft	19
NH-Central - 4	Excavator Operator	4.5	10	Sacramento to/from New Hope Shaft	19
NH-Central - 4	Truck Driver	13.6	10	Sacramento to/from New Hope Shaft	19
NH-Central - 4	Carpenter	323	10	Sacramento to/from New Hope Shaft	19
NH-Central - 4	Carpenter Foreman	80.7	10	Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-4					
NH-Central - 5	General Laborer	8.3	10	Sacramento to/from New Hope Shaft	19
NH-Central - 5	Carpenter	16.5	10	Sacramento to/from New Hope Shaft	19
NH-Central - 5	Carpenter Foreman	4.1	10	Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-5					
NH-Central - 6	General Laborer	2182	24	Sacramento to/from New Hope Shaft	19
NH-Central - 6	General Foreman	396.7	24	Sacramento to/from New Hope Shaft	19
NH-Central - 6	Mechanic Welder	396.7	24	Sacramento to/from New Hope Shaft	19
NH-Central - 6	Shaft Crane Operator	396.7	24	Sacramento to/from New Hope Shaft	19
NH-Central - 6	Crane Oiler	396.7	24	Sacramento to/from New Hope Shaft	19
NH-Central - 6	Truck Driver	226.1	24	Sacramento to/from New Hope Shaft	19
NH-Central - 6	Loader Operator	198.4	24	Sacramento to/from New Hope Shaft	19
NH-Central - 6	Shifter	595.1	24	Sacramento to/from New Hope Shaft	19
NH-Central - 6	Lead Miner	198.4	24	Sacramento to/from New Hope Shaft	19
NH-Central - 6	Miner	1587	24	Sacramento to/from New Hope Shaft	19
NH-Central - 6	Hyd Crane Operator	396.7	24	Sacramento to/from New Hope Shaft	19
NH-Central - 6	Iron Worker Foreman	396.7	24	Sacramento to/from New Hope Shaft	19
NH-Central - 6	Iron Worker	1983.7	24	Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-6					
NH-Central - 7	Loader Operator	178.3	24	Sacramento to/from New Hope Shaft	19
NH-Central - 7	Excavator Operator	178.3	24	Sacramento to/from New Hope Shaft	19
NH-Central - 7	Hyd Track Drill	178.3	24	Sacramento to/from New Hope Shaft	19
NH-Central - 7	General Laborer	557.2	24	Sacramento to/from New Hope Shaft	19
NH-Central - 7	General Foreman	178.3	24	Sacramento to/from New Hope Shaft	19
NH-Central - 7	Carpenter	27.9	24	Sacramento to/from New Hope Shaft	19
NH-Central - 7	Carpenter Foreman	7	24	Sacramento to/from New Hope Shaft	19
NH-Central - 7	Iron Worker Foreman	8.3	24	Sacramento to/from New Hope Shaft	19
NH-Central - 7	Iron Worker	178.3	24	Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-7					
NH-Central - 8	Shaft Crane Operator	132.4	24	Sacramento to/from New Hope Shaft	19
NH-Central - 8	Toplander	132.4	24	Sacramento to/from New Hope Shaft	19
NH-Central - 8	Crane Oiler	132.4	24	Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-8					
NH-Central - 9	Bottomlander	84	24	Sacramento to/from New Hope Shaft	19

NH-Central - 9	Shifter	125.8	24	Sacramento to/from New Hope Shaft	19
NH-Central - 9	Lead Miner	14.5	24	Sacramento to/from New Hope Shaft	19
NH-Central - 9	Miner	338.4	24	Sacramento to/from New Hope Shaft	19
NH-Central - 9	Hyd Crane Operator	85.2	24	Sacramento to/from New Hope Shaft	19
NH-Central - 9	Shaft Crane Operator	84	24	Sacramento to/from New Hope Shaft	19
NH-Central - 9	Toplander	193.1	24	Sacramento to/from New Hope Shaft	19
NH-Central - 9	Iron Worker Foreman	111.3	24	Sacramento to/from New Hope Shaft	19
NH-Central - 9	Iron Worker	974.4	24	Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-9					
NH-Central - 10	Shifter	75.7	24	Sacramento to/from New Hope Shaft	19
NH-Central - 10	Lead Miner	75.7	24	Sacramento to/from New Hope Shaft	19
NH-Central - 10	Miner	605.7	24	Sacramento to/from New Hope Shaft	19
NH-Central - 10	Hyd Crane Operator	75.7	24	Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-10					
NH-Central - 11	Shifter	26.7	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Miner	90.6	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Shaft Crane Operator	26.7	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Toplander	26.7	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Crane Oiler	26.7	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Iron Worker	163.5	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Iron Worker Foreman	20.4	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Lead Miner	6.2	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Mechanic Welder	6.2	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Electrician	6.2	10	Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-11					
NH-Central - 12	Shaft Crane Operator	89.9	10	Sacramento to/from New Hope Shaft	19
NH-Central - 12	Toplander	89.9	10	Sacramento to/from New Hope Shaft	19
NH-Central - 12	Bottomlander	89.9	10	Sacramento to/from New Hope Shaft	19
NH-Central - 12	Crane Oiler	89.9	10	Sacramento to/from New Hope Shaft	19
NH-Central - 12	Iron Worker	718.8	10	Sacramento to/from New Hope Shaft	19
NH-Central - 12	Iron Worker Foreman	89.9	10	Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-12					
NH-Central - 13	Shifter	393.5	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Lead Miner	393.5	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Miner	2451.7	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Mechanic / Welder	548.5	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Electrician	200.5	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Hyd Crane Operator	200.5	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Shaft Crane Operator	38	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Toplander	386	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Bottomlander	38	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Crane Oiler	38	10	Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-13					
NH-Central - 14	Bottomlander	39.37142857	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Bulgang Foreman	30.28571429	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Bulgang Laborer	60.57142857	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Concrete Pump Operator	48.68428571	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Crane Oiler	97.16414286	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Flat Truck Driver	30.28571429	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Hyd Crane Operator	60.57142857	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Lead Miner	136.5355714	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Mechanic / Welder	118.137	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Miner	118.137	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Shaft Crane Operator	118.137	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Shifter	118.137	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Toplander	118.137	10	Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-14					

Marine Inventory for New Hope - Central Tunnel Shaft
Options 5A, 5B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for New Hope - Central Tunnel Shaft
Options 5A, 5B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for New Hope - Central Tunnel Shaft
Options 5A, 5B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for New Hope - Central Tunnel Shaft
Options 5A, 5B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
NH-Central - 1	11.1	15	1	3587	239						
NH-Central - 3		90				39775	442				
NH-Central - 4		12		296.8	25						
NH-Central - 5		1									
NH-Central - 6		38		4358	115						
NH-Central - 7		37				104	3				
NH-Central - 8		43		14572	339						

**Demolition Assumptions for New Hope - Central Tunnel Shaft
Options 5A, 5B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Staten Island Central Access Road
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Road Base on Access Road	SI_Central Access-1	2/19/2027	2/19/2027	1	1	10
12 Month Maintenance: First Overlay Access Road	SI_Central Access-2	4/14/2028	4/19/2028	4	4	10
12 Month Maintenance: Second Overlay Access Road	SI_Central Access-3	4/14/2029	4/19/2029	4	4	10
Initial Asphalt Overlay: Walnut Grove Blvd from Blossom Road to Staten Island Road	SI_Central Access-4	2/22/2027	3/1/2027	7	5	10
Intermediate Asphalt Overlay: Walnut Grove Blvd from Blossom Road to Staten Island Road	SI_Central Access-5	5/9/2030	5/16/2030	6	5	10
Final Asphalt Overlay: Walnut Grove Blvd from Blossom Road to Staten Island Road	SI_Central Access-6	6/12/2037	6/22/2037	9	5	10

Acres - New Road1.2

Construction Schedule for Staten Island - Central Tunnel Shaft						
Options 5A, 5B						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Clear and Grub	SI-Central - 1	10/19/2028	10/20/2028	2	2	10
Ground Improvement	SI-Central - 2	10/23/2028	11/14/2028	17	5	10
Raise Shaft Pad	SI-Central - 3	1/1/2029	7/27/2029	148	5	10
Excavate, Set Strips, & Place Guide Wall	SI-Central - 4	7/30/2029	8/15/2029	13	5	10
Place Guide Walls Concrete	SI-Central - 5	8/16/2029	8/16/2029	1	1	10
Excavate Slurry Wall & Place Concrete & Rebar	SI-Central - 6	8/17/2029	9/25/2029	40	7	24
Slurry Wall including Strip Forms and Place Rebar & Top Beam	SI-Central - 7	9/26/2029	11/7/2029	43	7	24
Excavate Shaft	SI-Central - 8	11/8/2029	12/17/2029	40	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	SI-Central - 9	11/8/2029	12/31/2029	54	7	24
Dewater Shaft	SI-Central - 10	1/1/2030	1/7/2030	7	7	24
Place TBM Cradle Rebar and Cradle Pour	SI-Central - 11	1/8/2030	1/15/2030	6	5	10
Breakout Slurry Wall for TBM	SI-Central - 12	1/16/2030	2/11/2030	20	5	10
Ring Beam	SI-Central - 13	1/8/2030	1/15/2030	6	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	SI-Central - 14	1/16/2030	4/29/2030	75	5	10
Place Shaft Cover	SI-Central - 15	4/29/2030	5/7/2030	7	5	10
Total Site Acres	12					

**Offroad Equipment (Fossil Fuel) Inventory for Staten Island - Central Tunnel Shaft
Options SA, 5B**

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
SI-Central - 1	CAT D8 Dozer	Crawler Tractor	26.66	2	13	Diesel Tier 4 or Hybrid Diesel	179	0.43		
SI-Central - 1	CAT Grader 16H - 16' Blade	Grader	26.66	2	13	Diesel	285	0.41		
SI-Central - 1	623G Scraper Elevate 21 CY	Scraper	53.32	2	27	Diesel	359	0.48		
SI-Central - 2	Air Compressor 375 CFM	Air Compressor	306	17	18	Diesel Tier 4	122	0.48		
SI-Central - 2	Grove RT Crane 30T	Crane	306	17	18	Diesel	160	0.29		
SI-Central - 2	DMM Deep Soil Mixer	Bore Drill Rigs	306	17	18	Diesel	808	0.5		
SI-Central - 2	DMM Grout Mix Plant	Other Industrial Equipmen	306	17	18	Diesel	500	0.34		
SI-Central - 2	Portable 90 Kw Diesel	Generators	34	17	2	Diesel Tier 4	158	0.74		
SI-Central - 2	Case 590 SupN Loader	Rubber Tired Loaders	306	17	18	Diesel	110	0.36		
SI-Central - 2	Water Pump 4" Electric	Pumps	682.67	17	40	Diesel	10	0.74		
SI-Central - 3	CAT CB-634D Vibratory 84"	Rollers	1501	148	10	Diesel	145	0.38		
SI-Central - 3	CAT Grader 16H	Graders	1501	148	10	Diesel	285	0.41		
SI-Central - 3	CAT D8 Dozer	Crawler Tractor	1501	148	10	Diesel	328	0.43		
SI-Central - 4	CAT Hyd Excavator 1CY	Excavator	4.5	13	0	Diesel	138	0.38		
SI-Central - 4	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	4.5	13	0	Diesel or Hybrid	130	0.36		
SI-Central - 6	1600 CFM Compressor Diesel	Air Compressor	159.8	40	4	Diesel Tier 4	540	0.48		
SI-Central - 6	Hydraulic 55 Ton Crane	Crane	319.5	40	8	Diesel	350	0.29		
SI-Central - 6	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	159.8	40	4	Diesel or Hybrid	130	0.36		
SI-Central - 6	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	159.8	40	4	Diesel	8	0.56		
SI-Central - 6	Slurry Wall Techniwell	Pumps	159.8	40	4	Diesel	500	0.74		
SI-Central - 6	Manitowoc 777 200 Ton Crane	Crane	319.5	40	8	Diesel	760	0.29		
SI-Central - 7	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	178.3	43	4	Diesel or Hybrid	130	0.36		
SI-Central - 7	250 CFM Compressor Diesel	Air Compressor	3	43	0.1	Diesel Tier 3	75	0.48		
SI-Central - 7	CAT Hyd Excavator 1CY	Excavator	356.6	43	8	Diesel	138	0.38		
SI-Central - 8	Manitowoc 777 200 Ton Crane	Crane	132	40	3	Diesel	760	0.29		
SI-Central - 9	Manitowoc 777 200 Ton Crane	Crane	216.5	54	4	Diesel	760	0.29		
SI-Central - 9	Hydraulic 40 Ton Crane	Crane	27.3	54	1	Diesel	300	0.29		
SI-Central - 9	Hydraulic 25 Ton Crane	Crane	57.9	54	1	Diesel	100	0.29		
SI-Central - 10	Dewater Pump 6"	Pump	302.9	7	43	Diesel	50	0.74		
SI-Central - 10	150 KW Diesel Generator	Generator	75.7	7	11	Diesel Tier 4	183	0.74		
SI-Central - 10	Hydraulic 15 Ton Crane	Crane	75.7	7	11	Diesel	100	0.29		
SI-Central - 11	Manitowoc 777 200 Ton Crane	Crane	26.7	6	4	Diesel	760	0.29		
SI-Central - 11	250 CFM Compressor Diesel	Air Compressor	6.2	6	1	Diesel Tier 3	75	0.48		
SI-Central - 11	Trailer Conc Pump 100 CY HR	Pump	6.2	6	1	Diesel	200	0.74		
SI-Central - 12	250 CFM Compressor Diesel	Air Compressor	89.9	20	4	Diesel Tier 3	75	0.48		
SI-Central - 12	Manitowoc 777 200 Ton Crane	Crane	89.9	20	4	Diesel	760	0.29		
SI-Central - 13	250 CFM Compressor Diesel	Air Compressor	39.4	6	7	Diesel Tier 3	75	0.48		
SI-Central - 13	Manitowoc 777 200 Ton Crane	Crane	39.4	6	7	Diesel	760	0.29		
SI-Central - 13	Trailer Conc Pump 100 CY HR	Pump	39.4	6	7	Diesel	200	0.74		
SI-Central - 14	Hydraulic 9 Ton Crane	Crane	200.5	75	3	Diesel	85	0.29		
SI-Central - 14	250 CFM Compressor Diesel	Air Compressor	490.6	75	7	Diesel Tier 3	75	0.48		
SI-Central - 14	Trailer Conc Pump 100 CY HR	Pump	203.8	75	3	Diesel	200	0.74		
SI-Central - 14	Manitowoc 777 200 Ton Crane	Crane	37.9	75	1	Diesel	760	0.29		
SI-Central - 14	Manitowoc 999-275 Ton Crane	Crane	135	75	2	Diesel	900	0.29		
SI-Central - 15	Hydraulic 9 Ton Crane	Crane	37.9	7	5	Diesel	85	0.29		
SI-Central - 15	Hydraulic 40 Ton Crane	Crane	37.9	7	5	Diesel	300	0.29		
SI-Central - 15	CAT Forklift 5,500 LB	Aerial Lift	37.9	7	5	Diesel	63	0.31		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Staten Island - Central Tunnel Shaft
Options 5A, 5B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
SI-Central - 14	Axial Fan 114,000 CFM	45.4	75	50	30
SI-Central - 14	Electric Welder 400 AMP	155	75	15	31

Vehicle Inventory for Staten Island - Central Tunnel Shaft
Options SA, 5B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/Trip	# of Vehicles Trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
SI-Central - 1	Truck Flatbed 4 T Highway	Materials from Sacramento	2	113.2	1.2	97	49	Staten Island Shaft to/from From Sacramento	35	70	Diesel	
SI-Central - 1	Truck, Flatbed, 10T, Hwy	Grader and Scraper to and from Sacramento	2	4.7	1.2	4	2.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 1	Truck, Flatbed, 10T, Hwy	Crawler Tractor from Sacramento	1	1.2	1.2	1	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 2	Pickup 1/2T 2 WD	Materials from Sacramento	17	682.7	1.2	585	34	Staten Island Shaft to/from Sacramento	35	70	Hybrid Gasoline	
SI-Central - 2	Truck Flatbed 4 T Highway	Materials from Sacramento	17	682.7	1.2	585	34	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 2	Mechanic Truck	Materials from Sacramento	17	682.7	1.2	585	34	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 2	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement from Sacramento	17	199.5	1.2	171	10	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 2	Truck, Flatbed, 10T, Hwy	Crane, Trencher, & Other Equipment to and from Sacramento	2	7.0	1.2	6	3.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 3	Highway Dump Truck 18 CY	Materials from Sacramento	148	1501.0	1.2	1287	9	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 3	Truck' End Dump' 16-20cy Hwy	Soil Material in Covered Trucks from Twin Cities Complex	148	2936.7	0.7	4405	30	Staten Island Shaft to/from Twin Cities Complex	20	40	Diesel	
SI-Central - 3	Truck, Flatbed, 10T, Hwy	Grader and Roller to and from Sacramento	2	4.7	1.2	4	2.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 3	Truck, Flatbed, 10T, Hwy	Crawler Tractor to Sacramento	1	1.2	1.2	1	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 4	Truck, Flatbed, 10T, Hwy	Excavator to and from Sacramento	2	1.2	1.2	1	0.5	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 4	Truck, Flatbed, 10T, Hwy	Loader from Sacramento	1	1.2	1.2	1	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 4	Truck, Flatbed, 10T, Hwy	Rebar from Sacramento	1	1.2	1.2	1	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central-4	Truck, Water, 4 kgal, Hwy	Recycled Water from Lodi	23	25.9	0.6	244	20.3	Staten Island Shaft to/from Lodi	12	24	Diesel	
SI-Central - 5	Truck, Water, 4 kgal, Hwy	Recycled Water from Lodi	1	227.2	0.6	401	401.0	Staten Island Shaft to/from Lodi	17	34	Diesel	
SI-Central - 5	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road CBP	1	15.3	0.7	23	23	Staten Island Shaft to/from Lambert Road Concrete Batch Plant	20	40	Diesel	
SI-Central - 5	Truck Flatbed 4 T Highway	Rebar from Sacramento	1	1.2	1.2	1	1	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 6	Truck Flatbed 4 T Highway	Rebar from Sacramento	40	21.0	1.2	18	0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 6	Truck, Flatbed, 10T, Hwy	Crane and Other Equipment to and from Sacramento	2	4.7	1.2	4	2.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 6	Truck, Flatbed, 10T, Hwy	Crane from Sacramento	1	1.2	1.2	1	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 6	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road CBP	40	292.0	0.7	438	11	Staten Island Shaft to/from Lambert Road Concrete Batch Plant	20	40	Diesel	
SI-Central - 7	Truck, Flatbed, 10T, Hwy	Rebar from Sacramento	1	1.2	1.2	1	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 7	Truck, Flatbed, 10T, Hwy	Loader to Sacramento	1	1.2	1.2	1	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 7	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	43	172.7	1.2	148	3	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 7	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road CBP	43	3.3	0.7	5	0	Staten Island Shaft to/from Lambert Road Concrete Batch Plant	20	40	Diesel	
SI-Central - 9	Truck Flatbed 4 T Highway	Rebar from Sacramento	54	7.0	1.2	6	0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 9	Truck, Flatbed, 10T, Hwy	Cranes to and from Sacramento	2	4.7	1.2	4	2.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 9	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road CBP	54	244.0	0.7	366	7	Staten Island Shaft to/from Lambert Road Concrete Batch Plant	20	40	Diesel	
SI-Central - 10	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	2.3	1.2	2	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 11	Truck Flatbed 4 T Highway	Rebar from Sacramento	6	1.2	1.2	1	0.2	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 11	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road CBP	6	18.0	0.7	27	5	Staten Island Shaft to/from Lambert Road Concrete Batch Plant	20	40	Diesel	
SI-Central - 12	Truck Flatbed 4 T Highway	Rebar from Sacramento	20	2.3	1.2	2	0.1	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 14	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road CBP	75	70.7	0.7	106	1	Staten Island Shaft to/from Lambert Road Concrete Batch Plant	20	40	Diesel	
SI-Central - 14	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	2.3	1.2	2	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 15	Highway Flatbed 10 Ton	Materials from Sacramento	7	37.9	1.2	32	5	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 15	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	2.3	1.2	2	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 15	Truck, Flatbed, 10T, Hwy	Crane to Sacramento	2	1.2	1.2	1	0.5	Staten Island Shaft to/from Sacramento	35	70	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site										Miles On-Site		
SI-Central - 4	CAT 730 Rear Dump	Dumper	13	13.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		68	Diesel or Hybrid	
SI-Central - 6	CAT 730 Rear Dump	Dumper	40	159.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		799	Diesel or Hybrid	
SI-Central - 6	Articulated Rear Dumpo 22 CY/CAT 730	Dumper	40	159.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		799	Diesel or Hybrid	
SI-Central - 6	Concrete Pumpo Truck	Off Highway Truck	40	319.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1598	Diesel	

Employees Required to Staten Island - Central Tunnel Shaft
Options 5A, 5B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
SI-Central - 1	General Foreman	13.33	10		Stockton to/from Staten Island Shaft	26
SI-Central - 1	Dozer Operator	26.66	10		Stockton to/from Staten Island Shaft	26
SI-Central - 1	Grader Operator	26.66	10		Stockton to/from Staten Island Shaft	26
SI-Central - 1	Operator G4 Grade Check	13.33	10		Stockton to/from Staten Island Shaft	26
SI-Central - 1	Scraper Operator	53.32	10		Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-1						
SI-Central - 2	Laborer G2 General	2048.01	10		Stockton to/from Staten Island Shaft	26
SI-Central - 2	Operator G3a Crane	682.67	10		Stockton to/from Staten Island Shaft	26
SI-Central - 2	Operator G3 BH Loader	682.67	10		Stockton to/from Staten Island Shaft	26
SI-Central - 2	Operating Engineer	682.67	10		Stockton to/from Staten Island Shaft	26
SI-Central - 2	Operator G4 Grade Check	682.67	10		Stockton to/from Staten Island Shaft	26
SI-Central - 2	Operator G4 Heavy Duty Mechanic	682.67	10		Stockton to/from Staten Island Shaft	26
SI-Central - 2	Operator G2 Plant Operator	1365.34	10		Stockton to/from Staten Island Shaft	26
SI-Central - 2	Teamster G1 Hwy	682.67	10		Stockton to/from Staten Island Shaft	26
SI-Central - 2	Teamster G2 Hwy	682.67	10		Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-2						
SI-Central - 3	Grade Setter / Checker	1501	10		Stockton to/from Staten Island Shaft	26
SI-Central - 3	Compactor Operator	1501	10		Stockton to/from Staten Island Shaft	26
SI-Central - 3	Dozer Operator	1501	10		Stockton to/from Staten Island Shaft	26
SI-Central - 3	Grader Operator	1501	10		Stockton to/from Staten Island Shaft	26
SI-Central - 3	Truck Driver	1501	10		Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-3						
SI-Central - 4	Shifter	4.5	10		Stockton to/from Staten Island Shaft	26
SI-Central - 4	Lead Miner	4.5	10		Stockton to/from Staten Island Shaft	26
SI-Central - 4	Miner	4.5	10		Stockton to/from Staten Island Shaft	26
SI-Central - 4	Loader Operator	4.5	10		Stockton to/from Staten Island Shaft	26
SI-Central - 4	Excavator Operator	4.5	10		Stockton to/from Staten Island Shaft	26
SI-Central - 4	Truck Driver	13.6	10		Stockton to/from Staten Island Shaft	26
SI-Central - 4	Carpenter	323	10		Stockton to/from Staten Island Shaft	26
SI-Central - 4	Carpenter Foreman	80.7	10		Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-4						
SI-Central - 5	General Laborer	8.3	10		Stockton to/from Staten Island Shaft	26
SI-Central - 5	Carpenter	16.4	10		Stockton to/from Staten Island Shaft	26
SI-Central - 5	Carpenter Foreman	4.1	10		Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-5						
SI-Central - 6	Crane Oiler	319.5	24		Stockton to/from Staten Island Shaft	26
SI-Central - 6	General Foreman	319.5	24		Stockton to/from Staten Island Shaft	26
SI-Central - 6	General Laborer	1757.3	24		Stockton to/from Staten Island Shaft	26
SI-Central - 6	Hyd Crane Operator	319.5	24		Stockton to/from Staten Island Shaft	26
SI-Central - 6	Iron Worker	1597.6	24		Stockton to/from Staten Island Shaft	26
SI-Central - 6	Iron Worker Foreman	319.5	24		Stockton to/from Staten Island Shaft	26
SI-Central - 6	Lead Miner	159.8	24		Stockton to/from Staten Island Shaft	26
SI-Central - 6	Loader Operator	159.8	24		Stockton to/from Staten Island Shaft	26
SI-Central - 6	Mechanic Welder	319.5	24		Stockton to/from Staten Island Shaft	26
SI-Central - 6	Miner	1278.1	24		Stockton to/from Staten Island Shaft	26
SI-Central - 6	Shaft Crane Operator	319.5	24		Stockton to/from Staten Island Shaft	26
SI-Central - 6	Shifter	479.3	24		Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-6						
SI-Central - 7	Loader Operator	178.3	24		Stockton to/from Staten Island Shaft	26
SI-Central - 7	Excavator Operator	178.3	24		Stockton to/from Staten Island Shaft	26
SI-Central - 7	General Laborer	549.3	24		Stockton to/from Staten Island Shaft	26
SI-Central - 7	General Foreman	178.3	24		Stockton to/from Staten Island Shaft	26
SI-Central - 7	Carpenter	20.4	24		Stockton to/from Staten Island Shaft	26
SI-Central - 7	Carpenter Foreman	5.1	24		Stockton to/from Staten Island Shaft	26
SI-Central - 7	Iron Worker Foreman	4.1	24		Stockton to/from Staten Island Shaft	26
SI-Central - 7	Iron Worker	16.6	24		Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-7						
SI-Central - 8	Hy Crane Operator	85.2	24		Stockton to/from Staten Island Shaft	26
SI-Central - 8	Bottomlander	84	24		Stockton to/from Staten Island Shaft	26
SI-Central - 8	Crane Oiler	132.4	24		Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-8						
SI-Central - 9	Shifter	325.5	24		Stockton to/from Staten Island Shaft	26
SI-Central - 9	Lead Miner	14.5	24		Stockton to/from Staten Island Shaft	26
SI-Central - 9	Miner	338.4	24		Stockton to/from Staten Island Shaft	26
SI-Central - 9	Shaft Crane Operator	216.5	24		Stockton to/from Staten Island Shaft	26

SI-Central - 9	Toplander	325.5	24	Stockton to/from Staten Island Shaft	26
SI-Central - 9	Iron Worker Foreman	111.3	24	Stockton to/from Staten Island Shaft	26
SI-Central - 9	Iron Worker	890.4	24	Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-9					
SI-Central - 10	Shifter	75.7	24	Stockton to/from Staten Island Shaft	26
SI-Central - 10	Lead Miner	75.7	24	Stockton to/from Staten Island Shaft	26
SI-Central - 10	Miner	605.7	24	Stockton to/from Staten Island Shaft	26
SI-Central - 10	Hyd Crane Operator	75.7	24	Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-10					
SI-Central - 11	Shifter	26.7	10	Stockton to/from Staten Island Shaft	26
SI-Central - 11	Miner	90.6	10	Stockton to/from Staten Island Shaft	26
SI-Central - 11	Shaft Crane Operator	26.7	10	Stockton to/from Staten Island Shaft	26
SI-Central - 11	Toplander	26.7	10	Stockton to/from Staten Island Shaft	26
SI-Central - 11	Crane Oiler	26.7	10	Stockton to/from Staten Island Shaft	26
SI-Central - 11	Iron Worker	163.5	10	Stockton to/from Staten Island Shaft	26
SI-Central - 11	Iron Worker Foreman	20.4	10	Stockton to/from Staten Island Shaft	26
SI-Central - 11	Lead Miner	6.2	10	Stockton to/from Staten Island Shaft	26
SI-Central - 11	Mechanic Welder	6.2	10	Stockton to/from Staten Island Shaft	26
SI-Central - 11	Electrician	6.2	10	Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-11					
SI-Central - 12	Shaft Crane Operator	89.9	10	Stockton to/from Staten Island Shaft	26
SI-Central - 12	Toplander	89.9	10	Stockton to/from Staten Island Shaft	26
SI-Central - 12	Bottomlander	89.9	10	Stockton to/from Staten Island Shaft	26
SI-Central - 12	Crane Oiler	89.9	10	Stockton to/from Staten Island Shaft	26
SI-Central - 12	Iron Worker	718.8	10	Stockton to/from Staten Island Shaft	26
SI-Central - 12	Iron Worker Foreman	89.9	10	Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-12					
SI-Central - 13	Shifter	39.4	10	Stockton to/from Staten Island Shaft	26
SI-Central - 13	Lead Miner	39.4	10	Stockton to/from Staten Island Shaft	26
SI-Central - 13	Miner	315	10	Stockton to/from Staten Island Shaft	26
SI-Central - 13	Mechanic / Welder	39.4	10	Stockton to/from Staten Island Shaft	26
SI-Central - 13	Shaft Crane Operator	39.4	10	Stockton to/from Staten Island Shaft	26
SI-Central - 13	Toplander	39.4	10	Stockton to/from Staten Island Shaft	26
SI-Central - 13	Bottomlander	39.4	10	Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-13					
SI-Central - 14	Shifter	490.6	10	Stockton to/from Staten Island Shaft	26
SI-Central - 14	Lead Miner	490.6	10	Stockton to/from Staten Island Shaft	26
SI-Central - 14	Miner	3229	10	Stockton to/from Staten Island Shaft	26
SI-Central - 14	Mechanic / Welder	597	10	Stockton to/from Staten Island Shaft	26
SI-Central - 14	Electrician	200.5	10	Stockton to/from Staten Island Shaft	26
SI-Central - 14	Hyd Crane Operator	200.5	10	Stockton to/from Staten Island Shaft	26
SI-Central - 14	Shaft Crane Operator	135	10	Stockton to/from Staten Island Shaft	26
SI-Central - 14	Toplander	135	10	Stockton to/from Staten Island Shaft	26
SI-Central - 14	Bottomlander	38	10	Stockton to/from Staten Island Shaft	26
SI-Central - 14	Crane Oiler	135	10	Stockton to/from Staten Island Shaft	26
SI-Central - 14	Concrete Pump Operator	48.7	10	Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-14					
SI-Central - 15	Bullgang Foreman	37.9	10	Stockton to/from Staten Island Shaft	26
SI-Central - 15	Bullgang Laborer	75.7	10	Stockton to/from Staten Island Shaft	26
SI-Central - 15	Mechanic / Welder	37.9	10	Stockton to/from Staten Island Shaft	26
SI-Central - 15	Hyd Crane Operator	75.7	10	Stockton to/from Staten Island Shaft	26
SI-Central - 15	Flat Truck Driver	37.9	10	Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-15					

Marine Inventory for Staten Island - Central Tunnel Shaft
Options 5A, 5B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Staten Island - Central Tunnel Shaft
Options 5A, 5B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Staten Island - Central Tunnel Shaft
Options 5A, 5B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Staten Island - Central Tunnel Shaft
Options 5A, 5B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
SI-Central - 1	12	2	6	6716	3358						
SI-Central - 3		148				66061	446				
SI-Central - 4		13		296.8	23						
SI-Central - 6		40		3989	100	5268	132				
SI-Central - 8		40		14572	364						

**Demolition Assumptions for Staten Island - Central Tunnel Shaft
Options 5A, 5B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Charter Way Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Excavation	CWPR-1	11/1/2026	11/12/2026	10	5	10
Culvert Pipe	CWPR-2	11/13/2026	11/13/2026	1	1	10
Subdrain System	CWPR-3	11/16/2026	11/16/2026	1	1	10
Road Base	CWPR-4	11/17/2026	11/19/2026	3	3	10
Asphalt Paving	CWPR-5	11/20/2026	11/24/2026	5	5	10
Electrical, Striping, and K-Rail Installation	CWPR-6	11/25/2026	11/25/2026	1	5	10

Acres2.4

Construction Schedule for Rio Vista Park and Ride

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	RVPR -1	11/20/2026	11/30/2026	9	5	10
Embankment	RVPR -2	12/1/2026	12/1/2026	1	1	10
Culvert Pipe	RVPR -3	12/2/2026	12/2/2026	1	1	10
Subdrain System	RVPR -4	12/3/2026	12/3/2026	1	1	10
Road Base	RVPR -5	12/4/2026	12/8/2026	5	5	10
Asphalt Paving	RVPR -6	12/9/2026	12/14/2026	5	5	10
Electrical, Striping, and K-Rail Installation	RVPR -7	12/15/2026	12/15/2026	1	1	10

Acres

3.1

Construction Schedule for Bouldin I Levee - Central
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Construct Levee	Bouldin I Levee-C -1	2/28/2028	6/19/2028	96	5	10

Acres251

Construction Schedule for Bouldin I On-Site - Central Access Road

Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	Bouldin OnSite-C Access -1	2/29/2028	3/10/2028	9	5	10
Embankment	Bouldin OnSite-C Access -2	3/13/2028	3/20/2028	5	5	10
Culvert Pipe	Bouldin OnSite-C Access -3	3/21/2028	3/22/2028	2	2	10
Bridge Over SR 12	Bouldin OnSite-C Access -4	4/16/2027	9/30/2027	120	5	10
Subdrain System	Bouldin OnSite-C Access -5	3/23/2028	4/7/2028	14	5	10
Road Base	Bouldin OnSite-C Access -6	4/10/2028	4/28/2028	14	5	10
Asphalt Paving	Bouldin OnSite-C Access -7	5/1/2028	5/5/2028	5	5	10
KRail and Signs	Bouldin OnSite-C Access -8	5/8/2028	5/8/2028	1	1	10
Intermediate Overlay	Bouldin OnSite-C Access -9	7/17/2030	7/22/2030	5	5	10
Final Overlay	Bouldin OnSite-C Access -10	8/20/2037	8/26/2037	5	5	10

Acres

17.4

Construction Schedule for Bouldin I SR12 - Central Access Road**Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B****THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1****NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION**

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	BouldinSR12-C Access -1	1/25/2027	2/18/2027	19	5	10
Embankment	BouldinSR12-C Access -2	2/19/2027	3/15/2027	19	5	10
Culvert Pipe	BouldinSR12-C Access -3	4/16/2027	4/21/2027	5	5	10
SR 12 Bridge Widening	BouldinSR12-C Access -4	4/16/2027	12/23/2027	181	5	10
Subdrain System	BouldinSR12-C Access -5	4/22/2027	6/16/2027	40	5	10
Road Base	BouldinSR12-C Access -6	6/17/2027	9/8/2027	60	5	10
Asphalt Paving	BouldinSR12-C Access -7	11/16/2027	12/23/2027	27	5	10
KRail and Signs	BouldinSR12-C Access -8	12/24/2027	2/28/2028	5	5	10
Intermediate Overlay	BouldinSR12-C Access -9	5/17/2030	7/16/2030	25	5	10
Final Overlay	BouldinSR12-C Access -10	6/22/2037	8/20/2037	43	5	10

Acres **70.8**

Construction Schedule for Bouldin Island - Central Tunnel Shaft						
Options 5A, 5B						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Mobilize	Bouldin I-Central - 1	7/19/2028	9/12/2028	39	5	10
Management, Engineering, & Field Labor	Bouldin I-Central - 2	7/19/2028	7/17/2035	1825	5	10
Clear and Grub	Bouldin I-Central - 3	9/13/2028	10/10/2028	19	5	10
Ground Improvement, Grading, & Compaction at Shaft & Segment Storage Area	Bouldin I-Central - 4	9/13/2028	10/30/2029	295	5	10
Ground Improvement, Grading, & Compaction at RTM Storage Area	Bouldin I-Central - 5	10/10/2029	8/12/2030	220	5	10
Raise Shaft Pad	Bouldin I-Central - 6	3/14/2029	2/26/2030	250	5	10
Excavate, Set Strips, & Concrete for Shaft & Segment Areas	Bouldin I-Central - 7	10/31/2029	12/18/2029	35	5	10
Place Guide Walls Concrete	Bouldin I-Central - 8	2/27/2030	3/22/2030	18	5	10
Excavate Slurry Wall, Place Concrete & Rebar, Slurry Wall, Remove Guide Wall, & add Top Beam	Bouldin I-Central - 9	3/25/2030	7/18/2030	85	5	10
Excavate Shaft	Bouldin I-Central - 10	7/19/2030	10/16/2030	66	5	10
Place Tremie Seal Rebar, Cooling Pipes, & Seal	Bouldin I-Central - 11	10/17/2030	11/13/2030	28	7	24
Dewater Shaft	Bouldin I-Central - 12	11/14/2030	11/20/2030	10	7	24
Place TBM Cradle Rebar and Cradle Pour	Bouldin I-Central - 13	11/21/2030	12/3/2030	10	5	10
Breakout Slurry Wall for TBM	Bouldin I-Central - 14	12/4/2030	12/31/2030	20	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	Bouldin I-Central - 15	1/1/2031	3/25/2031	60	5	10
Erect Gantry Crane	Bouldin I-Central - 16	3/26/2031	4/16/2031	16	5	10
TBM Assembly including Shaft Utilities	Bouldin I-Central - 17	4/17/2031	12/5/2031	167	5	10
Tunneling Operations including Equipment Delivery	Bouldin I-Central - 18	4/17/2031	5/2/2035	1266	6	20
Remove TBM and Tunnel Equipment	Bouldin I-Central - 19	5/2/2035	6/28/2035	50	5	10
Remove Equipment from Site	Bouldin I-Central - 20	6/14/2035	7/20/2035	27	5	10
Final Access to RTM Storage Area	Bouldin I-Central - 21	7/17/2035	7/28/2035	9	3	10
Site Restoration	Bouldin I-Central - 22	7/20/2035	2/4/2036	144	5	10
Total Site Acres		338				

**Offroad Equipment (Fossil Fuel) Inventory for Bouldin Island - Central Tunnel Shaft
Options 5A, 5B**

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
Bouldin I-Central - 1	Hydraulic 9 Ton Crane	Crane	400	39	10	Diesel	85	0.29		
Bouldin I-Central - 1	Hydraulic 40 Ton Crane	Crane	400	39	10	Diesel	300	0.29		
Bouldin I-Central - 1	CAT Forklift 5,500 LB	Aerial Lift	400	39	10	Diesel	63	0.31		
Bouldin I-Central - 3	CAT D8 Dozer	Crawler Tractor	1018	19	54	Diesel Tier 4 or Hybrid Diesel	179	0.43		
Bouldin I-Central - 3	Grader 16H - 16' Blade	Grader	1018	19	54	Diesel	285	0.41		
Bouldin I-Central - 3	623G Scraper Elevate 21 CY	Scaper	2036	19	107	Diesel	359	0.48		
Bouldin I-Central - 4	Air Compressor 375 CFM	Air Compressor	6880	295	23	Diesel Tier 4	122	0.48		
Bouldin I-Central - 4	Grove RT Crane 30T	Crane	6880	295	23	Diesel	160	0.29		
Bouldin I-Central - 4	DMM Deep Soil Mixer	Bore Drill Rig	2950	295	10	Diesel	522	0.5		
Bouldin I-Central - 4	DMM Grout Mix Plant	Other Industrial Equipmen	6880	295	23	Diesel	500	0.34		
Bouldin I-Central - 4	Portable 90 Kw Diesel	Generators	295	295	1	Diesel Tier 4	158	0.74		
Bouldin I-Central - 4	Case 590 SupN Loader	Rubber Tired Loaders	6880	295	23	Diesel	110	0.36		
Bouldin I-Central - 4	Water Pump 4" Electric	Pumps	6880	295	23	Diesel	10	0.74		
Bouldin I-Central - 5	Air Compressor 375 CFM	Air Compressor	3839	220	17	Diesel Tier 4	122	0.48		
Bouldin I-Central - 5	Grove RT Crane 30T	Crane	3547	220	16	Diesel	160	0.29		
Bouldin I-Central - 5	DMM Deep Soil Mixer	Bore Drill Rigs	3547	220	16	Diesel	522	0.5		
Bouldin I-Central - 5	DMM Grout Mix Plant	Other Industrial Equipmen	3547	220	16	Diesel	500	0.34		
Bouldin I-Central - 5	Portable 90 Kw Diesel	Generators	220	220	1	Diesel Tier 4	158	0.74		
Bouldin I-Central - 5	Case 590 SupN Loader	Rubber Tired Loaders	3547	220	16	Diesel	110	0.36		
Bouldin I-Central - 5	Water Pump 4" Electric	Pumps	3547	220	16	Diesel	10	0.74		
Bouldin I-Central - 5	CAT 825H Compactor	Rollers	324	220	1	Diesel	145	0.38		
Bouldin I-Central - 5	CAT CB-634D Vibratory 84"	Rollers	324	220	1	Diesel	315	0.38		
Bouldin I-Central - 5	CAT Grader 16H	Grader	324	220	1	Diesel	285	0.41		
Bouldin I-Central - 5	CAT 980 Loader 7.5 CY	Grader	324	220	1	Diesel	285	0.41		
Bouldin I-Central - 5	CAT D8 Dozer	Crawler Tractor	324	220	1	Diesel Tier 4 or Hybrid Diesel	179	0.43		
Bouldin I-Central - 5	Hydraulic 9 Ton Crane	Crane	63	220	0	Diesel	85	0.29		
Bouldin I-Central - 6	CAT CB-634D Vibratory 84"	Rollers	5666	250	23	Diesel	145	0.38		
Bouldin I-Central - 6	CAT Grader 16H	Graders	5666	250	23	Diesel	285	0.41		
Bouldin I-Central - 6	CAT D8 Dozer	Crawler Tractor	5666	250	23	Diesel	328	0.43		
Bouldin I-Central - 7	Hydraulic 9 Ton Crane	Crane	226	35	6	Diesel	85	0.29		
Bouldin I-Central - 8	CAT Hyd Excavator 1CY	Excavator	9.2	18	1	Diesel	138	0.38		
Bouldin I-Central - 8	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	9.2	18	1	Diesel or Hybrid	130	0.36		
Bouldin I-Central - 9	Manitowoc 777 200 Ton Crane	Crane	1038.8	85	12	Diesel	760	0.29		
Bouldin I-Central - 9	1600 CFM Compressor Diesel	Air Compressor	519.4	85	6	Diesel Tier 4	540	0.48		
Bouldin I-Central - 9	Hydraulic 55 Ton Crane	Crane	1038.8	85	12	Diesel	350	0.29		
Bouldin I-Central - 9	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	883	85	10	Diesel or Hybrid	130	0.36		
Bouldin I-Central - 9	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	519.4	85	6	Diesel	8	0.56		
Bouldin I-Central - 9	Slurry Wall Techniwell	Pumps	519.4	85	6	Diesel	500	0.74		
Bouldin I-Central - 9	CAT Hyd Excavator 1CY	Excavator	363.5	85	4	Diesel	138	0.38		
Bouldin I-Central - 9	Hydraulic Excavator to 3.5 tons = Kobelco SK485	Excavator	378.8	85	4	Diesel	345	0.38		
Bouldin I-Central - 9	250 CFM Compressor Diesel	Air Compressor	28.7	85	0	Diesel Tier 3	75	0.48		
Bouldin I-Central - 9	Hydraulic 9 Ton Crane	Crane	15.3	85	0	Diesel	85	0.29		
Bouldin I-Central - 9	Hydraulic 40 Ton Crane	Crane	15.3	85	0	Diesel	300	0.29		
Bouldin I-Central - 9	CAT Forklift 5,500 LB	Aerial Lift	15.3	85	0	Diesel	63	0.31		
Bouldin I-Central - 10	Manitowoc 777 200 Ton Crane	Crane	647.8	66	10	Diesel	760	0.29		
Bouldin I-Central - 11	Manitowoc 777 200 Ton Crane	Crane	222.9	28	8	Diesel	760	0.29		
Bouldin I-Central - 11	Hydraulic 40 Ton Crane	Crane	76.5	28	3	Diesel	300	0.29		
Bouldin I-Central - 11	Hydraulic 25 Ton Crane	Crane	190	28	7	Diesel	100	0.29		
Bouldin I-Central - 12	Hydraulic 15 Ton Crane	Crane	95.7	10	10	Diesel	85	0.29		
Bouldin I-Central - 12	Dewater Pump 6"	Pump	382.6	10	38	Diesel	50	0.74		
Bouldin I-Central - 12	150 KW Diesel Generator	Generator	95.7	10	10	Diesel Tier 4	183	0.74		
Bouldin I-Central - 13	Manitowoc 777 200 Ton Crane	Crane	88.3	10	9	Diesel	760	0.29		
Bouldin I-Central - 13	250 CFM Compressor Diesel	Air Compressor	20.4	10	2	Diesel Tier 3	75	0.48		
Bouldin I-Central - 13	Trailer Conc Pump 100 CY HR	Pump	20.4	10	2	Diesel	200	0.74		
Bouldin I-Central - 14	Manitowoc 777 200 Ton Crane	Crane	292	20	15	Diesel	760	0.29		
Bouldin I-Central - 14	250 CFM Compressor Diesel	Air Compressor	292	20	15	Diesel Tier 3	75	0.48		
Bouldin I-Central - 15	Manitowoc 777 200 Ton Crane	Crane	390.6	60	7	Diesel	760	0.29		
Bouldin I-Central - 15	250 CFM Compressor Diesel	Air Compressor	569.1	60	9	Diesel Tier 3	75	0.48		
Bouldin I-Central - 15	Manitowoc 999-275 Ton Crane	Crane	272.4	60	4.5	Diesel	900	0.29		
Bouldin I-Central - 15	Trailer Conc Pump 100 CY HR	Pump	279.9	60	5	Diesel	200	0.74		
Bouldin I-Central - 16	Hydraulic 25 Ton Crane	Crane	160	16	10	Diesel	100	0.29		
Bouldin I-Central - 16	Truck Crane Lattice Boom 90T	Crane	160	16	10	Diesel Tier 4	300	0.29		
Bouldin I-Central - 16	1600 CFM Compressor Diesel	Air Compressor	160	16	10	Diesel Tier 4	540	0.48		
Bouldin I-Central - 16	Telescope RT Forklift 5500	Forklift	160	16	10	Diesel	63	0.2		
Bouldin I-Central - 16	Heavy Duty Mechanic Welder	Welder	160	16	10	Diesel	400	0.45		
Bouldin I-Central - 17	250 CFM Compressor Diesel	Air Compressor	1932	167	12	Diesel Tier 3	75	0.48		
Bouldin I-Central - 17	Hydraulic 40 Ton Crane	Crane	756	167	5	Diesel	300	0.29		
Bouldin I-Central - 18	Hydraulic 9 Ton Crane	Crane	9961	1266	8	Diesel	85	0.29		
Bouldin I-Central - 18	Hydraulic 40 Ton Crane	Crane	9961	1266	8	Diesel	300	0.29		
Bouldin I-Central - 18	CAT Forklift 5,500 LB	Aerial Lift	9961	1266	8	Diesel	63	0.31		
Bouldin I-Central - 18	CAT 980 Loader 7.5 CY	Grader	13394.8	1266	11	Diesel	285	0.41		
Bouldin I-Central - 18	250 CFM Compressor Diesel	Air Compressor	20712.9	1266	16	Diesel Tier 3	75	0.48		
Bouldin I-Central - 18	Grout Pump	Cement & Mortar Mix	635.3	1266	1	Diesel	500	0.56		
Bouldin I-Central - 18	Grout Mixer	Cement & Mortar Mix	635.3	1266	1	Diesel	70	0.56		
Bouldin I-Central - 19	Telescope RT Forklift 5500	Forklift	490	50	10	Diesel	63	0.2		
Bouldin I-Central - 19	Heavy Duty Mechanic Welder	Welder	100	50	2.0	Diesel	400	0.45		
Bouldin I-Central - 19	Hydraulic 25 Ton Crane	Crane	100	50	2	Diesel	100	0.29		
Bouldin I-Central - 19	1600 CFM Compressor Diesel	Air Compressor	100	50	2	Diesel Tier 4	540	0.48		
Bouldin I-Central - 19	Truck Crane Lattice Boom 90T	Crane	100	50	2	Diesel Tier 4	300	0.29		
Bouldin I-Central - 19	Manitowoc 777 200 Ton Crane	Crane	715	50	14	Diesel	760	0.29		
Bouldin I-Central - 19	Hydraulic 55 Ton Crane	Crane	815	50	16	Diesel	350	0.29		
Bouldin I-Central - 19	CAT Forklift 5,500 LB	Aerial Lift	389.9	50	8	Diesel	63	0.31		
Bouldin I-Central - 20	CAT Forklift 5,500 LB	Aerial Lift	240	27	9	Diesel	63	0.31		
Bouldin I-Central - 21	CAT D6LGPDozer w winch	Crawler Tractor	30	9	3	Diesel or Hybrid	179	0.43		
Bouldin I-Central - 21	CAT 14 M	Grader	30	9	3	Diesel	274	0.41		

Bouldin I-Central - 21	Water Pump 4" Electric	Pumps	30	9	3	Diesel	10	0.74
Bouldin I-Central - 21	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	30	9	3	Diesel	158	0.38
Bouldin I-Central - 21	Cat 613 C Self Loading Scraper	Scraper	60	9	7	Diesel	187	0.48
Bouldin I-Central - 22	CAT 390 MASS EXC	Excavator	560	144	4	Diesel	534	0.38
Bouldin I-Central - 22	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	1400	144	10	Diesel	345	0.38
Bouldin I-Central - 22	CAT 12 M	Grader	10	144	0	Diesel	173	0.41
Bouldin I-Central - 22	CAT D9R, Dozer w ripper	Crawler Tractor	80	144	1	Diesel	410	0.43
Bouldin I-Central - 22	Cat 6 mgal w/ CAT 725 Tractor, 320hp	Crawler Tractor	580	144	4	Diesel	320	0.43
Bouldin I-Central - 22	Farm Tractor, All Wheel Drive, 285 HP	Off-Highway Tractor	330	144	2	Diesel	80	0.44
Bouldin I-Central - 22	CAT 966 Gil Wheel Loader	Rubber Tired Loader	10	144	0	Diesel	170	0.36
Bouldin I-Central - 22	CAT D8Rii, Dozer w winch	Crawler Tractor	960	144	7	Diesel	310	0.43
Bouldin I-Central - 22	CAT 631G Scraper, Conventional	Scraper	960	144	7	Diesel	515	0.48
Bouldin I-Central - 22	Hydro Mulcher, 18 HP	Pump	140	144	1	Diesel	25	0.29

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Vehicle Inventory for Bouldin Island - Central Tunnel Shaft
Options SA, SB

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint ex. offsite)	#day	Vehicle Hours	Hours/Trip	# of Vehicles Trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/May) (57 frames)
Vehicle Use on Paved Roads --- and Not on Construction Site												
Bouldin I Central - 1	Truck, Flatbed, 10T, Hay	Materials from Stockton	39	400.0	0.6	632	16.2	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 1	Truck, Flatbed, 10T, Hay	Two Cranes and Forklift from and to Stockton	2	3.8	0.6	6	3.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 1	Truck, Flatbed, 10T, Hay	Materials from Stockton	39	18.4	0.6	29	0.7	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 3	Truck, Flatbed, 10T, Hay	Dozer and Grader from Stockton	1	1.3	0.6	2	2.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 3	Truck, Flatbed, 10T, Hay	Scrapper from and to Stockton	2	1.3	0.6	2	1.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 4	Pickup 1/2T 2 WD	Materials from Stockton	295	6880.0	0.6	10863	36.8	Bouldin Island Shaft to/From Stockton	19	38	Hybrid Gasoline	
Bouldin I Central - 4	Truck Flatbed 4 T Highway	Materials from Stockton	295	6880.0	0.6	10863	36.8	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 4	Mechanic Truck	Materials from Stockton	295	6880.0	0.6	10863	36.8	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 4	Truck, Flatbed, 10T, Hay	Crane, two Loaders, two Rollers, and Grader from Stockton	1	3.8	0.6	6	6.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 4	Truck Flatbed 4 T Highway	Materials from Stockton	295	124.8	0.6	197	0.7	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 4	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement from Stockton	295	414.2	0.6	654	2.2	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 5	Pickup 1/2T 2 WD	Materials from Stockton	220	3547.0	0.6	5601	25.5	Bouldin Island Shaft to/From Stockton	19	38	Hybrid Gasoline	
Bouldin I Central - 5	Truck Flatbed 4 T Highway	Materials from Stockton	220	3547.0	0.6	5601	25.5	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 5	Mechanic Truck	Materials from Stockton	220	3547.0	0.6	5601	25.5	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 5	Truck, Flatbed, 10T, Hay	Crane, two Loaders, and Roller to Stockton	1	2.5	0.6	4	4.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 5	Truck, Flatbed, 10T, Hay	Crane from Stockton	1	0.6	0.6	1	1.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 5	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement from Stockton	220	561.8	0.6	887	4.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 6	Highway Dump Truck 18 CY	Materials from Stockton	250	5666.0	0.6	8946	35.8	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 6	Truck, Flatbed, 10T, Hay	Two Dozers, Roller, and three Graders to Stockton	1	3.8	0.6	6	6.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 6	Truck/ End Dump/ 16-20cy/ Hay	S&P Material in Covered Trucks from Twin Cities Complex	250	14699.5	0.9	16961	67.8	Bouldin Island Shaft to/From Twin Cities Complex	26	52	Diesel	
Bouldin I Central - 7	Truck Flatbed 4 T Highway	Materials from Stockton	35	20.9	0.6	33	0.9	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 7	Truck Flatbed 4 T Highway	Rebar from Sacramento	35	10.9	1.4	8	0.2	Bouldin Island Shaft to/From Sacramento	41	82	Diesel	
Bouldin I Central - 7	Concrete Transit Mix Truck 12cy	Concrete from Lodi	35	277.7	0.5	595	17.0	Bouldin Island Shaft to/From Lodi	14	28	Diesel	
Bouldin I Central - 8	Truck Flatbed 4 T Highway	Materials from Stockton	18	20.9	0.6	33	1.8	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 8	Truck Flatbed 4 T Highway	Rebar from Sacramento	18	1.4	1.4	1	0.1	Bouldin Island Shaft to/From Sacramento	41	82	Diesel	
Bouldin I Central - 8	Concrete Transit Mix Truck 12cy	Concrete from Lodi	18	15.9	0.5	34	1.9	Bouldin Island Shaft to/From Lodi	14	28	Diesel	
Bouldin I Central - 9	Truck, Flatbed, 10T, Hay	Materials from Stockton	85	15.3	0.6	24	0.3	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 9	Truck, Flatbed, 10T, Hay	Two Cranes and Forklift from Stockton	1	1.9	0.6	3	3.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 9	Truck, Flatbed, 10T, Hay	Two Excavators, Crane, and Loader from and to Stockton	2	5.1	0.6	8	4.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 9	Truck Flatbed 4 T Highway	Materials from Stockton	85	20.9	0.6	33	0.4	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 9	Truck Flatbed 4 T Highway	Rebar from Sacramento	85	28.7	1.4	21	0.2	Bouldin Island Shaft to/From Sacramento	41	82	Diesel	
Bouldin I Central - 9	Concrete Transit Mix Truck 12cy	Concrete from Lodi	85	1104.6	0.5	2367	27.8	Bouldin Island Shaft to/From Lodi	14	28	Diesel	
Bouldin I Central - 9	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	85	222.8	1.4	163	1.9	Bouldin Island Shaft to/From Sacramento	41	82	Diesel	
Bouldin I Central - 10	Concrete Transit Mix Truck 12cy	Concrete from Lodi	66	460.1	0.5	986	14.9	Bouldin Island Shaft to/From Lodi	14	28	Diesel	
Bouldin I Central - 11	Truck, Flatbed, 10T, Hay	Crane from Stockton	1	0.6	0.6	1	1.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 11	Truck Flatbed 4 T Highway	Materials from Stockton	28	20.9	0.6	33	1.2	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 11	Truck Flatbed 4 T Highway	Rebar from Sacramento	28	19.1	1.4	14	0.5	Bouldin Island Shaft to/From Sacramento	41	82	Diesel	
Bouldin I Central - 11	Concrete Transit Mix Truck 12cy	Concrete from Lodi	28	1029.0	0.5	2205	78.8	Bouldin Island Shaft to/From Lodi	14	28	Diesel	
Bouldin I Central - 12	Truck, Flatbed, 10T, Hay	Crane from and to Stockton	2	1.3	0.6	2	1.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 13	Truck Flatbed 4 T Highway	Materials from Stockton	10	20.9	0.6	33	3.3	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 13	Truck Flatbed 4 T Highway	Rebar from Sacramento	10	2.7	1.4	2	0.2	Bouldin Island Shaft to/From Sacramento	41	82	Diesel	
Bouldin I Central - 13	Concrete Transit Mix Truck 12cy	Concrete from Lodi	10	40.1	0.5	86	8.6	Bouldin Island Shaft to/From Lodi	14	28	Diesel	
Bouldin I Central - 14	Truck Flatbed 4 T Highway	Rebar from Sacramento	20	6.8	1.4	5	0.3	Bouldin Island Shaft to/From Sacramento	41	82	Diesel	
Bouldin I Central - 15	Truck, Flatbed, 10T, Hay	Crane to Stockton	1	0.6	0.6	1	1.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 15	Truck Flatbed 4 T Highway	Materials from Stockton	60	20.9	0.6	33	0.6	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 15	Concrete Transit Mix Truck 12cy	Concrete from Lodi	60	221.2	0.5	474	7.9	Bouldin Island Shaft to/From Lodi	14	28	Diesel	
Bouldin I Central - 16	Truck, Flatbed, 10T, Hay	Crane to Stockton	1	0.6	0.6	1	1.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 16	Truck, Flatbed, 10T, Hay	Crane from and to Stockton	2	1.3	0.6	2	1.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 17	Truck, Flatbed, 10T, Hay	Pre Cast Segments from Stockton	167	459.8	0.6	726	4.3	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 17	Highway Dump Truck 18 CY	Grout from Lodi	167	342.5	0.5	734	4.4	Bouldin Island Shaft to/From Lodi	14	28	Diesel	
Bouldin I Central - 18	Truck, Flatbed, 10T, Hay	Two Cranes to Stockton	1	1.3	0.6	2	2.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 18	Truck, Flatbed, 10T, Hay	Loader from and to Stockton	2	1.3	0.6	2	1.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 18	Truck Flatbed 4 T Highway	Materials from Stockton	1266	198.2	0.6	313	0.2	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 18	Truck, Flatbed, 10T, Hay	Pre Cast Segments from Stockton	1266	11711.6	0.6	18492	14.6	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 18	Highway Dump Truck 18 CY	Grout from Lodi	1266	3006.3	0.5	6442	5.1	Bouldin Island Shaft to/From Lodi	14	28	Diesel	
Bouldin I Central - 19	Truck, Flatbed, 10T, Hay	Three Cranes from and to Stockton	2	3.8	0.6	6	3.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 20	Truck, Flatbed, 10T, Hay	Forklift to Stockton	1	0.6	0.6	1	1.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 20	Truck, Flatbed, 10T, Hay	Two Cranes from and to Stockton	2	2.5	0.6	4	2.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 21	Pickup 1/2T 2 WD	Materials from Stockton	9	30.0	0.6	47	5.3	Bouldin Island Shaft to/From Stockton	19	38	Hybrid Gasoline	
Bouldin I Central - 21	Truck, Flatbed, 10T, Hay	Roller to Stockton	1	0.6	0.6	1	1.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 21	Truck, Flatbed, 10T, Hay	Tractor, Grader, Roller, and scraper from and to Stockton	2	5.1	0.6	8	4.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	
Bouldin I Central - 21	Highway Dump Truck 18 CY	Base Rock from Lodi	9	25.2	0.5	54	6.0	Bouldin Island Shaft to/From Lodi	14	28	Diesel	
Bouldin I Central - 22	Pickup 1/2T 2 WD	Materials from Stockton	144	560.0	0.6	884	6.1	Bouldin Island Shaft to/From Stockton	19	38	Hybrid Gasoline	
Bouldin I Central - 22	Truck, Flatbed, 10T, Hay	Scrapper from and to Stockton	2	1.3	0.6	2	1.0	Bouldin Island Shaft to/From Stockton	19	38	Diesel	

Boulder I Central - 22	Truck, Flatbed, 10T, Hwy	Two Excavators, Grader, 4 Tractors, Loader, and Scraper from and to Stockton	2	11.4	0.6	18	9.0	Boulder Island Shaft to/from Stockton	19	38	Diesel
Boulder I Central - 22	Truck Flatbed 4 T Highway	Materials from Stockton	144	55.1	0.6	87	0.6	Boulder Island Shaft to/from Stockton	19	38	Diesel

Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) ... on the Construction Site								Miles On-Site		
Boulder I Central - 5	Concrete Pump Truck	Off-Highway Truck	220	464.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2320	Diesel
Boulder I Central - 7	Concrete Pump Truck	Off-Highway Truck	35	280.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1400	Diesel
Boulder I Central - 8	CAT 730 Rear Dump	Dumper	18	148	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	740	Diesel or Hybrid
Boulder I Central - 9	CAT 730 Rear Dump	Dumper	85	619	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3095	Diesel or Hybrid
Boulder I Central - 9	Articulated Rear Dump 22 CY/CAT 730	Dumper	85	518.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2587	Diesel or Hybrid
Boulder I Central - 9	Concrete Pump Truck	Off-Highway Truck	85	1038.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	5195	Diesel
Boulder I Central - 11	Concrete Pump Truck	Off-Highway Truck	28	197.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	987	Diesel
Boulder I Central - 22	CAT 740 40T, Articulated End dump Truck, End Dump, 10-13cy, Hwy	Dumper	144	280.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1400	Diesel or Hybrid
Boulder I Central - 22			144	6720.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	33600	Diesel

Offroad Equipment (Electric) Inventory for Bouldin Island - Central Tunnel Shaft
Options 5A, 5B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
Bouldin I-Central - 17	Gantry Crane	966	167	0.25	1
Bouldin I-Central - 17	Axial Fan 114,000 CFM	1386	167	50	415
Bouldin I-Central - 18	Axial Fan 114,000 CFM	188620	1266	50	7,449
Bouldin I-Central - 18	Gantry Crane	28335.6	1266	0.25	6
Bouldin I-Central - 19	Gantry Crane	390	50	0.25	2
Bouldin I-Central - 20	Gantry Crane	240	27	0.25	2

Electricity for TBM Operations included in the Summary Workbook

Employees Required to Bouldin Island - Central Tunnel Shaft
Options 5A, 5B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute miles/ 1 way trip/ day
Bouldin I-Central - 1	Bullgang Foreman	400	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 1	Bullgang Laborer	800	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 1	Mechanic / Welder	400	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 1	Hyd Crane Operator	800	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 1	Flat Truck Driver	400	10		Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-1						
Bouldin I-Central - 2	Accountant	10886.4	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Concrete Superintendent	5443.2	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Cost Engineer	10886.4	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Electrical Superintendent	10886.4	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	EMT	10886.4	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Environmental Manager	10886.4	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Equipment Superintendent	10886.4	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Field Engineer	8164.8	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	General Superintendent	10886.4	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Geotechnical Manager	10886.4	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Office Administrator	10886.4	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Office Manager	10886.4	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Payroll Clerk	10886.4	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Project Engineer	10886.4	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Project Manager	10886.4	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Purchasing Agent	10886.4	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	QC Manager	10886.4	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	QC Technician	5443.2	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Runner	10886.4	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Safety Engineer	21772.8	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Safety Manager	10886.4	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Schedule Engineer	5443.2	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Shift Engineers	21772.8	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Survey Party Chief	10886.4	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Survey Rod Man	10886.4	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Tunnel Superintendent	10886.4	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Tunnel Walkers	21772.8	10		Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-2						
Bouldin I-Central - 3	General Foreman	509	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 3	Dozer Operator	1018	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 3	Grader Operator	1018	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 3	Operator G4 Grade Check	509	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 3	Scraper Operator	2036	10		Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-3						
Bouldin I-Central - 4	Laborer G2 General	20640	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 4	Operator G3a Crane	6880	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 4	Operator G3 BH Loader	6880	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 4	Operating Engineer	6880	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 4	Operator G4 Grade Check	6880	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 4	Operator G4 Heavy Duty Mechanic	6880	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 4	Operator G2 Plant Operator	13760	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 4	Teamster G1 Hwy	6880	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 4	Teamster G2 Hwy	6880	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 4	Loader Operator	122	10		Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-4						
Bouldin I-Central - 5	Bottomlander	292	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Carpenter	1180	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Carpenter Foreman	179	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Compactor Operator	648	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Crane Oiler	292	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Dozer Operator	324	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Flagger	648	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	General Foreman	324	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	General Laborer	1318	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Grade Setter / Checker	324	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Grader Operator	324	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Hyd Crane Operator	375	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Iron Worker	3120	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Iron Worker Foreman	312	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Laborer G2 General	10641	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Loader Operator	202	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Operating Engineer	3547	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Operator G2 Plant Operator	7094	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Operator G3 BH Loader	3547	10		Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Operator G3a Crane	3547	10		Lodi to/from Bouldin Island Shaft	14

Bouldin I-Central - 5	Operator G4 Grade Check	3547	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Operator G4 Heavy Duty Mechanic	3547	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Teamster G1 Hwy	3547	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Teamster G2 Hwy	3547	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Truck Driver	464	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Water Tanker Off road	202	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-5					
Bouldin I-Central - 6	Grade Setter / Checker	5666	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 6	Compactor Operator	5666	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 6	Dozer Operator	5666	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 6	Grader Operator	5666	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 6	Truck Driver	5666	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-6					
Bouldin I-Central - 7	Hyd Crane Operator	226	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 7	General Laborer	366	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 7	Carpenter	712	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 7	Carpenter Foreman	108	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 7	Iron Worker Foreman	188	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 7	Iron Worker	1880	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 7	Truck Driver	280	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-7					
Bouldin I-Central - 8	Shifter	9.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 8	Lead Miner	9.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 8	Miner	9.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 8	Loader Operator	9.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 8	Excavator Operator	9.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 8	Truck Driver	146.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 8	Carpenter	654.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 8	Carpenter Foreman	163.6	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 8	General Laborer	15.3	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-8					
Bouldin I-Central - 9	General Laborer	6861.9	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	General Foreman	1402.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Shaft Crane Operator	1038.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Crane Oiler	1038.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Truck Driver	592.1	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Hyd Crane Operator	1069.4	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Shifter	1558.174	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Lead Miner	519.4	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Miner	4155.1	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Iron Worker Foreman	1056.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Iron Worker	5263.9	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Excavator Operator	378.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Bullgang Foreman	15.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Bullgang Laborer	30.7	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Flat Truck Driver	15.4	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Carpenter	81.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Carpenter Foreman	20.3	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-9					
Bouldin I-Central - 10	Shaft Crane Operator	647.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 10	Toplander	647.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 10	Crane Oiler	647.8	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-10					
Bouldin I-Central - 11	Shifter	346.9	24	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 11	Miner	978.8	24	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 11	Iron Worker Foreman	299.4	24	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 11	Iron Worker	2395.1	24	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 11	Shaft Crane Operator	222.9	24	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 11	Toplander	529	24	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 11	Bottomlander	222.9	24	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 11	Hyd Crane Operator	266.5	24	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 11	Lead Miner	47.5	24	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-11					
Bouldin I-Central - 12	Shifter	95.7	24	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 12	Lead Miner	95.7	24	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 12	Miner	765.2	24	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 12	Hyd Crane Operator	95.7	24	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-12					
Bouldin I-Central - 13	Shifter	88.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 13	Miner	298.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 13	Shaft Crane Operator	88.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 13	Toplander	88.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 13	Crane Oiler	88.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 13	Iron Worker	543.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 13	Iron Worker Foreman	67.9	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 13	Lead Miner	20.4	10	Lodi to/from Bouldin Island Shaft	14

Bouldin I-Central - 13	Mechanic Welder	20.4	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 13	Electrician	20.4	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-13					
Bouldin I-Central - 14	Shaft Crane Operator	292	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 14	Toplander	292	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 14	Bottomlander	292	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 14	Crane Oiler	292	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 14	Iron Worker	2336.6	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 14	Iron Worker Foreman	292	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-14					
Bouldin I-Central - 15	Bottomlander	390.6	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 15	Concrete Pump Operator	230.1	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 15	Crane Oiler	613.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 15	Electrician	93.9	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 15	Lead Miner	663	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 15	Mechanic Welder	432.9	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 15	Miner	3683.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 15	Shaft Crane Operator	663	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 15	Shifter	663	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 15	Toplander	663	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 15	Truck Driver	11132	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-15					
Bouldin I-Central - 16	Bullgang Foreman	160	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 16	Bullgang Laborer	960	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 16	Mechanic / Welder	160	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 16	Master Mechanic	480	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 16	Shaft Crane Operator	160	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 16	Crane Oiler	160	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 16	Electrician	160	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 16	Hyd Crane Operator	160	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-16					
Bouldin I-Central - 17	Bottomlander	966	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Conveyor Belt Man	840	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Crane Oiler	966	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Electrician	3066	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Hyd Crane Operator	756	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Lead Miner	2142	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Mechanic / Welder	3066	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Miner	14364	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Segment Carrier Operator	2016	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Segment Carrier Operator	2016	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Shaft Crane Operator	966	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Shifter	2142	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	ST2G Mucker Operator	336	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	TBM Operator	2352	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Toplander	966	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-17					
Bouldin I-Central - 18	Bottomlander	28335.6	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Bullgang Foreman	32186	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Bullgang Laborer	108822.5	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Conveyor Belt Man	23861.3	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Crane Oiler	28335.6	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Electrician	45588.48	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Fanline Carrier Operator	21907.2	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Flat Truck Driver	9961.5	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Hyd Crane Operator	19923.1	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Lead Miner	23681	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Loader Operator	13394	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Man Transport Truck Operator	22224.86	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Master Mechanic	10953.6	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Mechanic / Welder	66503.61	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Miner	180311	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Segment Carrier Operator	148814.1	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Shaft Crane Operator	28335.56	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Shifter	23681.28	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	TBM Operator	47362.56	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Toplander	28335.56	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Utility Truck Operator	22224.86	20	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-18					
Bouldin I-Central - 19	Bottomlander	1105	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Crane Oiler	815	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Electrician	1919.9	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Bullgang Foreman	100	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Bullgang Laborer	600	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Lead Miner	1104.9	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Mechanic / Welder	2219.9	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Miner	4899.6	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Shaft Crane Operator	1204.9	10	Lodi to/from Bouldin Island Shaft	14

Bouldin I-Central - 19	Shifter	1104.9	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Toplander	1104.9	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Utility Truck Operator	239.9	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-19					
Bouldin I-Central - 20	Bottomlander	240	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Electrician	240	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Forklift Operator	240	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Lead Miner	240	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Mechanic / Welder	240	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Miner	1439.6	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Shaft Crane Operator	240	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Shifter	240	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Toplander	240	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Utility Truck Operator	240	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-20					
Bouldin I-Central - 21	Laborer G2 General	30	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 21	Operator G7 Roller, Compactor	30	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 21	Operator G4 Dozer & Push Cat	30	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 21	Operator G4 Scraper	60	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 21	OPERATING ENGINEER FOREMAN	310	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 21	Operator G4 Grade Check	30	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 21	Operator G2 Finish Blade	30	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-21					
Bouldin I-Central - 22	Laborer G2 Concrete Laborer	840	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Operator G2 Excavator 3.5 to 7.0 cy	1680	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Operator G3 Loader >4cy	570	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Teamster G4 ED 25-65 Cy	280	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	OPERATING ENGINEER FOREMAN	447	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Operator G2 Finish Blade	10	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Operator G4 Dozer & Push Cat	1040	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Laborer G3 Flagman	980	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Operator G6 Tractor	330	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Operator G4 Scraper	960	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	OPERATING ENGINEER FOREMAN	240	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Laborer G2 General	290	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-22					

Marine Inventory for Bouldin Island - Central Tunnel Shaft
Options 5A, 5B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Bouldin Island - Central Tunnel Shaft
Options 5A, 5B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

Helicopter Inventory for Bouldin Island - Central Tunnel Shaft
Options 5A, 5B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Bouldin Island - Central Tunnel Shaft
Options 5A, 5B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
Bouldin I-Central - 3	338	19	17.8	256575.8	13504						
Bouldin I-Central - 5		220									
Bouldin I-Central - 6		250									
Bouldin I-Central - 7		35									
Bouldin I-Central - 8		18									
Bouldin I-Central - 9		85									
Bouldin I-Central - 10		66									
Bouldin I-Central - 11		28									
Bouldin I-Central - 13		10									
Bouldin I-Central - 15		60									
Bouldin I-Central - 18		1266									
Bouldin I-Central - 22	15	144	0.1								

**Demolition Assumptions for Bouldin Island - Central Tunnel Shaft
Options 5A, 5B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Bacon Island and Mandeville Island Access Road and New Overpass in Holt
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Lower Jones T Access Roadway Excavation	BI_MI Access -1	4/27/2026	5/14/2026	14	5	10
Lower Jones T Access Embankment	BI_MI Access -2	5/15/2026	6/3/2026	14	5	10
Lower Jones T Access Culvert Pipe	BI_MI Access -3	6/4/2026	6/9/2026	5	5	10
Lower Jones T Access Subdrain System	BI_MI Access -4	6/10/2026	7/31/2026	38	5	10
Lower Jones T Access Road Base and K Rails	BI_MI Access -5	8/3/2026	9/21/2026	38	5	10
Lower Jones T Access Overpass Roadway Excavation	BI_MI Access -6	9/21/2026	9/22/2026	2	2	10
Lower Jones T Access Overpass Embankment	BI_MI Access -7	9/23/2026	9/28/2026	5	5	10
Lower Jones T Access Overpass New Bridge/Overpass	BI_MI Access -8	9/23/2026	10/20/2026	20	5	10
Lower Jones T Access Overpass Culvert Pipe	BI_MI Access -9	9/29/2026	9/29/2026	1	1	10
Lower Jones T Access Overpass Subdrain System	BI_MI Access -10	9/30/2026	10/2/2026	3	3	10
Lower Jones T Access Overpass Road Base	BI_MI Access -11	10/5/2026	10/7/2026	3	3	10
Lower Jones T Access Paving and K Rails	BI_MI Access -12	10/8/2026	10/12/2026	5	5	10
Bacon I & Mandeville I Access Roadway Excavation	BI_MI Access -13	10/8/2026	10/20/2026	9	5	10
Bacon I & Mandeville I Access Embankment	BI_MI Access -14	10/29/2026	11/13/2026	12	5	10
Bacon I & Mandeville I Access Culvert Pipe	BI_MI Access -15	11/16/2026	11/18/2026	3	3	10
Bacon I & Mandeville I Access Subdrain System	BI_MI Access -16	11/19/2026	1/5/2027	34	5	10
Bacon I & Mandeville I Access Road Base	BI_MI Access -17	1/6/2027	2/3/2027	21	5	10
Mandeville I Access Roadway Excavation & Bridge Removal	BI_MI Access -18	10/3/2027	11/5/2027	20	5	10
Mandeville I Access New Bridge	BI_MI Access -19	10/13/2027	3/30/2028	121	5	10
Mandeville I Access Embankment	BI_MI Access -20	11/8/2027	11/22/2027	9	5	10
Mandeville I Access Culvert Pipe	BI_MI Access -21	11/23/2027	11/24/2027	2	2	10
Mandeville I Access Subdrain System	BI_MI Access -22	11/25/2027	12/22/2027	20	5	10
Mandeville I Access Road Base	BI_MI Access -23	3/21/2028	4/5/2028	12	5	10
Lower Jones T 12-month Maintenance #1	BI_MI Access -24	4/1/2028	4/15/2028	9	5	10
Bacon I 12-month Maintenance #1	BI_MI Access -25	4/1/2028	4/15/2028	9	5	10
Lower Jones T 12-month Maintenance #2	BI_MI Access -26	4/1/2029	4/15/2029	9	5	10
Bacon I & Mandeville I 12-month Maintenance #2	BI_MI Access -27	4/1/2029	4/15/2029	9	5	10
Lower Jones T Overlay #1	BI_MI Access -28	6/13/2030	6/14/2030	2	2	10
Lower Jones T Overlay #2	BI_MI Access -29	8/7/2037	8/11/2037	5	5	10
Lower Jones Tract Access - Paved and Gravel Roads - Acres		22				
Bacon I & Mandeville I Access - Gravel Road - Acres		15				
Mandeville I Access - Gravel Road - Acres		9.5				

Construction Schedule for Mandeville Island - Central Tunnel Shaft						
Options 5A, 5B						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Clear and Grub	MI-Central - 1	2/27/2030	3/19/2030	15	5	10
Ground Improvement	MI-Central - 2	3/20/2030	5/14/2030	40	5	10
Raise Shaft Pad	MI-Central - 3	5/15/2030	5/13/2031	261	5	10
Excavate, Set Strips, & Place Guide Wall	MI-Central - 4	5/14/2031	5/30/2031	9	5	10
Place Guide Walls Concrete	MI-Central - 5	6/11/2031	6/11/2031	1	1	10
Excavate Slurry Wall & Place Concrete & Rebar	MI-Central - 6	6/12/2031	8/27/2031	54	7	24
Slurry Wall including Strip Forms and Place Rebar & Top Beam	MI-Central - 7	8/28/2031	9/2/2031	5	7	24
Excavate Shaft	MI-Central - 8	9/3/2031	10/10/2031	28	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	MI-Central - 9	10/13/2031	10/17/2031	5	7	24
Dewater Shaft	MI-Central - 10	10/27/2031	10/31/2031	5	7	24
Place TBM Cradle Rebar and Cradle Pour	MI-Central - 11	11/3/2031	11/6/2031	4	5	10
Breakout Slurry Wall for TBM	MI-Central - 12	11/11/2031	12/5/2031	19	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	MI-Central - 13	11/11/2031	3/1/2032	80	5	10
Place Shaft Cover	MI-Central - 14	3/1/2032	3/9/2032	7	5	10
Total Site Acres	14					

Offroad Equipment (Fossil Fuel) Inventory for Mandeville Island - Central Tunnel Shaft
Options 5A, 5B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
Mi-Central - 1	CAT D8 Dozer	Crawler Tractor	28.86	15	2	Diesel Tier 4 or Hybrid Diesel	179	0.43		
Mi-Central - 1	CAT Grader 16H - 16' Blade	Grader	28.86	15	2	Diesel	285	0.41		
Mi-Central - 1	623G Scraper Elevate 21 CY	Scraper	57.72	15	4	Diesel	359	0.48		
Mi-Central - 2	Air Compressor 375 CFM	Air Compressor	240	40	6	Diesel Tier 4	122	0.48		
Mi-Central - 2	Grove RT Crane 30T	Crane	240	40	6	Diesel	160	0.29		
Mi-Central - 2	DMM Deep Soil Mixer	Bore Drill Rig	240	40	6	Diesel	522	0.5		
Mi-Central - 2	DMM Grout Mix Plant	Other Industrial Equipmen	240	40	6	Diesel	500	0.34		
Mi-Central - 2	Portable 90 Kw Diesel	Generators	40	40	1	Diesel Tier 4	158	0.74		
Mi-Central - 2	Case 590 SupN Loader	Rubber Tired Loaders	240	40	6	Diesel	110	0.36		
Mi-Central - 2	Water Pump 4" Electric	Pumps	532.44	40	13	Diesel	10	0.74		
Mi-Central - 3	CAT CB-634D Vibratory 84"	Rollers	1900.4	261	7	Diesel	145	0.38		
Mi-Central - 3	CAT Grader 16H	Graders	1900.4	261	7	Diesel	285	0.41		
Mi-Central - 3	CAT D8 Dozer	Crawler Tractor	1900.4	261	7	Diesel	328	0.43		
Mi-Central - 4	CAT Hyd Excavator 1CY	Excavator	4.5	9	1	Diesel	138	0.38		
Mi-Central - 4	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	4.5	9	1	Diesel or Hybrid	130	0.36		
Mi-Central - 6	1600 CFM Compressor Diesel	Air Compressor	169.6	54	3	Diesel Tier 4	540	0.48		
Mi-Central - 6	CAT Hyd Excavator 1CY	Excavator	356.6	54	7	Diesel	138	0.38		
Mi-Central - 6	Hydraulic 55 Ton Crane	Crane	339.2	54	6	Diesel	350	0.29		
Mi-Central - 6	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	347.9	54	6	Diesel or Hybrid	130	0.36		
Mi-Central - 6	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	169.6	54	3	Diesel	8	0.56		
Mi-Central - 6	Slurry Wall Techniwell	Pumps	169.6	54	3	Diesel	500	0.74		
Mi-Central - 6	Manitowoc 777 200 Ton Crane	Crane	339.2	54	6	Diesel	760	0.29		
Mi-Central - 7	250 CFM Compressor Diesel	Air Compressor	2.5	5	0.5	Diesel Tier 3	75	0.48		
Mi-Central - 8	Manitowoc 777 200 Ton Crane	Crane	132.4	28	5	Diesel	760	0.29		
Mi-Central - 9	Manitowoc 777 200 Ton Crane	Crane	84	5	17	Diesel	760	0.29		
Mi-Central - 9	Hydraulic 40 Ton Crane	Crane	27.3	5	5	Diesel	300	0.29		
Mi-Central - 9	Hydraulic 25 Ton Crane	Crane	57.9	5	12	Diesel	100	0.29		
Mi-Central - 10	Dewater Pump 6"	Pump	302.9	5	61	Diesel	50	0.74		
Mi-Central - 10	150 KW Diesel Generator	Generator	75.7	5	15	Diesel Tier 4	183	0.74		
Mi-Central - 10	Hydraulic 15 Ton Crane	Crane	75.7	5	15	Diesel	100	0.29		
Mi-Central - 11	Manitowoc 777 200 Ton Crane	Crane	26.7	4	7	Diesel	760	0.29		
Mi-Central - 11	250 CFM Compressor Diesel	Air Compressor	6.2	4	2	Diesel Tier 3	75	0.48		
Mi-Central - 11	Trailer Conc Pump 100 CY HR	Pump	6.2	4	2	Diesel	200	0.74		
Mi-Central - 12	250 CFM Compressor Diesel	Air Compressor	89.9	19	5	Diesel Tier 3	75	0.48		
Mi-Central - 12	Manitowoc 777 200 Ton Crane	Crane	89.9	19	5	Diesel	760	0.29		
Mi-Central - 13	Hydraulic 9 Ton Crane	Crane	200.5	80	3	Diesel	85	0.29		
Mi-Central - 13	250 CFM Compressor Diesel	Air Compressor	530	80	7	Diesel Tier 3	75	0.48		
Mi-Central - 13	Trailer Conc Pump 100 CY HR	Pump	243.2	80	3	Diesel	200	0.74		
Mi-Central - 13	Manitowoc 777 200 Ton Crane	Crane	77.2	80	1	Diesel	760	0.29		
Mi-Central - 13	Manitowoc 999-275 Ton Crane	Crane	97.2	80	1	Diesel	900	0.29		
Mi-Central - 14	Hydraulic 9 Ton Crane	Crane	37.9	7	5	Diesel	85	0.29		
Mi-Central - 14	Hydraulic 40 Ton Crane	Crane	37.9	7	5	Diesel	300	0.29		
Mi-Central - 14	CAT Forklift 5,500 LB	Aerial Lift	37.9	7	5	Diesel	63	0.31		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Mandeville Island - Central Tunnel Shaft
Options 5A, 5B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
MI-Central - 13	Axial Fan 114,000 CFM	45.4	80	50	28
MI-Central - 13	Electric Welder 400 AMP	155.1	80	15	29

Vehicle Inventory for Mandeville Island - Central Tunnel Shaft
Options 5A, 5B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/trip	# of Vehicles Trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
Mt-Central - 1	Truck, Flatbed, 10T, Hwy	Grader and Scraper to and from Stockton	2	3	0.8	4	2.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mt-Central - 1	Truck, Flatbed, 10T, Hwy	Crawler Tractor from Stockton	1	1	0.8	1	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mt-Central - 1	Pickup 1/2T 2 WD	Materials from Stockton	15	29	0.8	37	2	Mandeville I Shaft to/from Stockton	23	46	Hybrid Gasoline	
Mt-Central - 2	Pickup 1/2T 2 WD	Materials from Stockton	40	532.44	0.8	694	17	Mandeville I Shaft to/from Stockton	23	46	Hybrid Gasoline	
Mt-Central - 2	Truck Flatbed 4 T Highway	Materials from Stockton	40	532.44	0.8	694	17	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mt-Central - 2	Mechanic Truck	Materials from Stockton	40	532.44	0.8	694	17	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mt-Central - 2	Truck, Flatbed, 10T, Hwy	Crane, Trencher, & Other Equipment to and from Stockton	2	82	0.8	107	53.5	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mt-Central - 2	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement	40	312.7	2.3	134	3	Mandeville Island Shaft to/from Sacramento	70	140	Diesel	
Mt-Central - 2	Pickup 1/2T 2 WD	Materials from Stockton	40	6	0.8	8	1.0	Mandeville I Shaft to/from Stockton	23	46	Hybrid Gasoline	
Mt-Central - 2	Pickup 1/2T 2 WD	Materials from Stockton	40	29	0.8	37	0.93	Mandeville I Shaft to/from Stockton	23	46	Hybrid Gasoline	
Mt-Central - 3	Highway Dump Truck 18 CY	Materials from Stockton	261	1900.4	0.8	2479	9	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mt-Central - 3	Truck End Dump 16-20cy Hwy	RTM Material in Covered Trucks from Twin Cities Complex	261	10407	1.9	5575	21	Mandeville I Shaft to/from Twin Cities Complex	56	112	Diesel	
Mt-Central - 3	Truck, Flatbed, 10T, Hwy	Grader and Roller to and from Stockton	2	3	0.8	4	2.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mt-Central - 3	Truck, Flatbed, 10T, Hwy	Crawler Tractor to Stockton	1	1	0.8	1	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mt-Central - 3	Pickup 1/2T 2 WD	Materials from Stockton	261	29	0.8	37	0.14	Mandeville I Shaft to/from Stockton	23	46	Hybrid Gasoline	
Mt-Central - 4	Truck, Flatbed, 10T, Hwy	Excavator to and from Stockton	2	2	0.8	2	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mt-Central - 4	Truck, Flatbed, 10T, Hwy	Loader from Stockton	1	1	0.8	1	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mt-Central - 4	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	9	2	1.6	1	0.1	Mandeville I Shaft to/from Livermore	48	96	Diesel	
Mt-Central - 5	Concrete Transit Mix Truck 12cy	Concrete from Bacon Island	1	5	0.3	18	18	Mandeville I Shaft to/from Bacon Island	8	16	Diesel	
Mt-Central - 5	Highway Dump Truck 18 CY	Cement, Aggregate, and Sand from Stockton	1	10	0.8	14	14	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mt-Central - 5	Highway Dump Truck 18 CY	Flyash from Vernalis	1	1	1.7	1	1	Mandeville I Shaft to/from Vernalis	50	100	Diesel	
Mt-Central - 6	Concrete Transit Mix Truck 12cy	Concrete from Bacon Island	54	119	0.3	448	8	Mandeville I Shaft to/from Bacon Island	8	16	Diesel	
Mt-Central - 6	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	54	32	1.6	20	0.4	Mandeville I Shaft to/from Livermore	48	96	Diesel	
Mt-Central - 6	Truck, Flatbed, 10T, Hwy	Crane and Other Equipment to and from Stockton	2	3	0.8	4	2.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mt-Central - 6	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	1	0.8	1	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mt-Central - 6	Highway Dump Truck 18 CY	Cement, Aggregate, and Sand from Stockton	54	258	0.8	337	6	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mt-Central - 6	Highway Dump Truck 18 CY	Flyash from Vernalis	54	19	1.7	11	0	Mandeville I Shaft to/from Vernalis	50	100	Diesel	
Mt-Central - 7	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	5	345	2.3	148	30	Mandeville I Shaft to/from Sacramento	70	140	Diesel	
Mt-Central - 7	Truck, Flatbed, 10T, Hwy	Loader to Stockton	1	1	0.8	1	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mt-Central - 7	Concrete Transit Mix Truck 12cy	Concrete from Bacon Island	5	2	0.3	9	2	Mandeville I Shaft to/from Bacon Island	8	16	Diesel	
Mt-Central - 7	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	5	2	1.6	1	0.2	Mandeville I Shaft to/from Livermore	48	96	Diesel	
Mt-Central - 7	Highway Dump Truck 18 CY	Cement, Aggregate, and Sand from Stockton	5	5	0.8	7	1	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mt-Central - 7	Highway Dump Truck 18 CY	Flyash from Vernalis	5	1	1.7	0	0	Mandeville I Shaft to/from Vernalis	50	100	Diesel	
Mt-Central - 9	Truck Flatbed 4 T Highway	Rebar from Livermore	5	10	1.6	6	1	Mandeville I Shaft to/from Livermore	48	96	Diesel	
Mt-Central - 9	Truck, Flatbed, 10T, Hwy	Cranes to and from Stockton	2	3	0.8	4	2.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mt-Central - 9	Concrete Transit Mix Truck 12cy	Concrete from Bacon Island	5	98	0.3	366	73	Mandeville I Shaft to/from Bacon Island	8	16	Diesel	
Mt-Central - 9	Highway Dump Truck 18 CY	Cement, Aggregate, and Sand from Stockton	5	258	0.8	337	67	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mt-Central - 9	Highway Dump Truck 18 CY	Flyash from Vernalis	5	19	1.7	11	2	Mandeville I Shaft to/from Vernalis	50	100	Diesel	
Mt-Central - 10	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	2	0.8	2	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mt-Central - 11	Truck Flatbed 4 T Highway	Rebar from Livermore	4	2	1.6	1	0.3	Mandeville I Shaft to/from Livermore	48	96	Diesel	
Mt-Central - 11	Concrete Transit Mix Truck 12cy	Concrete from Bacon Island	4	7	0.3	27	7	Mandeville I Shaft to/from Bacon Island	8	16	Diesel	
Mt-Central - 11	Highway Dump Truck 18 CY	Cement, Aggregate, and Sand from Stockton	4	16	0.8	20	5	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mt-Central - 11	Highway Dump Truck 18 CY	Flyash from Vernalis	4	1	1.7	1	0	Mandeville I Shaft to/from Vernalis	50	100	Diesel	
Mt-Central - 12	Truck Flatbed 4 T Highway	Rebar from Livermore	19	3	1.6	2	0.1	Mandeville I Shaft to/from Livermore	48	96	Diesel	
Mt-Central - 13	Concrete Transit Mix Truck 12cy	Concrete from Bacon Island	80	28	0.3	106	1	Mandeville I Shaft to/from Bacon Island	8	16	Diesel	
Mt-Central - 13	Concrete Transit Mix Truck 12cy	Tremie Concrete from Bacon Island Concrete Batch Plant	80	46	0.3	171	2	Mandeville I Shaft to/from Bacon Island Concrete Batch Plant	8	16	Diesel	
Mt-Central - 13	Truck, Flatbed, 10T, Hwy	Crane to Stockton	2	1	0.8	1	0.5	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mt-Central - 13	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	2	0.8	2	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mt-Central - 13	Highway Dump Truck 18 CY	Cement, Aggregate, and Sand from Stockton	80	159	0.8	208	3	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mt-Central - 13	Highway Dump Truck 18 CY	Flyash from Vernalis	80	12	1.7	7	0	Mandeville I Shaft to/from Vernalis	50	100	Diesel	
Mt-Central - 14	Highway Flatbed 10 Ton	Materials from Stockton	7	37.9	0.8	49	7	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mt-Central - 14	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	2	0.8	2	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site												
											Miles On-Site	
Mt-Central - 4	CAT 730 Rear Dump	Dumper	9	14	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		70	Diesel or Hybrid	
Mt-Central - 6	CAT 730 Rear Dump	Dumper	14	193.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		96.7	Diesel or Hybrid	
Mt-Central - 6	Articulated Rear Dump 22 CY/CAT 730	Dumper	54	169.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		848	Diesel or Hybrid	
Mt-Central - 6	Concrete Pump Truck	Off-highway Truck	54	199.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1696	Diesel	
Mt-Central - 8	Trucking Off-highway CAT 730	Dumpers	18	115.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		177.9	Diesel	
Mt-Central - 9	Concrete Pump Truck	Off-highway Truck	5	76	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		380	Diesel	

Employees Required to Mandeville Island - Central Tunnel Shaft
Options 5A, 5B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
MI-Central - 1	General Foreman	14.43	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 1	Dozer Operator	28.86	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 1	Grader Operator	28.86	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 1	Operator G4 Grade Check	14.43	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 1	Scraper Operator	57.72	10		Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-1						
MI-Central - 2	Laborer G2 General	1597.32	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 2	Operator G3a Crane	532.44	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 2	Operator G3 BH Loader	532.44	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 2	Operating Engineer	532.44	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 2	Operator G4 Grade Check	532.44	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 2	Operator G4 Heavy Duty Mechanic	532.44	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 2	Operator G2 Plant Operator	1064.88	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 2	Teamster G1 Hwy	532.44	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 2	Teamster G2 Hwy	532.44	10		Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-2						
MI-Central - 3	Compactor Operator	1900.4	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 3	Dozer Operator	1900.4	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 3	Grade Setter / Checker	1900.4	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 3	Grader Operator	1900.4	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 3	Truck Driver	1900.4	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 3	Water Truck Highway Driver	1900.4	10		Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-3						
MI-Central - 4	Carpenter	333	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 4	Carpenter Foreman	80.7	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 4	Excavator Operator	4.5	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 4	Lead Miner	4.5	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 4	Loader Operator	4.5	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 4	Miner	4.5	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 4	Shifter	4.5	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 4	Truck Driver	13.6	10		Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-4						
MI-Central - 5	General Laborer	8.3	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 5	Carpenter	16.5	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 5	Carpenter Foreman	4.1	10		Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-5						
MI-Central - 6	Crane Oiler	339.2	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	General Foreman	517.5	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	General Laborer	2400.5	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Hyd Crane Operator	339.2	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Iron Worker	1696	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Iron Worker Foreman	339.2	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Lead Miner	169.6	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Loader Operator	347.9	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Mechanic Welder	339.2	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Miner	1356.8	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Shaft Crane Operator	339.2	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Slurry Wall Consultant		24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Truck Driver	193.3	24		Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-6						
MI-Central - 7	Carpenter	25.1	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 7	Carpenter Foreman	6.3	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 7	General Laborer	22.2	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 7	Iron Worker	38.4	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 7	Iron Worker Foreman	9.6	24		Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-7						
MI-Central - 8	Shaft Crane Operator	132.4	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 8	Toplander	132.4	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 8	Crane Oiler	132.4	24		Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-8						
MI-Central - 9	Bottomlander	84	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 9	Diver Contractor		24		Stockton to/from Mandeville I Shaft	23
MI-Central - 9	Hyd Crane Operator	85.2	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 9	Iron Worker	890.4	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 9	Iron Worker Foreman	111.3	24		Stockton to/from Mandeville I Shaft	23

MI-Central - 9	Lead Miner	14.5	24	Stockton to/from Mandeville I Shaft	23
MI-Central - 9	Miner	338.4	24	Stockton to/from Mandeville I Shaft	23
MI-Central - 9	Shifter	125.8	24	Stockton to/from Mandeville I Shaft	23
MI-Central - 9	Toplander	193.1	24	Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-9					
MI-Central - 10	Shifter	75.7	24	Stockton to/from Mandeville I Shaft	23
MI-Central - 10	Lead Miner	75.7	24	Stockton to/from Mandeville I Shaft	23
MI-Central - 10	Miner	605.7	24	Stockton to/from Mandeville I Shaft	23
MI-Central - 10	Hyd Crane Operator	75.7	24	Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-10					
MI-Central - 11	Crane Oiler	26.7	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Electrician	6.2	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Iron Worker	163.5	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Iron Worker Foreman	20.4	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Lead Miner	6.2	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Mechanic Welder	6.2	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Miner	90.6	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Shaft Crane Operator	26.7	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Shifter	26.7	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Toplander	26.7	10	Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-11					
MI-Central - 12	Bottomlander	89.9	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 12	Crane Oiler	89.9	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 12	Iron Worker	718.8	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 12	Iron Worker Foreman	89.9	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 12	Shaft Crane Operator	89.9	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 12	Toplander	89.9	10	Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-12					
MI-Central - 13	Bottomlander	77	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Concrete Pump Operator	48.7	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Crane Oiler	135	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Electrician	200.5	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Hyd Crane Operator	200.5	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Lead Miner	530	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Mechanic / Welder	636.4	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Miner	3544	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Shaft Crane Operator	174	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Shifter	530	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Toplander	174	10	Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-13					
MI-Central - 14	Bullgang Laborer	75.1	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 14	Mechanic / Welder	37.9	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 14	Hyd Crane Operator	75.7	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 14	Flat Truck Driver	37.9	10	Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-14					

Marine Inventory for Mandeville Island - Central Tunnel Shaft
Options 5A, 5B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Mandeville Island - Central Tunnel Shaft
Options 5A, 5B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Mandeville Island - Central Tunnel Shaft
Options 5A, 5B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Mandeville Island - Central Tunnel Shaft
Options 5A, 5B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
MI-Central - 1	14	15	1	7274	485						
MI-Central - 3		261				83616	320				
MI-Central - 4		9		297	33						
MI-Central - 5		1									
MI-Central - 6		54		4523	84						
MI-Central - 7		5									
MI-Central - 8		28		14572	520						

**Demolition Assumptions for Mandeville Island - Central Tunnel Shaft
Options 5A, 5B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Bacon Island - Central Tunnel Shaft						
Options 5A, 5B						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Concrete Batch Plant	BI-Central - 1	4/30/2031	5/20/1931	15	5	10
Clear and Grub	BI-Central - 2	5/14/2031	5/20/2031	5	5	10
Ground Improvement	BI-Central - 3	5/21/2031	11/11/2031	125	5	10
Raise Shaft Pad	BI-Central - 4	11/12/2031	9/2/2032	190	5	10
Excavate, Set Strips, & Place Guide Wall	BI-Central - 5	9/3/2032	9/20/2032	14	5	10
Place Guide Walls Concrete	BI-Central - 6	9/21/2032	9/22/2032	1	1	10
Excavate Slurry Wall & Place Concrete & Rebar	BI-Central - 7	9/23/2032	11/1/2032	40	7	24
Slurry Wall including Strip Forms and Place Rebar & Top Beam	BI-Central - 8	11/2/2032	12/14/2032	43	7	24
Excavate Shaft	BI-Central - 9	12/15/2032	1/27/2033	47	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	BI-Central - 10	1/28/2033	2/10/2033	14	7	24
Dewater Shaft	BI-Central - 11	2/11/2033	2/17/2033	7	7	24
Place TBM Cradle Rebar and Cradle Pour	BI-Central - 12	2/18/2033	2/25/2033	6	5	10
Breakout Slurry Wall for TBM	BI-Central - 13	2/28/2033	3/24/2033	19	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	BI-Central - 14	3/25/2033	5/19/2033	40	5	10
Place Shaft Cover	BI-Central - 15	2/14/2035	2/21/2035	5	5	10
Complete Shaft Maintenance	BI-Central - 16	3/23/2034	4/21/2034	22	5	10
Batch Plant Operations	BI-Central - 17	5/20/2031	4/11/2033	500	5	10
Batch Plant Demobilization	BI-Central - 18	4/28/2033	5/4/2033	5	5	10
Total Site Acres	15					

Offroad Equipment (Fossil Fuel) Inventory for Bacon Island - Central Tunnel Shaft
Options SA, 5B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
BI-Central - 1	Air Compressor 185 cfm	Air Compressor	400	15	27	Diesel Tier 4	49	0.48		
BI-Central - 1	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lift	200	15	13	Diesel	75	0.31		
BI-Central - 1	Grove RT Crane 80T, 275hp	Crane	400	15	27	Diesel	275	0.29		
BI-Central - 1	Boom Truck, 12.5 Tn Boom	Crane	200	15	13	Diesel or Hybrid	100	0.29		
BI-Central - 2	CAT D8 Dozer	Crawler Tractor	46.44	5	9	Diesel Tier 4 or Hybrid Diesel	179	0.43		
BI-Central - 2	CAT Grader 16H - 16' Blade	Grader	46.44	5	9	Diesel	285	0.41		
BI-Central - 2	623G Scraper Elevate 21 CY	Scaper	92.88	5	19	Diesel	359	0.48		
BI-Central - 3	Air Compressor 375 CFM	Air Compressor	1000	125	8	Diesel Tier 4	122	0.48		
BI-Central - 3	Grove RT Crane 30T	Crane	1000	125	8	Diesel	160	0.29		
BI-Central - 3	DMM Deep Soil Mixer	Bore Drill Rig	1000	125	8	Diesel	808	0.5		
BI-Central - 3	DMM Grout Mlx Plant	Other Industrial Equipmen	1000	125	8	Diesel	500	0.34		
BI-Central - 3	Portable 90 Kw Diesel	Generators	125	125	1	Diesel Tier 4	158	0.74		
BI-Central - 3	Case 590 SupN Loader	Rubber Tired Loaders	1000	125	8	Diesel	110	0.36		
BI-Central - 3	Water Pump 4" Electric	Pumps	2207	125	18	Diesel	10	0.74		
BI-Central - 4	CAT CB-634D Vibratory 84"	Rollers	2566	190	14	Diesel	145	0.38		
BI-Central - 4	CAT Grader 16H	Graders	2566	190	14	Diesel	285	0.41		
BI-Central - 4	CAT D8 Dozer	Crawler Tractor	2566	190	14	Diesel	328	0.43		
BI-Central - 5	CAT Hyd Excavator 1CY	Excavator	4.5	14	0	Diesel	138	0.38		
BI-Central - 5	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	4.5	14	0	Diesel or Hybrid	130	0.36		
BI-Central - 7	1600 CFM Compressor Diesel	Air Compressor	169.6	40	4	Diesel Tier 4	540	0.48		
BI-Central - 7	Hydraulic 55 Ton Crane	Crane	339.2	40	8	Diesel	350	0.29		
BI-Central - 7	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	169.6	40	4	Diesel or Hybrid	130	0.36		
BI-Central - 7	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	169.6	40	4	Diesel	8	0.56		
BI-Central - 7	Slurry Wall Techniwell	Pumps	169.6	40	4	Diesel	500	0.74		
BI-Central - 7	Manitowoc 777 200 Ton Crane	Crane	339.2	40	8	Diesel	760	0.29		
BI-Central - 8	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	178.3	43	4	Diesel or Hybrid	130	0.36		
BI-Central - 8	250 CFM Compressor Diesel	Air Compressor	2.5	43	0.1	Diesel Tier 3	75	0.48		
BI-Central - 8	CAT Hyd Excavator 1CY	Excavator	356.6	43	8.3	Diesel	138	0.38		
BI-Central - 9	Manitowoc 777 200 Ton Crane	Crane	129	47	3	Diesel	760	0.29		
BI-Central - 10	Manitowoc 777 200 Ton Crane	Crane	84	14	6	Diesel	760	0.29		
BI-Central - 10	Hydraulic 40 Ton Crane	Crane	27.3	14	2	Diesel	300	0.29		
BI-Central - 10	Hydraulic 25 Ton Crane	Crane	57.9	14	4	Diesel	100	0.29		
BI-Central - 11	Dewater Pump 6"	Pump	302.9	7	43	Diesel	50	0.74		
BI-Central - 11	150 KW Diesel Generator	Generator	75.7	7	11	Diesel Tier 4	183	0.74		
BI-Central - 11	Hydraulic 15 Ton Crane	Crane	75.7	7	11	Diesel	100	0.29		
BI-Central - 12	Manitowoc 777 200 Ton Crane	Crane	26.9	6	4	Diesel	760	0.29		
BI-Central - 12	250 CFM Compressor Diesel	Air Compressor	6.2	6	1	Diesel Tier 3	75	0.48		
BI-Central - 12	Trailer Conc Pump 100 CY HR	Pump	6.2	6	1	Diesel	200	0.74		
BI-Central - 13	250 CFM Compressor Diesel	Air Compressor	178.3	19	9	Diesel Tier 3	75	0.48		
BI-Central - 13	Manitowoc 777 200 Ton Crane	Crane	178.3	19	9	Diesel	760	0.29		
BI-Central - 14	250 CFM Compressor Diesel	Air Compressor	270.3	40	7	Diesel Tier 3	75	0.48		
BI-Central - 14	Trailer Conc Pump 100 CY HR	Pump	135.9	40	3	Diesel	200	0.74		
BI-Central - 14	Manitowoc 777 200 Ton Crane	Crane	77.2	40	2	Diesel	760	0.29		
BI-Central - 14	Manitowoc 999-275 Ton Crane	Crane	193.1	40	5	Diesel	900	0.29		
BI-Central - 15	Hydraulic 9 Ton Crane	Crane	30.3	22	1	Diesel	85	0.29		
BI-Central - 15	Hydraulic 40 Ton Crane	Crane	30.3	22	1	Diesel	300	0.29		
BI-Central - 15	CAT Forklift 5,500 LB	Aerial Lift	30.3	22	1	Diesel	63	0.31		
BI-Central - 18	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lift	80	5	16	Diesel	75	0.31		
BI-Central - 18	Grove RT Crane 80T, 275hp	Crane	80	5	16	Diesel	275	0.29		
BI-Central - 18	Boom Truck, 12.5 Tn Boom	Crane	40	5	8	Diesel or Hybrid	100	0.29		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Bacon Island - Central Tunnel Shaft
Options 5A, 5B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
BI-Central - 1	Electric Welder 400 AMP	400	15	15	400
BI-Central - 18	Electric Welder 400 AMP	80	5	15	240

Vehicle Inventory for Bacon Island - Central Tunnel Shaft
Options SA, SB

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
Bi-Central - 1	Pickup, 1/2T, 2wd	Materials from Stockton	15	400	0.8	522	35	Bacon I Shaft to/from Stockton	23	46	Hybrid Gasoline	
Bi-Central - 1	Truck Flatbed 4 T Highway	Materials from Stockton	15	110	0.8	144	10	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 1	Truck Flatbed 4 T Highway	Batch Plant from Stockton	15	20	0.8	20	1	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 1	Truck, Flatbed, 10T, Hwy	Two Cranes to and from Stockton	2	2	0.8	2	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 2	Truck, Flatbed, 10T, Hwy	Scraper to and from Stockton	2	2	0.8	2	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 2	Truck, Flatbed, 10T, Hwy	Dozer and Grader from Stockton	1	2	0.8	2	2.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 3	Pickup 1/2T 2 WD	Materials from Stockton	125	2207	0.8	2879	23	Bacon I Shaft to/from Stockton	23	46	Hybrid Gasoline	
Bi-Central - 3	Truck Flatbed 4 T Highway	Materials from Stockton	125	2207	0.8	2879	23	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 3	Mechanic Truck	Materials from Stockton	125	2207	0.8	2879	23	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 3	Truck, Flatbed, 10T, Hwy	Crane, Trencher, Loader, & Other Equipment to and from Stockton	2	1	0.8	6	3.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 3	Highway Dump Truck 18 CY	Ground Treatment Cement from Stockton	125	423	0.8	552	4	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 4	Highway Dump Truck 18 CY	Materials from Stockton	190	2566	0.8	3347	18	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 4	Truck End Dump 16-20cy Hwy	RTM Material in Covered Trucks from Two Cities Concrete	190	14052	1.9	7528	40	Bacon I Shaft to/from Stockton	56	112	Diesel	
Bi-Central - 4	Truck, Flatbed, 10T, Hwy	Roller to and from Stockton	2	2	0.8	2	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 4	Truck, Flatbed, 10T, Hwy	Dozer and Crawler Tractor to Stockton	1	2	0.8	2	2.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 5	Truck, Flatbed, 10T, Hwy	Excavator, Crane and Loader from Stockton	1	2	0.8	3	3.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 5	Truck Flatbed 4 T Highway	Rebar from Livermore	14	1	1.5	1	0	Bacon I Shaft to/from Livermore	44	88	Diesel	
Bi-Central - 5	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement from Bacon Island	14	0.8	0.0	23	2	Bacon I Shaft from Bacon I Concrete Batch Plant	1	2	Diesel	
Bi-Central - 7	Truck Flatbed 4 T Highway	Rebar from Livermore	40	29	1.5	20	1	Bacon I Shaft to/from Livermore	44	88	Diesel	
Bi-Central - 7	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	1	0.8	1	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 7	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	2	0.8	2	2.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 7	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	40	331	2.2	148	4	Bacon I Shaft to/from Sacramento	67	134	Diesel	
Bi-Central - 7	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement from Bacon Island	40	20.1	0.0	604	15	Bacon I Shaft from Bacon I Concrete Batch Plant	1	2	Diesel	
Bi-Central - 7	Highway Dump Truck 18 CY	Cement, Aggregate, and Sand from Stockton	40	268	0.8	350	9	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 7	Highway Dump Truck 18 CY	Flyash from Vernalis	40	16	1.4	12	0	Bacon I Shaft to/from Vernalis	42	84	Diesel	
Bi-Central - 8	Truck, Flatbed, 10T, Hwy	Excavator and Loader to Stockton	1	2	0.8	2	2.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 8	Truck Flatbed 4 T Highway	Rebar from Livermore	43	10	1.5	7	0	Bacon I Shaft to/from Livermore	44	88	Diesel	
Bi-Central - 8	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement from Bacon Island	43	0.3	0.0	9	0	Bacon I Shaft from Bacon I Concrete Batch Plant	1	2	Diesel	
Bi-Central - 8	Highway Dump Truck 18 CY	Cement, Aggregate, and Sand from Stockton	43	5	0.8	7	0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 8	Highway Dump Truck 18 CY	Flyash from Vernalis	43	0	1.4	0	0	Bacon I Shaft to/from Vernalis	42	84	Diesel	
Bi-Central - 10	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	1	0.8	1	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 10	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	1	0.8	1	0.5	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 10	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement from Bacon Island	14	12.2	0.0	366	26	Bacon I Shaft from Bacon I Concrete Batch Plant	1	2	Diesel	
Bi-Central - 10	Highway Dump Truck 18 CY	Cement, Aggregate, and Sand from Stockton	14	211	0.8	275	20	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 10	Highway Dump Truck 18 CY	Flyash from Vernalis	14	13	1.4	9	1	Bacon I Shaft to/from Vernalis	42	84	Diesel	
Bi-Central - 11	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	2	0.8	2	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 12	Truck Flatbed 4 T Highway	Rebar from Livermore	6	1	1.5	1	0.2	Bacon I Shaft to/from Livermore	44	88	Diesel	
Bi-Central - 12	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement from Bacon Island	6	0.4	0.0	12	2	Bacon I Shaft from Bacon I Concrete Batch Plant	1	2	Diesel	
Bi-Central - 12	Highway Dump Truck 18 CY	Cement, Aggregate, and Sand from Stockton	6	18	0.8	23	4	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 12	Highway Dump Truck 18 CY	Flyash from Vernalis	6	1	1.4	1	0	Bacon I Shaft to/from Vernalis	42	84	Diesel	
Bi-Central - 13	Truck Flatbed 4 T Highway	Rebar from Livermore	19	4	1.5	3	0.2	Bacon I Shaft to/from Livermore	44	88	Diesel	
Bi-Central - 14	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	1	0.8	1	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 14	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	2	0.8	2	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 14	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement from Bacon Island	40	7.0	0.0	210	5	Bacon I Shaft from Bacon I Concrete Batch Plant	1	2	Diesel	
Bi-Central - 14	Highway Dump Truck 18 CY	Cement, Aggregate, and Sand from Stockton	40	120	0.8	156	4	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 14	Highway Dump Truck 18 CY	Flyash from Vernalis	40	7	1.4	5	0	Bacon I Shaft to/from Vernalis	42	84	Diesel	
Bi-Central - 15	Highway Flatbed 10 Ton	Materials from Stockton	22	30.3	0.8	40	2	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 15	Truck, Flatbed, 10T, Hwy	Two Cranes to and from Stockton	2	3	0.8	4	2.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 15	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	1	0.8	1	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 16	Pickup, 1/2T, 2wd	Materials from Stockton	500	2883	0.8	3760	8	Bacon I Shaft to/from Stockton	23	46	Hybrid Gasoline	
Bi-Central - 16	Truck Flatbed 4 T Highway	Materials from Stockton	500	107	0.8	139	0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 16	Highway Dump Truck 18 CY	Cement from Stockton	500	387	0.8	505	1	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 16	Highway Dump Truck 18 CY	Concrete Aggregate from Stockton	500	724	0.8	944	2	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 16	Highway Dump Truck 18 CY	Concrete Sand from Stockton	500	577	0.8	753	2	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 16	Highway Dump Truck 18 CY	Flyash from Vernalis	500	108	1.4	77	0	Bacon I Shaft to/from Vernalis	42	84	Diesel	
Bi-Central - 17	Truck, Flatbed, 10T, Hwy	Two Cranes and Aerial Lift to and from Stockton	2	5	0.8	6	3.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site												
Bi-Central - 5	CAT 730 Rear Dump	Dumper	14	14	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		70	Diesel or Hybrid	
Bi-Central - 7	CAT 730 Rear Dump	Dumper	40	193.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		967	Diesel or Hybrid	
Bi-Central - 7	Articulated Rear Dump 22 CY CAT 730	Dumper	40	169.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		848	Diesel or Hybrid	
Bi-Central - 7	Concrete Pump Truck	Off Highway Truck	40	339.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1696	Diesel	
Bi-Central - 9	Trucking Off Highway CAT 730	Dumper	47	1125	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		5625	Diesel	
Bi-Central - 10	Concrete Pump Truck	Off Highway Truck	14	76	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		380	Diesel	

Employees Required to Bacon Island - Central Tunnel Shaft
Options 5A, 5B

Code	Employee Type	Hours	# WorkDay		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
BI-Central - 1	Carpenter Apprentice	400	10		Stockton to/from Bacon I Shaft	23
BI-Central - 1	Carpenter Foreman	400	10		Stockton to/from Bacon I Shaft	23
BI-Central - 1	Millwright	400	10		Stockton to/from Bacon I Shaft	23
BI-Central - 1	Electrical Foreman	200	10		Stockton to/from Bacon I Shaft	23
BI-Central - 1	Electrician Journeyman	400	10		Stockton to/from Bacon I Shaft	23
	Iron Worker Journeyman					
BI-Central - 1	Rebar/Struct	800	10		Stockton to/from Bacon I Shaft	23
BI-Central - 1	Laborer G2 General	800	10		Stockton to/from Bacon I Shaft	23
BI-Central - 1	Operator G2a Cranes 45 to 100 t	400	10		Stockton to/from Bacon I Shaft	23
BI-Central - 1	Teamster G3 Boom Truck	200	10		Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-1						
BI-Central - 2	General Foreman	23.22	10		Stockton to/from Bacon I Shaft	23
BI-Central - 2	Dozer Operator	46.44	10		Stockton to/from Bacon I Shaft	23
BI-Central - 2	Grader Operator	46.44	10		Stockton to/from Bacon I Shaft	23
BI-Central - 2	Operator G4 Grade Check	23.22	10		Stockton to/from Bacon I Shaft	23
BI-Central - 2	Scraper Operator	92.88	10		Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-2						
BI-Central - 3	Laborer G2 General	6621	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Operator G3a Crane	2207	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Operator G3 BH Loader	2207	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Foreman Operator	112	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Hydraulic Crane Operator	112	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Iron Worker	672	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Iron Worker Foreman	112	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Operating Engineer	2207	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Operator G4 Grade Check	2207	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Operator G4 Heavy Duty Mechanic	2207	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Operator G2 Plant Operator	4414	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Teamster G1 Hwy	2207	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Teamster G2 Hwy	2207	10		Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-3						
BI-Central - 4	Compactor Operator	2566	10		Stockton to/from Bacon I Shaft	23
BI-Central - 4	Dozer Operator	2566	10		Stockton to/from Bacon I Shaft	23
BI-Central - 4	Grade Setter / Checker	2566	10		Stockton to/from Bacon I Shaft	23
BI-Central - 4	Grader Operator	2566	10		Stockton to/from Bacon I Shaft	23
BI-Central - 4	Truck Driver	2566	10		Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-4						
BI-Central - 5	Shifter	4.5	10		Stockton to/from Bacon I Shaft	23
BI-Central - 5	Lead Miner	4.5	10		Stockton to/from Bacon I Shaft	23
BI-Central - 5	Miner	4.5	10		Stockton to/from Bacon I Shaft	23
BI-Central - 5	Loader Operator	4.5	10		Stockton to/from Bacon I Shaft	23
BI-Central - 5	Excavator Operator	4.5	10		Stockton to/from Bacon I Shaft	23
BI-Central - 5	Truck Driver	13.4	10		Stockton to/from Bacon I Shaft	23
BI-Central - 5	Carpenter	267.6	10		Stockton to/from Bacon I Shaft	23
BI-Central - 5	Carpenter Foreman	66.9	10		Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-5						
BI-Central - 6	General Laborer	8.3	10		Stockton to/from Bacon I Shaft	23
BI-Central - 6	Carpenter	13.8	10		Stockton to/from Bacon I Shaft	23
BI-Central - 6	Carpenter Foreman	18	10		Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-6						
BI-Central - 7	Crane Oiler	339.2	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	General Foreman	339.2	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	General Laborer	1865.6	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Hyd Crane Operator	339.2	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Iron Worker	1696	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Iron Worker Foreman	339.2	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Lead Miner	169.6	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Loader Operator	169.6	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Mechanic Welder	339.2	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Miner	1356.8	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Shaft Crane Operator	339.2	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Shifter	508.8	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Truck Driver	193.3	24		Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-7						
BI-Central - 8	Loader Operator	178.3	24		Stockton to/from Bacon I Shaft	23
BI-Central - 8	Excavator Operator	178.3	24		Stockton to/from Bacon I Shaft	23

BI-Central - 8	General Laborer	557.1	24	Stockton to/from Bacon I Shaft	23
BI-Central - 8	General Foreman	178.3	24	Stockton to/from Bacon I Shaft	23
BI-Central - 8	Carpenter	25.1	24	Stockton to/from Bacon I Shaft	23
BI-Central - 8	Carpenter Foreman	6.3	24	Stockton to/from Bacon I Shaft	23
BI-Central - 8	Iron Worker Foreman	9.6	24	Stockton to/from Bacon I Shaft	23
BI-Central - 8	Iron Worker	38.4	24	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-8					
BI-Central - 9	Shaft Crane Operator	129	24	Stockton to/from Bacon I Shaft	23
BI-Central - 9	Toplander	129	24	Stockton to/from Bacon I Shaft	23
BI-Central - 9	Crane Oiler	129	24	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-9					
BI-Central - 10	Bottomlander	84	24	Stockton to/from Bacon I Shaft	23
BI-Central - 10	Shaft Crane Operator	84	24	Stockton to/from Bacon I Shaft	23
BI-Central - 10	Hyd Crane Operator	84	24	Stockton to/from Bacon I Shaft	23
BI-Central - 10	Iron Worker	890.4	24	Stockton to/from Bacon I Shaft	23
BI-Central - 10	Iron Worker Foreman	111.3	24	Stockton to/from Bacon I Shaft	23
BI-Central - 10	Lead Miner	14.5	24	Stockton to/from Bacon I Shaft	23
BI-Central - 10	Miner	338.4	24	Stockton to/from Bacon I Shaft	23
BI-Central - 10	Shifter	41.7	24	Stockton to/from Bacon I Shaft	23
BI-Central - 10	Toplander	193.1	24	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-10					
BI-Central - 11	Shifter	75.7	24	Stockton to/from Bacon I Shaft	23
BI-Central - 11	Lead Miner	75.7	24	Stockton to/from Bacon I Shaft	23
BI-Central - 11	Miner	605.7	24	Stockton to/from Bacon I Shaft	23
BI-Central - 11	Hyd Crane Operator	75.7	24	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-11					
BI-Central - 12	Crane Oiler	26.9	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Electrician	6.2	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Iron Worker	165.6	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Iron Worker Foreman	20.7	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Lead Miner	6.2	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Mechanic Welder	6.2	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Miner	91.1	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Shaft Crane Operator	26.9	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Shifter	26.9	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Toplander	26.9	10	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-12					
BI-Central - 13	Bottomlander	178.3	10	Stockton to/from Bacon I Shaft	23
BI-Central - 13	Crane Oiler	178.3	10	Stockton to/from Bacon I Shaft	23
BI-Central - 13	Iron Worker	1426.5	10	Stockton to/from Bacon I Shaft	23
BI-Central - 13	Iron Worker Foreman	178.3	10	Stockton to/from Bacon I Shaft	23
BI-Central - 13	Shaft Crane Operator	178.3	10	Stockton to/from Bacon I Shaft	23
BI-Central - 13	Toplander	178.3	10	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-13					
BI-Central - 14	Bottomlander	77	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Concrete Pump Operator	96.5	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Crane Oiler	231	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Foreman Operator	84	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Hyd Crane Operator	84	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Iron Worker	504	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Iron Worker Foreman	84	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Lead Miner	270.3	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Mechanic / Welder	173.8	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Miner	2086.7	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Shaft Crane Operator	270	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Shifter	270	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Toplander	270	10	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-14					
BI-Central - 15	Bullgang Foreman	30.3	10	Stockton to/from Bacon I Shaft	23
BI-Central - 15	Bullgang Laborer	60.6	10	Stockton to/from Bacon I Shaft	23
BI-Central - 15	Mechanic / Welder	30.3	10	Stockton to/from Bacon I Shaft	23
BI-Central - 15	Hyd Crane Operator	60.6	10	Stockton to/from Bacon I Shaft	23
BI-Central - 15	Flat Truck Driver	30.3	10	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-15					
BI-Central - 16	Shifter	1200	10	Stockton to/from Bacon I Shaft	23
BI-Central - 16	Lead Miner	1200	10	Stockton to/from Bacon I Shaft	23
BI-Central - 16	Miner	7200	10	Stockton to/from Bacon I Shaft	23
BI-Central - 16	Mechanic / Welder	1200	10	Stockton to/from Bacon I Shaft	23
BI-Central - 16	Electrician	1200	10	Stockton to/from Bacon I Shaft	23
BI-Central - 16	TBM Operator	2400	10	Stockton to/from Bacon I Shaft	23
BI-Central - 16	Conveyor Belt Man	1200	10	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-16					
BI-Central - 17	Heavy Duty Mechanic Welder	112	10	Stockton to/from Bacon I Shaft	23

BI-Central - 17	Foreman Operator	112	10	Stockton to/from Bacon I Shaft	23
BI-Central - 17	Hyd Crane Operator	112	10	Stockton to/from Bacon I Shaft	23
BI-Central - 17	Iron Worker Foreman	112	10	Stockton to/from Bacon I Shaft	23
BI-Central - 17	Iron Worker	672	10	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-17					
BI-Central - 18	Heavy Duty Mechanic Welder	84	10	Stockton to/from Bacon I Shaft	23
BI-Central - 18	Foreman Operator	84	10	Stockton to/from Bacon I Shaft	23
BI-Central - 18	Hyd Crane Operator	84	10	Stockton to/from Bacon I Shaft	23
BI-Central - 18	Iron Worker Foreman	84	10	Stockton to/from Bacon I Shaft	23
BI-Central - 18	Iron Worker	504	10	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-18					

TOTAL BI-Central-17

Marine Inventory for Bacon Island - Central Tunnel Shaft
Options 5A, 5B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Bacon Island - Central Tunnel Shaft
Options 5A, 5B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Bacon Island - Central Tunnel Shaft
Options 5A, 5B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Bacon Island - Central Tunnel Shaft
Options 5A, 5B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
BI-Central - 2	15	5	3	11704	2341						
BI-Central - 4		190				112911	594				
BI-Central - 5		14		297	21						
BI-Central - 6		1									
BI-Central - 7		40		4253	106						
BI-Central - 8		43									
BI-Central - 9		47		14196	302						

Demolition Assumptions for Bacon Island - Central Tunnel Shaft
Options 5A, 5B

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Bethany Park and Ride

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Excavation	BethanyPR-1	10/29/2026	11/3/2026	5	5	10
Culvert Pipe	BethanyPR-2	11/4/2026	11/4/2026	1	1	10
Subdrain System	BethanyPR-3	11/5/2026	11/5/2026	1	1	10
Road Base	BethanyPR-4	11/6/2026	11/9/2026	4	4	10
Asphalt Paving	BethanyPR-5	11/10/2026	11/11/2026	2	2	10
Electrical, Striping, and K-Rail Installation	BethanyPR-6	11/12/2026	11/12/2026	1	1	10

Acres

2.6

Construction Schedule for Byron Park and Ride

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	BPR -1	8/18/2026	9/4/2026	13	5	10
Embankment	BPR -2	9/7/2026	9/8/2026	2	2	10
Culvert Pipe	BPR -3	9/9/2026	9/14/2026	3	3	10
Subdrain System	BPR -4	9/15/2026	9/21/2026	5	5	10
Road Base	BPR -5	9/22/2026	10/8/2026	12	5	10
Asphalt Paving	BPR -6	10/9/2026	10/23/2026	10	5	10
Electrical, Striping, and K-Rail Installation	BPR -7	10/26/2026	10/29/2026	3	3	10

Acres

2.91

Construction Schedule for Bruns Complex Rds - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	BrCmplxRd-C&E Access -1	3/12/2027	3/15/2027	4	4	10
Embankment	BrCmplxRd-C&E Access -2	3/16/2027	3/16/2027	1	1	10
Culvert Pipe	BrCmplxRd-C&E Access -3	3/17/2027	3/17/2027	1	1	10
Bridge over Byron Highway	BrCmplxRd-C&E Access -4	3/17/2027	6/1/2027	54	5	10
Subdrain System	BrCmplxRd-C&E Access -5	3/18/2027	3/22/2027	5	5	10
Road Base	BrCmplxRd-C&E Access -6	3/23/2027	3/24/2027	2	2	10
Asphalt Paving	BrCmplxRd-C&E Access -7	6/2/2027	6/3/2027	2	2	10
KRail and Signs	BrCmplxRd-C&E Access -8	6/4/2027	6/4/2027	1	1	10
Intermediate Overlay	BrCmplxRd-C&E Access -9	5/13/2030	5/14/2030	2	2	10
Final Overlay	BrCmplxRd-C&E Access -10	6/29/2037	7/1/2037	3	3	10

Acres

5.3

Construction Schedule for Discovery Bay Rd Extension - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	DBExt-C&E Access -1	11/10/2026	11/13/2026	4	4	10
Embankment	DBExt-C&E Access -2	11/16/2026	11/20/2026	5	5	10
Culvert Pipe	DBExt-C&E Access -3	11/23/2026	11/24/2026	2	2	10
Subdrain System	DBExt-C&E Access -4	11/25/2026	12/7/2026	10	5	10
Road Base	DBExt-C&E Access -5	12/8/2026	12/22/2026	11	5	10
Asphalt Paving	DBExt-C&E Access -6	12/23/2026	12/30/2026	6	5	10
KRail and Signs	DBExt-C&E Access -7	12/31/2026	12/31/2026	1	1	10
Intermediate Overlay	DBExt-C&E Access -8	5/7/2030	5/8/2030	2	2	10
Final Overlay	DBExt-C&E Access -9	6/8/2037	6/10/2037	3	3	10

Acres

4.6

Construction Schedule for Western Farm Rd - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	WFRd-C&E Access -1	10/9/2026	10/14/2026	5	5	10
Embankment	WFRd-C&E Access -2	10/15/2026	10/19/2026	5	5	10
Culvert Pipe	WFRd-C&E Access -3	10/20/2026	10/20/2026	1	1	10
Subdrain System	WFRd-C&E Access -4	10/21/2026	10/27/2026	5	5	10
Road Base	WFRd-C&E Access -5	10/28/2026	11/9/2026	11	5	10
Asphalt Paving	WFRd-C&E Access -6	11/10/2026	11/17/2026	6	5	10
KRail and Signs	WFRd-C&E Access -7	11/18/2026	11/18/2026	1	1	10
Intermediate Overlay	WFRd-C&E Access -8	5/20/2030	5/21/2030	2	2	10
Final Overlay	WFRd-C&E Access -9	6/10/2037	6/12/2037	3	3	10

Acres

2

Construction Schedule for Southern Complex on Byron Tract - Central						
Option 5						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Rail Features in Northern Southern Forebay	SF - Central - 1	1/5/2026	10/22/2026	208	5	10
Rail Features in the Southern portion of Southern Forebay	SF - Central - 2	1/5/2026	4/2/2027	324	5	10
Rail Yard	SF - Central - 3	3/30/2026	3/19/2027	253	5	10
Byron Highway Interchange	SF - Central - 4	4/27/2026	3/11/2027	318	5	10
Pumping Plant Initial Site Work	SF - Central - 5	7/9/2027	8/6/2027	21	5	10
Pumping Plant Ground Improvement	SF - Central - 6	7/23/2027	3/14/2028	169	5	10
Pumping Plant Construction Phase 1	SF - Central - 7	3/31/2027	2/27/2029	500	5	10
Pumping Plant Contractor Operations	SF - Central - 8	7/9/2027	7/30/2032	1321	5	10
Pumping Plant Substation	SF - Central - 9	6/26/2029	4/3/2030	201	5	10
Pumping Plant Structure Phase 1	SF - Central - 10	3/17/2027	7/13/2027	85	5	10
Pumping Plant Structure Phase 2	SF - Central - 11	6/26/2029	8/9/2030	293	5	10
Pumping Plant Structure Phase 3	SF - Central - 12	5/8/2030	2/11/2033	721	5	10
Pumping Plant Wet Well	SF - Central - 13	8/12/2030	8/24/2033	792	5	10
Pumping Plant Outlet Structure	SF - Central - 14	10/7/2031	3/30/2034	908	5	10
Pumping Plant Dissipation Slab Phase 1A	SF - Central - 15A	5/5/2031	5/7/2032	263	5	10
Pumping Plant Dissipation Slab Phase 1B	SF - Central - 15B	1/2/2034	5/15/2035	142	5	10
Pumping Plant Electrical Building	SF - Central - 16	1/2/2034	7/25/2034	147	5	10
Pumping Plant Generator Building	SF - Central - 17	7/25/2034	9/5/2034	31	5	10
Pumping Plant HVAC	SF - Central - 18	8/14/2034	9/20/2034	28	5	10
Pumping Plant Finish Site Work	SF - Central - 19	7/25/2034	10/16/2035	317	5	10
Pumping Plant Finish Work Phase 1	SF - Central - 20	9/10/2032	4/17/2035	679	5	10
Pumping Plant Finish Work Phase 2	SF - Central - 21	4/18/2031	8/29/2034	878	5	10
Pumping Plant Pumping Equipment	SF - Central - 22	3/8/2035	3/18/2036	269	5	10
Southern Forebay Site Preparation	SF - Central - 23	5/26/2027	3/2/2028	222	5	10
Southern Forebay Clear and Grub	SF - Central - 24	7/23/2027	4/4/2028	183	5	10
Southern Forebay Foundations	SF - Central - 25	12/10/2027	6/12/2029	393	5	10
Southern Forebay Embankments	SF - Central - 26	10/30/2029	1/9/2035	1356	5	10
Southern Forebay Soil Materials Handling	SF - Central - 27	12/10/2027	1/14/2028	26	5	10
Southern Forebay Temporary Facilities During Construction	SF - Central - 28	5/6/2027	1/25/2036	2276	5	10
Southern Forebay Emnbankment Finish Work	SF - Central - 29	1/9/2035	9/26/2035	187	5	10
Southern Forebay Spillway	SF - Central - 30	1/3/2034	9/19/2034	186	5	10
Southern Forebay Outlet Structure	SF - Central - 31	8/2/2033	1/25/2036	676	5	10
Southern Forebay Inlet Structure	SF - Central - 32	9/19/2034	1/31/2035	97	5	10
Tunnel Launch Shaft Site Preparation for Shafts from Southern Forebay to South Delta Conveyance	SF - Central - 33	3/21/2029	3/14/2030	255	5	10
Raise Tunnel Eastern Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5E)	SF - Central - 34	3/21/2029	1/30/2032	747	5	10
Finalize Tunnel Eastern Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5E)	SF - Central - 35	8/16/2030	12/17/2030	90	5	10
Construct Tunnel from Eastern Shaft at Southern Forebay Outlet to South Delta Conveyance (called Shaft 5E)	SF - Central - 36	12/18/2030	12/19/2031	313	6	20
Finish Work for Tunnel Eastern Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5E)	SF - Central - 37	12/19/2031	2/9/2032	38	5	10
Raise Tunnel Western Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5W)	SF - Central - 38	11/28/2029	5/26/2033	391	5	10
Finalize Tunnel Western Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5W)	SF - Central - 39	3/28/2031	12/30/2032	460	5	10
Construct Tunnel from Western Shaft at Southern Forebay Outlet to South Delta Conveyance (called Shaft 5W)	SF - Central - 40	3/15/2032	4/21/2033	345	6	20
Finish Work for Tunnel Western Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5W)	SF - Central - 41	4/21/2033	6/10/2033	37	5	10
Tunnel Launch Shaft Site Preparation for Shaft at Northern portion of Southern Forebay	SF - Central - 42	4/17/2029	4/16/2035	1566	5	10
Raise Tunnel Shaft at Northern portion of Southern Forebay	SF - Central - 43	1/29/2030	12/27/2030	239	5	10
Finalize Tunnel Shaft at Northern portion of Southern Forebay	SF - Central - 44	12/27/2030	5/16/2031	101	5	10
Tunnel Launch Working Shaft Site Preparation at Northern portion of Southern Forebay	SF - Central - 45	6/12/2029	1/29/2030	166	5	10
Raise Tunnel Working Shaft at Northern portion of Southern Forebay	SF - Central - 46	9/11/2029	5/22/2031	442	5	10
Finalize Tunnel Working Shaft at Northern portion of Southern Forebay	SF - Central - 47	3/20/2031	8/13/2031	106	5	10
Construct Tunnel from Southern Forebay to Reception Shaft	SF - Central - 48	5/6/2031	1/8/2035	1342	6	20
Finish Work for Tunnel from Southern Forebay to Reception Shaft	SF - Central - 49	1/8/2035	4/16/2035	70	5	10
Erect Batch Plant #1	SF - Central - 50	3/5/2027	4/30/2027	40	5	10
Erect Batch Plant #2	SF - Central - 51	5/8/2029	7/2/2029	85	5	10
Operate Concrete Batch Plant	SF - Central - 52	4/30/2027	10/12/2035	2205	5	10
Intermediate Access Road Overlays	SF - Central - 53	6/20/2036	7/7/2036	12	5	10
Final Access Road Overlays	SF - Central - 54	4/22/2030	5/6/2030	11	5	10
Site Restoration	SF - Central - 55	7/17/2035	7/11/2036	255	5	10

Total Site Acres	1700					
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**Vehicle Inventory for Southern Complex on Byron Tract - Central
Option 5**

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Code	Equipment Name	General Equipment	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
SF - Central - 1	Air Compressor 185 cfm	Air Compresso	8.9	208	0.0	Diesel Tier 4	49	0.48		
SF - Central - 1	CAT Forklift 5,500 LB	Aerial Lift	799.7	208	3.8	Diesel	63	0.31		
SF - Central - 1	Grove RT Crane 30T	Crane	319.9	208	1.5	Diesel	160	0.29		
SF - Central - 1	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	4.4	208	0.0	Diesel	75	0.31		
SF - Central - 1	Boom Truck, 12.5 Tn Boom	Crane	4.4	208	0.0	Diesel or Hybrid	100	0.29		
SF - Central - 2	Air Compressor 185 cfm	Air Compresso	44.4	324	0.1	Diesel Tier 4	49	0.48		
SF - Central - 2	Boom Truck, 12.5 Tn Boom	Crane	22.2	324	0.1	Diesel or Hybrid	100	0.29		
SF - Central - 2	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	22.2	324	0.1	Diesel	75	0.31		
SF - Central - 2	CAT Forklift 5,500 LB	Aerial Lift	4000.3	324	12.3	Diesel	63	0.31		
SF - Central - 2	Grove RT Crane 55T, 247 hp	Crane	1600.1	324	4.9	Diesel	247	0.29		
SF - Central - 3	CAT 14 M	Grader	853.3	253	3.4	Diesel	274	0.41		
SF - Central - 3	CAT 825, Roller	Roller	466.1	253	1.8	Diesel	315	0.38		
SF - Central - 3	CAT 962 H Wheel Loader	Rubber Tired L	620.2	253	2.5	Diesel	230	0.36		
SF - Central - 3	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	620.2	253	2.5	Diesel	158	0.38		
SF - Central - 3	CAT D6LGPDozer w winch	Crawler Tractor	1799.2	253	7.1	Diesel or Hybrid	179	0.43		
SF - Central - 3	CAT LOADER/HOE 416 E	Rubber Tired L	2613.1	253	10.3	Diesel	78	0.36		
SF - Central - 3	Compactor, Trench Roller, Vib 32"w	Rollers	378.7	253	1.5	Diesel	20	0.38		
SF - Central - 3	Disk, Towed	Off Highway	466.1	253	1.8	Diesel	140	0.44		
SF - Central - 3	Grove RT Crane 55T, 247 hp	Crane	2423.8	253	9.6	Diesel	247	0.29		
SF - Central - 3	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	363.6	253	1.4	Diesel	384	0.38		
SF - Central - 3	Water Pump, 4" Diesel	Pumps	180	253	0.7	Diesel	10	0.74		
SF - Central - 4	Air Compressor 375 cfm	Air Compresso	30.4	318	0.1	Diesel Tier 4	122	0.48		
SF - Central - 4	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	311.9	318	1	Diesel or Hybrid	224	0.42		
SF - Central - 4	Asphalt Rollier, 2 Drum 12tn, 137hp	Roller	311.9	318	1	Diesel or Hybrid	137	0.38		
SF - Central - 4	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	311.9	318	1	Diesel or Hybrid	133	0.38		
SF - Central - 4	CAT 14 M	Grader	646.9	318	2.0	Diesel	274	0.41		
SF - Central - 4	CAT 815, Roller	Roller	203.4	318	0.6	Diesel	170	0.38		
SF - Central - 4	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	545.3	318	1.7	Diesel	158	0.38		
SF - Central - 4	CAT D6LGPDozer w winch	Crawler Tractor	470.7	318	1.5	Diesel or Hybrid	179	0.43		
SF - Central - 4	CAT LOADER/HOE 416 E	Rubber Tired L	477.9	318	1.5	Diesel	78	0.36		
SF - Central - 4	Compactor, Plate, 22"w x 35"	Plate Compactors	30.4	318	0.1	Diesel	8.5	0.43		
SF - Central - 4	Compactor, Trench Roller, Vib 32"w	Rollers	140	318	0.4	Diesel	20	0.38		
SF - Central - 4	Disk, Towed	Off Highway	203.4	318	0.6	Diesel	140	0.44		
SF - Central - 4	Grove RT Crane 55T, 247 hp	Crane	1424.2	318	4.5	Diesel	247	0.29		
SF - Central - 4	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	267.3	318	0.8	Diesel	384	0.38		
SF - Central - 4	Manitowoc 555 150T, 250' Boom	Crane	1424.2	318	4.5	Diesel	760	0.29		
SF - Central - 4	Water Pump, 4" Diesel	Pumps	569.7	318	1.8	Diesel	10	0.74		
SF - Central - 5	CAT 14 M	Grader	276.7	21	13.2	Diesel	274	0.41		
SF - Central - 5	CAT 988 H Wheel Loader	Rubber Tired L	100	21	4.8	Diesel	400	0.36		
SF - Central - 5	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	100	21	4.8	Diesel	158	0.38		
SF - Central - 5	CAT D3 LGP, Dozer	Crawler Tractor	153.6	21	7.3	Diesel or Hybrid	76	0.43		
SF - Central - 5	CAT D6LGPDozer w winch	Crawler Tractor	153.6	21	7.3	Diesel or Hybrid	179	0.43		
SF - Central - 5	CAT IT28H, 10640 LB Tool Carrier	Rubber Tired L	153.6	21	7.3	Diesel	145	0.36		
SF - Central - 5	Water Pump, 6" Diesel	Pumps	100	21	4.8	Diesel	13	0.74		
SF - Central - 5	Water Pump, 3" Gas, Diaphragm	Pumps	153.6	21	7.3	Gasoline	10	0.74		
SF - Central - 6	Air Compressor 185 cfm	Air Compresso	759.3	169	4.5	Diesel Tier 4	49	0.48		
SF - Central - 6	Air Compressor 375 cfm	Air Compresso	15187.2	169	89.9	Diesel Tier 4	122	0.48		
SF - Central - 6	Boom Truck, 12.5 Tn Boom	Crane	379.7	169	2.2	Diesel or Hybrid	100	0.29		
SF - Central - 6	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired L	12168	169	72	Diesel	110	0.36		
SF - Central - 6	DMM Deep Soil Mixer, 3 Shaft, 808 HP	Bore Drill Rig	12168	169	72	Diesel	522	0.5		
SF - Central - 6	DMM Grout Mix Plant w Delivery Pump	Other Industrie	12168	169	72	Diesel	500	0.34		
SF - Central - 6	Grove RT Crane 30T	Crane	12168	169	72	Diesel	160	0.29		
SF - Central - 6	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	379.7	169	2.2	Diesel	75	0.31		
SF - Central - 6	Portable, 90 Kw, Diesel, 158HP	Welders	1183	169	7	Diesel Tier 4	158	0.45		
SF - Central - 7	Air Compressor 185 cfm	Air Compresso	2815.9	500	5.6	Diesel Tier 4	49	0.48		
SF - Central - 7	Boom Truck, 12.5 Tn Boom	Crane	1407.9	500	2.8	Diesel or Hybrid	100	0.29		
SF - Central - 7	CAT 14 M	Grader	76.8	500	0.2	Diesel	274	0.41		
SF - Central - 7	Cat 613 C Self Loading Scraper	Scraper	153.6	500	0.3	Diesel	187	0.48		
SF - Central - 7	CAT 950 H Wheel Loader	Rubber Tired L	768	500	1.5	Diesel or Hybrid	130	0.36		
SF - Central - 7	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	76.8	500	0.2	Diesel	158	0.38		
SF - Central - 7	CAT D6LGPDozer w winch	Crawler Tractor	76.8	500	0.2	Diesel or Hybrid	179	0.43		
SF - Central - 7	CAT LOADER/HOE 416 E	Rubber Tired L	7488	500	15.0	Diesel	78	0.36		
SF - Central - 7	Compactor, Plate, 22"w x 35"	Plate Compactors	384	500	0.8	Diesel	8.5	0.43		
SF - Central - 7	Disk, Towed	Off Highway	7488	500	15.0	Diesel	140	0.44		
SF - Central - 7	Farm Tractor, All Wheel Drive, 80 HP	Off Highway	3744	500	7.5	Diesel	80	0.44		
SF - Central - 7	Grove RT Crane 30T	Crane	135.2	500	0.3	Diesel	160	0.29		
SF - Central - 7	Grove RT Crane 80T, 275hp	Crane	135.2	500	0.3	Diesel	275	0.29		
SF - Central - 7	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	1475.6	500	3.0	Diesel	75	0.31		
SF - Central - 7	Water Pump, 4" Diesel	Pumps	76.8	500	0.2	Diesel	10	0.74		
SF - Central - 8	Air Compressor 900 cfm	Air Compresso	9984	1321	7.6	Diesel Tier 4	300	0.48		
SF - Central - 8	CAT 12 M	Grader	1375	1321	1.0	Diesel	173	0.41		
SF - Central - 8	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	1375	1321	1.0	Diesel	158	0.38		
SF - Central - 8	CAT LOADER/HOE 416 E	Rubber Tired L	6877.6	1321	5.2	Diesel	78	0.36		
SF - Central - 8	Manitowoc 999-275 Ton Crane	Crane	19968	1321	15.1	Diesel	900	0.29		
SF - Central - 8	Portable, 90 Kw, Diesel, 158HP	Welders	19968	1321	15.1	Diesel Tier 4	158	0.45		
SF - Central - 8	Trk Crane, 200tn Hyd, 197'bm, 563hp	Crane	19968	1321	15.1	Diesel	563	0.29		

SF - Central - 9	400A Diesel Welder, Trailer Mounted	Welders	326.4	201	1.6	Diesel	22	0.45
SF - Central - 9	Air Compressor 185 cfm	Air Compresso	960	201	4.8	Diesel Tier 4	49	0.48
SF - Central - 9	Air Compressor 900 cfm	Air Compresso	288	201	1.4	Diesel Tier 4	300	0.48
SF - Central - 9	Boom Truck, 12.5 Tn Boom	Crane	960	201	4.8	Diesel or Hybrid	100	0.29
SF - Central - 9	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired L	512	201	2.5	Diesel	110	0.36
SF - Central - 9	CAT 12 M	Grader	6	201	0.0	Diesel	173	0.41
SF - Central - 9	CAT 950 H Wheel Loader	Rubber Tired L	80	201	0.4	Diesel or Hybrid	130	0.36
SF - Central - 9	CAT 973 Track Loader, 4.2 cy, 263hp	Skid Loader	592	201	2.9	Diesel or Hybrid	210	0.37
SF - Central - 9	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	80	201	0.4	Diesel	158	0.38
SF - Central - 9	CAT D3 LGP, Dozer	Crawler	80	201	0.4	Diesel or Hybrid	76	0.43
SF - Central - 9	CAT D6LGPDozer w winch	Tractor Crawler Tractor	24	201	0.1	Diesel or Hybrid	179	0.43
SF - Central - 9	Compactor, Plate, 22"w x 35"	Plate Compactors	256	201	1.3	Diesel	8.5	0.43
SF - Central - 9	Concrete Vibrator, 2"	Other Construc	576	201	2.9	Gasoline	3	0.42
SF - Central - 9	Grove RT Crane 30T	Crane	960	201	4.8	Diesel	160	0.29
SF - Central - 9	Grove RT Crane 55T, 247 hp	Crane	182.4	201	0.9	Diesel	247	0.29
SF - Central - 9	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	24	201	0.1	Diesel	384	0.38
SF - Central - 9	Manitowoc 555 150T, 250' Boom	Crane	38.4	201	0.2	Diesel	760	0.29
SF - Central - 9	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	960	201	4.8	Diesel	75	0.31
SF - Central - 9	Portable, 90 Kw, Diesel, 158HP	Welders	288	201	1.4	Diesel Tier 4	158	0.45
SF - Central - 10	400A Diesel Welder, Trailer Mounted	Welders	78	85	0.9	Diesel	22	0.45
SF - Central - 10	CAT 14 M	Grader	71.2	85	0.8	Diesel	274	0.41
SF - Central - 10	CAT 988 H Wheel Loader	Rubber Tired L	71.2	85	0.8	Diesel	400	0.36
SF - Central - 10	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	71.2	85	0.8	Diesel	158	0.38
SF - Central - 10	Grove RT Crane 55T, 247 hp	Crane	156	85	1.8	Diesel	247	0.29
SF - Central - 10	Portable, 90 Kw, Diesel, 158HP	Welders	78	85	0.9	Diesel Tier 4	158	0.45
SF - Central - 10	Water Pump, 6" Diesel	Pumps	71.2	85	0.8	Diesel	13	0.74
SF - Central - 11	Air Compressor 185 cfm	Air Compresso	890	293	3.0	Diesel Tier 4	49	0.48
SF - Central - 11	Bentonite Mix Plant/Desander	Cement & Mor	8220.4	293	28.1	Diesel Tier 4	100	0.56
SF - Central - 11	Boom Truck, 12.5 Tn Boom	Crane	445	293	1.5	Diesel or Hybrid	100	0.29
SF - Central - 11	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired L	8220.4	293	28.1	Diesel	110	0.36
SF - Central - 11	CAT 14 M	Grader	400.9	293	1.4	Diesel	274	0.41
SF - Central - 11	CAT 962 H Wheel Loader	Rubber Tired L	8220.4	293	28.1	Diesel	230	0.36
SF - Central - 11	CAT 988 H Wheel Loader	Rubber Tired L	200.4	293	0.7	Diesel	400	0.36
SF - Central - 11	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	200.4	293	0.7	Diesel	158	0.38
SF - Central - 11	CAT D6LGPDozer w winch	Crawler Tractor	8220.4	293	28.1	Diesel or Hybrid	179	0.43
SF - Central - 11	Grove RT Crane 55T, 247 hp	Crane	8221.4	293	28.1	Diesel	247	0.29
SF - Central - 11	Grove RT Crane 80T, 275hp	Crane	8220.4	293	28.1	Diesel	275	0.29
SF - Central - 11	Manitowoc 555 150T, 250' Boom	Crane	15256.1	293	52.1	Diesel	760	0.29
SF - Central - 11	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	445	293	1.5	Diesel	75	0.31
SF - Central - 11	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mor	8220.4	293	28	Diesel	8	0.56
SF - Central - 11	Slurry Wall Techniwell	Pumps	8221.4	293	28	Diesel	500	0.74
SF - Central - 11	Well Drill	Bore/Drill Rigs	192	293	0.7	Diesel	136	0.5
SF - Central - 12	400A Diesel Welder, Trailer Mounted	Welders	3251.8	721	4.5	Diesel	22	0.45
SF - Central - 12	Air Compressor 375 cfm	Air Compresso	58.5	721	0.1	Diesel Tier 4	122	0.48
SF - Central - 12	Air Compressor 900 cfm	Air Compresso	2600.4	721	3.6	Diesel Tier 4	300	0.48
SF - Central - 12	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Constr	206.5	721	0.3	Diesel	50	0.42
SF - Central - 12	Bobcat S630 Skid Steer Loader	Skid Loader	266.6	721	0.4	Diesel	74	0.37
SF - Central - 12	CAT 14 M	Grader	130.4	721	0.2	Diesel	274	0.41
SF - Central - 12	CAT 390 MASS EXC	Excavator	1754.9	721	2.4	Diesel	534	0.38
SF - Central - 12	CAT 815, Roller	Roller	260.8	721	0.4	Diesel	170	0.38
SF - Central - 12	CAT D6LGPDozer w winch	Crawler Tractor	260.8	721	0.4	Diesel or Hybrid	179	0.43
SF - Central - 12	CAT D8Rii, Dozer w winch	Crawler Tractor	1246	721	1.7	Diesel	310	0.43
SF - Central - 12	Concrete Vibrator, 2"	Other Construc	9579.9	721	13.3	Gasoline	3	0.42
SF - Central - 12	Grove RT Crane 15T, 100hp	Crane	361.8	721	0.5	Diesel	100	0.29
SF - Central - 12	Grove RT Crane 55T, 247 hp	Crane	7235.9	721	10.0	Diesel	247	0.29
SF - Central - 12	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	1494.2	721	2.1	Diesel	345	0.38
SF - Central - 12	Light Plant, 4 lite, 1000w, Tower/Mast	Generator	153.6	721	0.2	Diesel	12	0.74
SF - Central - 12	Manitowoc 555 150T, 250' Boom	Crane	16252.4	721	22.5	Diesel	760	0.29
SF - Central - 12	Portable, 20 Kw, Diesel, 36HP	Welders	58.5	721	0.1	Diesel Tier 4	36	0.45
SF - Central - 12	Portable, 90 Kw, Diesel, 158HP	Welders	3193.3	721	4.4	Diesel Tier 4	158	0.45
SF - Central - 12	Water Pump, 10" Diesel	Pumps	2060.2	721	2.9	Diesel	200	0.74
SF - Central - 13	400A Diesel Welder, Trailer Mounted	Welders	1569.9	792	2.0	Diesel	22	0.45
SF - Central - 13	Air Compressor 185 cfm	Air Compresso	208.3	792	0.3	Diesel Tier 4	49	0.48
SF - Central - 13	Air Compressor 375 cfm	Air Compresso	4.8	792	0.0	Diesel Tier 4	122	0.48
SF - Central - 13	Air Compressor 900 cfm	Air Compresso	1565.1	792	2.0	Diesel Tier 4	300	0.48
SF - Central - 13	Bentonite Mix Plant/Desander	Cement & Mor	1870.9	792	2.4	Diesel Tier 4	100	0.56
SF - Central - 13	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Constr	164.7	792	0.2	Diesel	50	0.42
SF - Central - 13	Bobcat S630 Skid Steer Loader	Skid Loader	87	792	0.1	Diesel	74	0.37
SF - Central - 13	Boom Truck, 12.5 Tn Boom	Crane	104.2	792	0.1	Diesel or Hybrid	100	0.29
SF - Central - 13	CAT 12 M	Grader	57.5	792	0.1	Diesel	173	0.41
SF - Central - 13	CAT 14 M	Grader	95.2	792	0.1	Diesel	274	0.41
SF - Central - 13	CAT 390 MASS EXC	Excavator	58.9	792	0.1	Diesel	534	0.38
SF - Central - 13	CAT 815, Roller	Roller	58.9	792	0.1	Diesel	170	0.38
SF - Central - 13	CAT 962 H Wheel Loader	Rubber Tired L	1870.9	792	2.4	Diesel	230	0.36
SF - Central - 13	CAT 988 H Wheel Loader	Rubber Tired L	32.9	792	0.0	Diesel	400	0.36
SF - Central - 13	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	32.9	792	0.0	Diesel	158	0.38
SF - Central - 13	CAT D3 LGP, Dozer	Crawler Tractor	230.1	792	0.3	Diesel or Hybrid	76	0.43
SF - Central - 13	CAT D6LGPDozer w winch	Crawler Tractor	1928.8	792	2.4	Diesel or Hybrid	179	0.43
SF - Central - 13	CAT D8Rii, Dozer w winch	Crawler Tractor	312.8	792	0.4	Diesel	310	0.43
SF - Central - 13	Compactor, Plate, 22"w x 35"	Plate Compactors	87	792	0.1	Diesel	8.5	0.43
SF - Central - 13	Compactor, Trench Roller, Vib 32"w	Rollers	87	792	0.1	Diesel	20	0.38
SF - Central - 13	Concrete Vibrator, 2"	Other Construc	4695.2	792	5.9	Gasoline	3	0.42
SF - Central - 13	Grove RT Crane 55T, 247 hp	Crane	4253.3	792	5.4	Diesel	247	0.29

SF - Central - 13	Grove RT Crane 80T, 275hp	Crane	3742.2	792	4.7	Diesel	275	0.29
SF - Central - 13	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	230.1	792	0.3	Diesel	384	0.38
SF - Central - 13	Manitowoc 555 150T, 250' Boom	Crane	9920.1	792	12.5	Diesel	760	0.29
SF - Central - 13	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	104.2	792	0.1	Diesel	75	0.31
SF - Central - 13	Portable, 90 Kw, Diesel, 158HP	Welders	1565.1	792	2.0	Diesel Tier 4	158	0.45
SF - Central - 13	Water Pump, 10" Diesel	Pumps	1536	792	1.9	Diesel	200	0.74
SF - Central - 13	Water Pump, 6" Diesel	Pumps	1903.8	792	2.4	Diesel	13	0.74
SF - Central - 14	400A Diesel Welder, Trailer Mounted	Welders	3205	908	3.5	Diesel	22	0.45
SF - Central - 14	Air Compressor 375 cfm	Air Compresso	175.6	908	0.2	Diesel Tier 4	122	0.48
SF - Central - 14	Air Compressor 900 cfm	Air Compresso	3029.4	908	3.3	Diesel Tier 4	300	0.48
SF - Central - 14	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Constr	332.4	908	0.4	Diesel	50	0.42
SF - Central - 14	Bobcat S630 Skid Steer Loader	Skid Loader	1378	908	1.5	Diesel	74	0.37
SF - Central - 14	CAT 14 M	Grader	244.2	908	0.3	Diesel	274	0.41
SF - Central - 14	CAT 390 MASS EXC	Excavator	921.4	908	1.0	Diesel	534	0.38
SF - Central - 14	CAT 815, Roller	Roller	488.5	908	0.5	Diesel	170	0.38
SF - Central - 14	CAT D6LGPDozer w winch	Crawler Tractor	488.5	908	0.5	Diesel or Hybrid	179	0.43
SF - Central - 14	CAT D8Rii, Dozer w winch	Crawler Tractor	488.5	908	0.5	Diesel	310	0.43
SF - Central - 14	Compactor, Plate, 22"w x 35"	Plate Compactors	1378	908	1.5	Diesel	8.5	0.43
SF - Central - 14	Compactor, Trench Roller, Vib 32"w	Roller	1378	908	1.5	Diesel	20	0.38
SF - Central - 14	Concrete Vibrator, 2"	Other Construc	9088.1	908	10.0	Gasoline	3	0.42
SF - Central - 14	Grove RT Crane 55T, 247 hp	Crane	3185.8	908	3.5	Diesel	247	0.29
SF - Central - 14	Grove RT Crane 80T, 275hp	Crane	383.3	908	0.4	Diesel	275	0.29
SF - Central - 14	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	433	908	0.5	Diesel	345	0.38
SF - Central - 14	Light Plant, 4 lite, 1000w, Tower/Mast	Generator	345.6	908	0.4	Diesel	12	0.74
SF - Central - 14	Manitowoc 555 150T, 250' Boom	Crane	7381.5	908	8.1	Diesel	760	0.29
SF - Central - 14	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	156.4	908	0.2	Diesel	75	0.31
SF - Central - 14	Portable, 20 Kw, Diesel, 36HP	Welders	156.4	908	0.2	Diesel Tier 4	36	0.45
SF - Central - 14	Portable, 90 Kw, Diesel, 158HP	Welders	3029.4	908	3.3	Diesel Tier 4	158	0.45
SF - Central - 14	Vibro Driver/Extractor V208	Other Construc	156.4	908	0.2	Diesel	325	0.42
SF - Central - 15A	400A Diesel Welder, Trailer Mounted	Welders	2995.5	263	11.4	Diesel	22	0.45
SF - Central - 15A	CAT IT28H, 10640 LB Tool Carrier	Rubber Tired L	2995.5	263	11.4	Diesel	145	0.36
SF - Central - 15A	Manitowoc 555 150T, 250' Boom	Crane	2995.5	263	11.4	Diesel	760	0.29
SF - Central - 15B	400A Diesel Welder, Trailer Mounted	Welders	861.4	142	6.1	Diesel	22	0.45
SF - Central - 15B	Air Compressor 185 cfm	Air Compresso	76.8	142	0.5	Diesel Tier 4	49	0.48
SF - Central - 15B	Air Compressor 375 cfm	Air Compresso	591.7	142	4.2	Diesel Tier 4	122	0.48
SF - Central - 15B	Air Compressor 900 cfm	Air Compresso	861.4	142	6.1	Diesel Tier 4	300	0.48
SF - Central - 15B	Bentonite Mix Plant/Desander	Cement & Mor	591.7	142	4.2	Diesel Tier 4	100	0.56
SF - Central - 15B	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Constr	80.9	142	0.6	Diesel	50	0.42
SF - Central - 15B	Bobcat S630 Skid Steer Loader	Skid Loader	250.5	142	1.8	Diesel	74	0.37
SF - Central - 15B	Boom Truck, 12.5 Tn Boom	Crane	38.4	142	0.3	Diesel or Hybrid	100	0.29
SF - Central - 15B	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired L	591.7	142	4.2	Diesel	110	0.36
SF - Central - 15B	CAT 12 M	Grader	298.6	142	2.1	Diesel	173	0.41
SF - Central - 15B	CAT 14 M	Grader	761.1	142	5.4	Diesel	274	0.41
SF - Central - 15B	CAT 953 Track Loader, 2.25cy, 148hp	Skid Loader	591.7	142	4.2	Diesel	148	0.37
SF - Central - 15B	CAT 988 H Wheel Loader	Rubber Tired L	380.5	142	2.7	Diesel	400	0.36
SF - Central - 15B	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	380.5	142	2.7	Diesel	158	0.38
SF - Central - 15B	CAT D6LGPDozer w winch	Crawler Tractor	2980.9	142	21.0	Diesel or Hybrid	179	0.43
SF - Central - 15B	Compactor, Plate, 22"w x 35"	Plate Compactors	250.5	142	1.8	Diesel	8.5	0.43
SF - Central - 15B	Compactor, Trench Roller, Vib 32"w	Roller	250.5	142	1.8	Diesel	20	0.38
SF - Central - 15B	Concrete Vibrator, 2"	Other Construc	2584.3	142	18.2	Gasoline	3	0.42
SF - Central - 15B	Grove RT Crane 15T, 100hp	Crane	591.7	142	4.2	Diesel	100	0.29
SF - Central - 15B	Grove RT Crane 55T, 247 hp	Crane	1034.2	142	7.3	Diesel	247	0.29
SF - Central - 15B	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	1194.6	142	8.4	Diesel	384	0.38
SF - Central - 15B	Manitowoc 555 150T, 250' Boom	Crane	2912.9	142	20.5	Diesel	760	0.29
SF - Central - 15B	Portable, 90 Kw, Diesel, 158HP	Welders	861.4	142	6.1	Diesel Tier 4	158	0.45
SF - Central - 15B	Water Pump, 6" Diesel	Pumps	972.3	142	6.8	Diesel	13	0.74
SF - Central - 16	400A Diesel Welder, Trailer Mounted	Welders	289.1	147	2.0	Diesel	22	0.45
SF - Central - 16	Air Compressor 185 cfm	Air Compresso	1100.8	147	7.5	Diesel Tier 4	49	0.48
SF - Central - 16	Air Compressor 900 cfm	Air Compresso	289.1	147	2.0	Diesel Tier 4	300	0.48
SF - Central - 16	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Constr	91.1	147	0.6	Diesel	50	0.42
SF - Central - 16	Boom Truck, 12.5 Tn Boom	Crane	1100.8	147	7.5	Diesel or Hybrid	100	0.29
SF - Central - 16	CAT 950 H Wheel Loader	Rubber Tired L	72.3	147	0.5	Diesel or Hybrid	130	0.36
SF - Central - 16	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	72.3	147	0.5	Diesel	158	0.38
SF - Central - 16	CAT D3 LGP, Dozer	Crawler Tractor	72.3	147	0.5	Diesel or Hybrid	76	0.43
SF - Central - 16	Concrete Vibrator, 2"	Other Construc	578.1	147	3.9	Gasoline	3	0.42
SF - Central - 16	Grove RT Crane 30T	Crane	1100.8	147	7.5	Diesel	160	0.29
SF - Central - 16	Grove RT Crane 55T, 247 hp	Crane	289.1	147	2.0	Diesel	247	0.29
SF - Central - 16	Manitowoc 555 150T, 250' Boom	Crane	289.1	147	2.0	Diesel	760	0.29
SF - Central - 16	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	1100.8	147	7.5	Diesel	75	0.31
SF - Central - 17	400A Diesel Welder, Trailer Mounted	Welders	1232.0	31	39.7	Diesel	22	0.45
SF - Central - 17	Air Compressor 185 cfm	Air Compresso	1232.0	31	39.7	Diesel Tier 4	49	0.48
SF - Central - 17	Air Compressor 900 cfm	Air Compresso	77.7	31	2.5	Diesel Tier 4	300	0.48
SF - Central - 17	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Constr	24.5	31	0.8	Diesel	50	0.42
SF - Central - 17	Boom Truck, 12.5 Tn Boom	Crane	1232.0	31	39.7	Diesel or Hybrid	100	0.29
SF - Central - 17	CAT 950 H Wheel Loader	Rubber Tired L	10.9	31	0.4	Diesel or Hybrid	130	0.36
SF - Central - 17	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	10.9	31	0.4	Diesel	158	0.38
SF - Central - 17	CAT D3 LGP, Dozer	Crawler Tractor	10.9	31	0.4	Diesel or Hybrid	76	0.43
SF - Central - 17	Concrete Vibrator, 2"	Other Construc	155.4	31	5	Gasoline	3	0.42
SF - Central - 17	Grove RT Crane 30T	Crane	1232	31	39.7	Diesel	160	0.29
SF - Central - 17	Grove RT Crane 55T, 247 hp	Crane	77.7	31	2.5	Diesel	247	0.29
SF - Central - 17	Manitowoc 555 150T, 250' Boom	Crane	77.7	31	2.5	Diesel	760	0.29
SF - Central - 17	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	1232	31	39.7	Diesel	75	0.31
SF - Central - 17	Portable, 90 Kw, Diesel, 158HP	Welders	77.7	31	2.5	Diesel Tier 4	158	0.45
SF - Central - 18	400A Diesel Welder, Trailer Mounted	Welders	0.2	28	0.0	Diesel	22	0.45

SF - Central - 18	Air Compressor 185 cfm	Air Compresso	0.2	28	0.0	Diesel Tier 4	49	0.48
SF - Central - 18	Air Compressor 900 cfm	Air Compresso	42.4	28	1.5	Diesel Tier 4	300	0.48
SF - Central - 18	Boom Truck, 12.5 Tn Boom	Crane		28	0.0	Diesel or Hybrid	100	0.29
SF - Central - 18	CAT 950 H Wheel Loader	Rubber Tired L	24.2	28	0.9	Diesel or Hybrid	130	0.36
SF - Central - 18	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	24.2	28	0.9	Diesel	158	0.38
SF - Central - 18	CAT D3 LGP, Dozer	Crawler Tractor	24.2	28	0.9	Diesel or Hybrid	76	0.43
SF - Central - 18	Concrete Vibrator, 2"	Other Construc	84.7	28	3.0	Gasoline	3	0.42
SF - Central - 18	Grove RT Crane 30T	Crane		28	0.0	Diesel	160	0.29
SF - Central - 18	Grove RT Crane 55T, 247 hp	Crane	42.4	28	1.5	Diesel	247	0.29
SF - Central - 18	Manitowoc 555 150T, 250' Boom	Crane	42.4	28	1.5	Diesel	760	0.29
SF - Central - 18	Portable, 90 Kw, Diesel, 158HP	Welders	42.4	28	1.5	Diesel Tier 4	158	0.45
SF - Central - 19	400A Diesel Welder, Trailer Mounted	Welders	775.6	317	2.4	Diesel	22	0.45
SF - Central - 19	Air Compressor 185 cfm	Air Compresso	2198.4	317	6.9	Diesel Tier 4	49	0.48
SF - Central - 19	Air Compressor 900 cfm	Air Compresso	2198.4	317	6.9	Diesel Tier 4	300	0.48
SF - Central - 19	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	35.9	317	0	Diesel or Hybrid	224	0.42
SF - Central - 19	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	35.9	317	0	Diesel or Hybrid	137	0.38
SF - Central - 19	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	35.9	317	0	Diesel or Hybrid	133	0.38
SF - Central - 19	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Constr	244.3	317	0.8	Diesel	50	0.42
SF - Central - 19	Bobcat 5630 Skid Steer Loader	Skid Loader	1115.5	317	3.5	Diesel	74	0.37
SF - Central - 19	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired L	749.8	317	2.4	Diesel	110	0.36
SF - Central - 19	CAT 14 M	Grader	60.2	317	0.2	Diesel	274	0.41
SF - Central - 19	Boom Truck, 12.5 Tn Boom	Crane	2198.4	317	6.9	Diesel or Hybrid	100	0.29
SF - Central - 19	CAT 390 MASS EXC	Excavator	2.5	317	0.0	Diesel	534	0.38
SF - Central - 19	CAT 825, Roller	Roller	2.5	317	0.0	Diesel	315	0.38
SF - Central - 19	CAT 950 H Wheel Loader	Rubber Tired L	884.5	317	2.8	Diesel or Hybrid	130	0.36
SF - Central - 19	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	192.4	317	0.6	Diesel	158	0.38
SF - Central - 19	CAT D3 LGP, Dozer	Crawler Tractor	134.6	317	0.4	Diesel or Hybrid	76	0.43
SF - Central - 19	CAT D6LGPDozer w winch	Crawler Tractor	5.1	317	0.0	Diesel or Hybrid	179	0.43
SF - Central - 19	CAT LOADER/HOE 416 E	Rubber Tired L	580.7	317	1.8	Diesel	78	0.36
SF - Central - 19	Compactor, Plate, 22"w x 35"	Plate Compactors	374.9	317	1.2	Diesel	8.5	0.43
SF - Central - 19	Concrete Vibrator, 2"	Other Construc	1551.2	317	4.9	Gasoline	3	0.42
SF - Central - 19	Disk, Towed	Off Highway	2.5	317	0.0	Diesel	140	0.44
SF - Central - 19	Grove RT Crane 30T	Crane	2198.4	317	6.9	Diesel	160	0.29
SF - Central - 19	Grove RT Crane 55T, 247 hp	Crane	775.6	317	2.4	Diesel	247	0.29
SF - Central - 19	Manitowoc 555 150T, 250' Boom	Crane	387.7	317	1.2	Diesel	760	0.29
SF - Central - 19	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	2198.4	317	6.9	Diesel	75	0.31
SF - Central - 19	Portable, 90 Kw, Diesel, 158HP Water Pump, 4" Diesel	Welders	775.6	317	2.4	Diesel Tier 4	158	0.45
SF - Central - 19		Pumps	12	317	0.0	Diesel	10	0.74
SF - Central - 20	400A Diesel Welder, Trailer Mounted	Welders	2121.4	679	3.1	Diesel	22	0.45
SF - Central - 20	Air Compressor 185 cfm	Air Compresso	5120	679	7.5	Diesel Tier 4	49	0.48
SF - Central - 20	Air Compressor 900 cfm	Air Compresso	2121.4	679	3.1	Diesel Tier 4	300	0.48
SF - Central - 20	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Constr	294.1	679	0.4	Diesel	50	0.42
SF - Central - 20	Bobcat 5630 Skid Steer Loader	Skid Loader	85.7	679	0.1	Diesel	74	0.37
SF - Central - 20	Boom Truck, 12.5 Tn Boom	Crane	4160	679	6.1	Diesel or Hybrid	100	0.29
SF - Central - 20	Compactor, Plate, 22"w x 35"	Plate Compactors	530.3	679	0.8	Diesel	8.5	0.43
SF - Central - 20	Concrete Vibrator, 2"	Other Construc	6364.1	679	9.4	Gasoline	3	0.42
SF - Central - 20	Grove RT Crane 55T, 247 hp	Crane	2121.4	679	3.1	Diesel	247	0.29
SF - Central - 20	Grove RT Crane 80T, 275hp	Crane	4870.4	679	7.2	Diesel	275	0.29
SF - Central - 20	Manitowoc 555 150T, 250' Boom	Crane	6429	679	9.5	Diesel	760	0.29
SF - Central - 20	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	7410.5	679	10.9	Diesel	75	0.31
SF - Central - 20	Portable, 90 Kw, Diesel, 158HP	Welders	2121.4	679	3.1	Diesel Tier 4	158	0.45
SF - Central - 21	Air Compressor 185 cfm	Air Compresso	3200	878	3.6	Diesel Tier 4	49	0.48
SF - Central - 22	400A Diesel Welder, Trailer Mounted	Welders	384	269	1.4	Diesel	22	0.45
SF - Central - 22	Manitowoc 555 150T, 250' Boom	Crane	384	269	1.4	Diesel	760	0.29
SF - Central - 22	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	96	269	0.4	Diesel	75	0.31
SF - Central - 23	Air Compressor 185 cfm	Air Compresso	120.5	222	0.5	Diesel Tier 4	49	0.48
SF - Central - 23	Air Compressor 375 cfm	Air Compresso	39.6	222	0.2	Diesel Tier 4	122	0.48
SF - Central - 23	Boom Truck, 12.5 Tn Boom	Crane	110.2	222	0.5	Diesel or Hybrid	100	0.29
SF - Central - 23	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired L	1209.4	222	5.4	Diesel	110	0.36
SF - Central - 23	CAT 14 M	Grader	25208.8	222	113.6	Diesel	274	0.41
SF - Central - 23	Cat 613 C Self Loading Scraper	Scraper	80	222	0.4	Diesel	187	0.48
SF - Central - 23	CAT 815, Roller	Roller	711.9	222	3.2	Diesel	170	0.38
SF - Central - 23	CAT 950 H Wheel Loader	Rubber Tired L	1209.41	222	5.4	Diesel or Hybrid	130	0.36
SF - Central - 23	CAT 962 H Wheel Loader	Rubber Tired L	168.83	222	0.8	Diesel	230	0.36
SF - Central - 23	CAT 988 H Wheel Loader	Rubber Tired L	121.07	222	0.5	Diesel	400	0.36
SF - Central - 23	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	208.8	222	0.9	Diesel	158	0.38
SF - Central - 23	CAT D6LGPDozer w winch	Crawler Tractor	1931	222	8.7	Diesel or Hybrid	179	0.43
SF - Central - 23	CAT D8Rii, Dozer w winch	Crawler Tractor	121.1	222	0.5	Diesel	310	0.43
SF - Central - 23	CAT LOADER/HOE 416 E	Rubber Tired L	6329.1	222	28.5	Diesel	78	0.36
SF - Central - 23	Compactor, Plate, 22"w x 35"	Plate Compactors	644.3	222	2.9	Diesel	8.5	0.43
SF - Central - 23	Grove RT Crane 30T	Crane	120.5	222	0.5	Diesel	160	0.29
SF - Central - 23	Grove RT Crane 80T, 275hp	Crane	120.5	222	0.5	Diesel	275	0.29
SF - Central - 23	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	1220.9	222	5.5	Diesel	384	0.38
SF - Central - 23	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	120.5	222	0.5	Diesel	75	0.31
SF - Central - 23	Water Pump, 4" Diesel	Pumps	73.8	222	0.3	Diesel	10	0.74
SF - Central - 24	CAT 14 M	Grader	100	183	0.5	Diesel	274	0.41
SF - Central - 24	CAT 950 H Wheel Loader	Rubber Tired L	200	183	1.1	Diesel or Hybrid	130	0.36
SF - Central - 24	CAT D3 LGP, Dozer	Crawler Tractor	200	183	1.1	Diesel or Hybrid	76	0.43
SF - Central - 24	CAT D6LGPDozer w winch	Crawler Tractor	200	183	1.1	Diesel or Hybrid	179	0.43
SF - Central - 24	Water Pump, 3" Gas, Diaphragm	Pumps	1600	183	8.7	Gasoline	10	0.74
SF - Central - 25	Boom Truck, 12.5 Tn Boom	Crane	3900	393	9.9	Diesel or Hybrid	100	0.29

SF - Central - 25	CAT 12 M	Grader	5190.3	393	13.2	Diesel	173	0.41
SF - Central - 25	CAT D3 LGP, Dozer	Crawler Tractor	20761.4	393	52.8	Diesel or Hybrid	76	0.43
SF - Central - 25	CAT D6LGPDozer w winch	Crawler Tractor	1642.8	393	4.2	Diesel or Hybrid	179	0.43
SF - Central - 25	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	279.7	393	0.7	Diesel	345	0.38
SF - Central - 25	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	21844.8	393	55.6	Diesel	384	0.38
SF - Central - 25	Water Pump, 4" Diesel	Pumps	21900	393	55.7	Diesel	10	0.74
SF - Central - 26	Air Compressor 375 cfm	Air Compresso	20738.5	1356	15.3	Diesel Tier 4	122	0.48
SF - Central - 26	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired L	13560	1356	10	Diesel	110	0.36
SF - Central - 26	CAT 14 M	Grader	14302.4	1356	10.5	Diesel	274	0.41
SF - Central - 26	CAT 390 MASS EXC	Excavator	10332	1356	7.6	Diesel	534	0.38
SF - Central - 26	CAT 631G Scraper, Conventional	Scraper	73091.1	1356	53.9	Diesel	515	0.48
SF - Central - 26	CAT 825, Roller	Roller	28604.8	1356	21.1	Diesel	315	0.38
SF - Central - 26	CAT D6LGPDozer w winch	Crawler Tractor	29800.4	1356	22.0	Diesel or Hybrid	179	0.43
SF - Central - 26	CAT D9R, Dozer w ripper	Crawler Tractor	18272.8	1356	13.5	Diesel	410	0.43
SF - Central - 26	Disk, Towed	Off Highway	19468.4	1356	14	Diesel	140	0.44
SF - Central - 26	DMM Deep Soil Mixer, 3 Shaft, 808 HP	Bore Drill Rigs	13560	1356	10	Diesel	808	0.5
SF - Central - 26	DMM Grout Mix Plant w Delivery Pump	Other Industri	13560	1356	10	Diesel	500	0.34
SF - Central - 26	Grove RT Crane 30T	Crane	13560	1356	10	Diesel	160	0.29
SF - Central - 26	Portable, 90 Kw, Diesel, 158HP Water Pump, 4" Diesel	Welders	1356	1356	1	Diesel Tier 4	158	0.45
SF - Central - 26		Pumps	4259.1	1356	3.1	Diesel	10	0.74
SF - Central - 27	CAT 14 M	Grader	10	26	<1	Diesel	274	0.41
SF - Central - 27	Cat 613 C Self Loading Scraper	Scraper	290	26	11	Diesel	187	0.48
SF - Central - 27	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	10	26	<1	Diesel	158	0.38
SF - Central - 27	CAT D6LGPDozer w winch	Crawler Tractor	468	26	18	Diesel or Hybrid	179	0.43
SF - Central - 27	Disk, Towed	Off Highway	338	26	13	Diesel	140	0.44
SF - Central - 27	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	260	26	10	Diesel	345	0.38
SF - Central - 28	CAT 12 M	Grader	996.2	2276	0.4	Diesel	173	0.41
SF - Central - 28	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	996.2	2276	0.4	Diesel	158	0.38
SF - Central - 28	CAT LOADER/HOE 416 E	Rubber Tired L	14836.9	2276	6.5	Diesel	78	0.36
SF - Central - 28	Disk, Towed	Off Highway	6535	2276	2.9	Diesel	140	0.44
SF - Central - 28	Farm Tractor, All Wheel Drive, 80 HP	Off Highway	6535	2276	2.9	Diesel	80	0.44
SF - Central - 29	Bobcat S630 Skid Steer Loader	Skid Loader	107.1	187	0.6	Diesel	74	0.37
SF - Central - 29	Brush Chipper, 18" Cap., Trailer Mtd.	Other	67	187	0.4	Diesel	173	0.42
SF - Central - 29	CAT 14 M	Grader	3150.1	187	16.8	Diesel	274	0.41
SF - Central - 29	CAT 320D, 1.56 cy, 153 hp	Excavator	67	187	0.4	Diesel	138	0.38
SF - Central - 29	Cat 613 C Self Loading Scraper	Scraper	555.3	187	3.0	Diesel	187	0.48
SF - Central - 29	CAT 825, Roller	Roller	340.7	187	1.8	Diesel	315	0.38
SF - Central - 29	CAT 950 H Wheel Loader	Rubber Tired L	53.6	187	0.3	Diesel or Hybrid	130	0.36
SF - Central - 29	CAT 962 H Wheel Loader	Rubber Tired L	2093.1	187	11.2	Diesel	230	0.36
SF - Central - 29	CAT 966 Gil Wheel Loader	Rubber Tired L	2867.8	187	15.3	Diesel	286	0.36
SF - Central - 29	CAT 980 H Wheel Loader	Rubber Tired L	340.7	187	1.8	Diesel	393	0.36
SF - Central - 29	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	2093.1	187	11.2	Diesel	158	0.38
SF - Central - 29	CAT D3 LGP, Dozer	Crawler Tractor	26.8	187	0.1	Diesel or Hybrid	76	0.43
SF - Central - 29	CAT D6LGPDozer w winch	Crawler Tractor	869	187	4.6	Diesel or Hybrid	179	0.43
SF - Central - 29	CAT LOADER/HOE 416 E	Rubber Tired L	1868.4	187	10.0	Diesel	78	0.36
SF - Central - 29	Disk, Towed	Off Highway	507.7	187	2.7	Diesel	140	0.44
SF - Central - 29	Farm Tractor, All Wheel Drive, 80 HP	Off Highway	334	187	1.8	Diesel	80	0.44
SF - Central - 29	Gradall, 1.50 Cy, 282 Hp	Excavator	2867.8	187	15.3	Diesel	282	0.38
SF - Central - 29	Hydro Mulcher, 18 HP	Pumps	167	187	0.9	Diesel	25	0.74
SF - Central - 29	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	819.6	187	4.4	Diesel	345	0.38
SF - Central - 29	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	2921.3	187	15.6	Diesel	384	0.38
SF - Central - 29	Light Plant, 4 lite, 1000w, Tower/Mast	Generator	67	187	0.4	Diesel	12	0.74
SF - Central - 29	Portable, 20 Kw, Diesel, 36HP	Welders	535.4	187	2.9	Diesel Tier 4	36	0.45
SF - Central - 29	Water Pump, 4" Diesel	Pumps	4488.3	187	24.0	Diesel	10	0.74
SF - Central - 29	Disk, Towed	Off Highway	507.7	187	2.7	Diesel	140	0.44
SF - Central - 30	400A Diesel Welder, Trailer Mounted	Welders	632.2	186	3.4	Diesel	22	0.45
SF - Central - 30	Air Compressor 1600 cfm	Air Compresso	38	186	0.2	Diesel Tier 4	540	0.48
SF - Central - 30	Air Compressor 375 cfm	Air Compresso	1116	186	6	Diesel Tier 4	122	0.48
SF - Central - 30	Bentonite Mix Plant/Desander	Cement & Mor	137.5	186	0.7	Diesel Tier 4	100	0.56
SF - Central - 30	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired L	1306.7	186	7.0	Diesel	110	0.36
SF - Central - 30	CAT 14 M	Grader	138.6	186	0.7	Diesel	274	0.41
SF - Central - 30	CAT 390 MASS EXC	Excavator	137.5	186	0.7	Diesel	534	0.38
SF - Central - 30	CAT 631G Scraper, Conventional	Scraper	808.3	186	4.3	Diesel	515	0.48
SF - Central - 30	CAT 815, Roller	Roller	618	186	3.3	Diesel	170	0.38
SF - Central - 30	CAT 950 H Wheel Loader	Rubber Tired L	171.9	186	0.9	Diesel or Hybrid	130	0.36
SF - Central - 30	CAT 962 H Wheel Loader	Rubber Tired L	137.5	186	0.7	Diesel	230	0.36
SF - Central - 30	CAT 966 Gil Wheel Loader	Rubber Tired L	137.6	186	0.7	Diesel	286	0.36
SF - Central - 30	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	171.9	186	0.9	Diesel	158	0.38
SF - Central - 30	CAT D3 LGP, Dozer	Crawler Tractor	171.9	186	0.9	Diesel or Hybrid	76	0.43
SF - Central - 30	CAT D6LGPDozer w winch	Crawler Tractor	977.7	186	5.3	Diesel or Hybrid	179	0.43
SF - Central - 30	CAT D9R, Dozer w ripper	Crawler Tractor	269.4	186	1.4	Diesel	410	0.43
SF - Central - 30	Concrete Vibrator, 2"	Other Construc	290.3	186	1.6	Gasoline	3	0.42
SF - Central - 30	DMM Deep Soil Mixer, 3 Shaft, 808 HP	Bore Drill Rig	744	186	4	Diesel	522	0.5
SF - Central - 30	DMM Grout Mix Plant w Delivery Pump	Other Industri	744	186	4	Diesel	500	0.34
SF - Central - 30	Gradall, 1.50 Cy, 282 Hp	Excavator	137.6	186	0.7	Diesel	282	0.38
SF - Central - 30	Grove RT Crane 30T	Crane	744	186	4	Diesel	160	0.29
SF - Central - 30	Grove RT Crane 55T, 247 hp	Crane	642.5	186	3.5	Diesel	247	0.29
SF - Central - 30	Grove RT Crane 80T, 275hp	Crane	137.5	186	0.7	Diesel	275	0.29
SF - Central - 30	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	3.9	186	0.0	Diesel	345	0.38
SF - Central - 30	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	597.3	186	3.2	Diesel	384	0.38
SF - Central - 30	Manitowoc 555 150T, 250' Boom	Crane	550	186	3.0	Diesel	760	0.29

SF - Central - 30	Manitowoc 999-275 Ton Crane	Crane	38	186	0.2	Diesel	900	0.29
SF - Central - 30	Portable, 20 Kw, Diesel, 36HP	Welders	550	186	3.0	Diesel Tier 4	36	0.45
SF - Central - 30	Portable, 90 Kw, Diesel, 158HP	Welders	74	186	<1	Diesel Tier 4	158	0.45
SF - Central - 30	Vibro Driver/Extractor V208	Other Construc	390	186	2.1	Diesel	325	0.42
SF - Central - 30	Water Pump, 4" Diesel	Pumps	32.3	186	0.2	Diesel	10	0.74
SF - Central - 30	Water Pump, 6" Diesel	Pumps	137.5	186	0.7	Diesel	13	0.74
SF - Central - 31	400A Diesel Welder, Trailer Mounted	Welders	1402.1	676	2.1	Diesel	22	0.45
SF - Central - 31	Air Compressor 1600 cfm	Air Compresso	683.4	676	1.0	Diesel Tier 4	540	0.48
SF - Central - 31	Air Compressor 185 cfm	Air Compresso	350	676	0.5	Diesel Tier 4	49	0.48
SF - Central - 31	Air Compressor 375 cfm	Air Compresso	2704	676	4	Diesel Tier 4	122	0.48
SF - Central - 31	Bentonite Mix Plant/Desander	Cement & Mor	3481.1	676	5.1	Diesel Tier 4	100	0.56
SF - Central - 31	Boom Truck, 12.5 Tn Boom	Crane	175	676	0.3	Diesel or Hybrid	100	0.29
SF - Central - 31	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired L	7727.3	676	11.4	Diesel	110	0.36
SF - Central - 31	CAT 14 M	Grader	215.4	676	0.3	Diesel	274	0.41
SF - Central - 31	CAT 390 MASS EXC	Excavator	4091.1	676	6.1	Diesel	534	0.38
SF - Central - 31	CAT 950 H Wheel Loader	Rubber Tired L	33.3	676	0.0	Diesel or Hybrid	130	0.36
SF - Central - 31	CAT 962 H Wheel Loader	Rubber Tired L	3481.1	676	5.1	Diesel	230	0.36
SF - Central - 31	CAT 973 Track Loader, 4.2 cy, 263hp	Skid Loader	244	676	0.4	Diesel or Hybrid	210	0.37
SF - Central - 31	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	35.3	676	0.1	Diesel	158	0.38
SF - Central - 31	CAT D6LGPDozer w winch	Crawler	3481.1	676	5.1	Diesel or Hybrid	179	0.43
SF - Central - 31	CAT D3 LGP, Dozer	Tractor Crawler	33.3	676	0.0	Diesel or Hybrid	76	0.43
SF - Central - 31	CAT D8Rii, Dozer w winch	Tractor Crawler	410.8	676	0.6	Diesel	310	0.43
SF - Central - 31	Concrete Vibrator, 2"	Other Construc	4622.9	676	6.8	Gasoline	3	0.42
SF - Central - 31	DMM Deep Soil Mixer, 3 Shaft, 808 HP	Bore Drill Rig	676	676	1	Diesel	522	0.5
SF - Central - 31	DMM Grout Mix Plant w Delivery Pump	Other Industrie	676	676	1	Diesel	500	0.34
SF - Central - 31	Grove RT Crane 30T	Crane	676	676	1	Diesel	160	0.29
SF - Central - 31	Grove RT Crane 55T, 247 hp	Crane	472.5	676	0.7	Diesel	247	0.29
SF - Central - 31	Grove RT Crane 80T, 275hp	Crane	3811.3	676	5.6	Diesel	275	0.29
SF - Central - 31	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	815.4	676	1.2	Diesel	384	0.38
SF - Central - 31	Manitowoc 555 150T, 250' Boom	Crane	324	676	0.5	Diesel	760	0.29
SF - Central - 31	Manitowoc 999-275 Ton Crane	Crane	603.4	676	0.9	Diesel	900	0.29
SF - Central - 31	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	175	676	0.3	Diesel	75	0.31
SF - Central - 31	Portable, 90 Kw, Diesel, 158HP	Welders	30	676	<1	Diesel Tier 4	158	0.45
SF - Central - 31	Water Pump, 6" Diesel	Pumps	3481.1	676	5.1	Diesel	13	0.74
SF - Central - 31	Water Pump, 4" Diesel	Pumps	62.3	676	0.1	Diesel	10	0.74
SF - Central - 31	Well Drill	Bore/Drill Rigs	200	676	0.3	Diesel	136	0.5
SF - Central - 32	400A Diesel Welder, Trailer Mounted	Welders	948.9	97	9.8	Diesel	22	0.45
SF - Central - 32	Air Compressor 185 cfm	Air Compresso	500	97	5.2	Diesel Tier 4	49	0.48
SF - Central - 32	Air Compressor 375 cfm	Air Compresso	60	97	0.6	Diesel Tier 4	122	0.48
SF - Central - 32	Boom Truck, 12.5 Tn Boom	Crane	616.1	97	6.4	Diesel or Hybrid	100	0.29
SF - Central - 32	CAT IT28H, 10640 LB Tool Carrier	Rubber Tired L	222.2	97	2.3	Diesel	145	0.36
SF - Central - 32	Grove RT Crane 30T	Crane	500	97	5.2	Diesel	160	0.29
SF - Central - 32	Grove RT Crane 15T, 100hp	Crane	116.1	97	1.2	Diesel	100	0.29
SF - Central - 32	Grove RT Crane 80T, 275hp	Crane	1018	97	10.5	Diesel	275	0.29
SF - Central - 32	Manitowoc 555 150T, 250' Boom	Crane	237.2	97	2.4	Diesel	760	0.29
SF - Central - 32	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	500	97	5.2	Diesel	75	0.31
SF - Central - 33	Air Compressor 375 cfm	Air Compresso	5680	255	22.3	Diesel Tier 4	122	0.48
SF - Central - 33	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired L	5680	255	22.3	Diesel	110	0.36
SF - Central - 33	CAT 825, Roller	Roller	324	255	1.3	Diesel	315	0.38
SF - Central - 33	CAT 980 H Wheel Loader	Rubber Tired L	324	255	1.3	Diesel	393	0.36
SF - Central - 33	CAT CB-634D Vibratory 84"	Rollers	324	255	1.3	Diesel	145	0.38
SF - Central - 33	CAT D8 Dozer	Crawler	324	255	1.3	Diesel	328	0.43
SF - Central - 33	CAT Forklift 5,500 LB	Aerial Lift	800	255	3.1	Diesel	63	0.31
SF - Central - 33	CAT Grader 16H	Graders	324	255	1.3	Diesel	285	0.41
SF - Central - 33	DMM Deep Soil Mixer, 3 Shaft,	Bore Drill Rig	2550	255	10	Diesel	522	0.5
SF - Central - 33	DMM Grout Mix Plant w Delivery Pump	Other Industrie	5680	255	22.3	Diesel	500	0.34
SF - Central - 33	Grove RT Crane 30T	Crane	5680	255	22.3	Diesel	160	0.29
SF - Central - 33	Hydraulic 40 Ton Crane	Crane	800	255	3.1	Diesel	300	0.29
SF - Central - 33	Hydraulic 9 Ton Crane	Crane	2201	255	8.6	Diesel	85	0.29
SF - Central - 33	Portable, 90 Kw, Diesel, 158HP	Welders	510	255	2	Diesel Tier 4	158	0.45
SF - Central - 34	Air Compressor 1600 cfm	Air Compresso	639	747	0.9	Diesel Tier 4	540	0.48
SF - Central - 34	250 CFM Compressor Diesel	Air Compresso	146	747	0.2	Diesel Tier 3	75	0.74
SF - Central - 34	CAT 950 H Wheel Loader	Rubber Tired L	1028.6	747	1.4	Diesel or Hybrid	130	0.36
SF - Central - 34	CAT CB-634D Vibratory 84"	Rollers	3090	747	4.1	Diesel	145	0.38
SF - Central - 34	CAT D8 Dozer	Crawler	3090	747	4.1	Diesel	328	0.43
SF - Central - 34	CAT Forklift 5,500 LB	Aerial Lift	16	747	0.0	Diesel	63	0.31
SF - Central - 34	CAT Grader 16H	Graders	3090	747	4.1	Diesel	285	0.41
SF - Central - 34	CAT Hyd Excavator 1CY	Excavator	785.2	747	1.1	Diesel	138	0.38
SF - Central - 34	Hydraulic 40 Ton Crane	Crane	304.6	747	0.4	Diesel	300	0.29
SF - Central - 34	Hydraulic 9 Ton Crane	Crane	16	747	0.0	Diesel	85	0.29
SF - Central - 34	Hydraulic 55 Ton Crane	Crane	1278	747	1.7	Diesel	350	0.29
SF - Central - 34	Manitowoc 777 200 Ton Crane	Crane	2365	747	3.2	Diesel	760	0.29
SF - Central - 34	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mor	639	747	1	Diesel	8	0.56
SF - Central - 34	Slurry Wall Techniwell	Pumps	639	747	1	Diesel	500	0.74
SF - Central - 35	150 KW Diesel Generator	Generator	100	90	1.1	Diesel Tier 4	183	0.74
SF - Central - 35	Air Compressor 1600 cfm	Air Compresso	160	90	1.8	Diesel Tier 4	540	0.48
SF - Central - 35	250 CFM Compressor Diesel	Air Compresso	1647.3	90	18.3	Diesel Tier 3	75	0.74
SF - Central - 35	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	368	90	4.1	Diesel Tier 4	210	0.38
SF - Central - 35	Water Pump, 6" Diesel	Pumps	400	90	4.4	Diesel	13	0.74
SF - Central - 35	Hydraulic 40 Ton Crane	Crane	760	90	8.4	Diesel	300	0.29
SF - Central - 35	Manitowoc 777 200 Ton Crane	Crane	922.9	90	10.3	Diesel	760	0.29
SF - Central - 35	Manitowoc 999-275 Ton Crane	Crane	393.6	90	4.4	Diesel	900	0.29
SF - Central - 35	Telescope RT Forklift 5500	Forklift	160	90	1.8	Diesel	63	0.2
SF - Central - 35	Truck Crane Lattice Boom 90T	Crane	160	90	1.8	Diesel Tier 4	300	0.29
SF - Central - 36	250 CFM Compressor Diesel	Air Compresso	5103.9	313	16.3	Diesel Tier 3	75	0.74
SF - Central - 36	CAT 988 H Wheel Loader	Rubber Tired L	2300	313	7.3	Diesel	400	0.36
SF - Central - 36	CAT D8 Dozer	Crawler	2300	313	7.3	Diesel	328	0.43

SF - Central - 36	CAT Forklift 5,500 LB	Aerial Lift	2590	313	8.3	Diesel	63	0.31
SF - Central - 36	Hydraulic 40 Ton Crane	Crane	2990	313	9.6	Diesel	300	0.29
SF - Central - 36	Hydraulic 9 Ton Crane	Crane	2590	313	8.3	Diesel	85	0.29
SF - Central - 37	Air Compressor 1600 cfm	Air Compresso	100	38	2.6	Diesel Tier 4	540	0.48
SF - Central - 37	Hydraulic 40 Ton Crane	Crane	100	38	2.6	Diesel	300	0.29
SF - Central - 37	Hydraulic 55 Ton Crane	Crane	715	38	18.8	Diesel	350	0.29
SF - Central - 37	Manitowoc 777 200 Ton Crane	Crane	715	38	18.8	Diesel	760	0.29
SF - Central - 37	Telescope RT Forklift 5500	Forklift	424	38	11.2	Diesel	63	0.2
SF - Central - 37	Truck Crane Lattice Boom 90T	Crane	100	38	2.6	Diesel Tier 4	300	0.29
SF - Central - 38	150 KW Diesel Generator	Generator	100	391	0.3	Diesel Tier 4	183	0.74
SF - Central - 38	Air Compressor 1600 cfm	Air Compresso	639	391	1.6	Diesel Tier 4	540	0.48
SF - Central - 38	250 CFM Compressor Diesel	Air Compresso	146	391	0.4	Diesel Tier 3	75	0.74
SF - Central - 38	Air Compressor 375 cfm	Air Compresso	2133	391	5.5	Diesel Tier 4	122	0.48
SF - Central - 38	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired L	2133	391	5.5	Diesel	110	0.36
SF - Central - 38	CAT 950 H Wheel Loader	Rubber Tired L	1028.6	391	2.6	Diesel or Hybrid	130	0.36
SF - Central - 38	CAT CB-634D Vibratory 84"	Rollers	3090	391	7.9	Diesel	145	0.38
SF - Central - 38	CAT D8 Dozer	Crawler	3090	391	7.9	Diesel	328	0.43
SF - Central - 38	CAT Forklift 5,500 LB	Aerial Lift	16	391	0.0	Diesel	63	0.31
SF - Central - 38	CAT Grader 16H	Graders	3090	391	7.9	Diesel	285	0.41
SF - Central - 38	CAT Hyd Excavator 1CY	Excavator	405.6	391	1.0	Diesel	138	0.38
SF - Central - 38	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	1278	391	3.3	Diesel Tier 4	210	0.38
SF - Central - 38	Water Pump, 6" Diesel	Pumps	400	391	1.0	Diesel	13	0.74
SF - Central - 38	DMM Deep Soil Mixer, 3 Shaft,	Bore Drill Rig	2133	391	5.5	Diesel	522	0.5
SF - Central - 38	DMM Grout Mix Plant w Delivery Pump	Other Industri	2133	391	5.5	Diesel	500	0.34
SF - Central - 38	Grove RT Crane 30T	Crane	2133	391	5.5	Diesel	160	0.29
SF - Central - 38	Hydraulic 40 Ton Crane	Crane	304.6	391	0.8	Diesel	300	0.29
SF - Central - 38	Hydraulic 9 Ton Crane	Crane	116	391	0.3	Diesel	85	0.29
SF - Central - 38	Hydraulic 55 Ton Crane	Crane	1278	391	3.3	Diesel	350	0.29
SF - Central - 38	CAT Hyd Excavator 1CY	Excavator	380	391	1.0	Diesel	138	0.38
SF - Central - 38	Manitowoc 777 200 Ton Crane	Crane	1726	391	4.4	Diesel	760	0.29
SF - Central - 38	Manitowoc 200 Ton Crane	Crane	639	391	1.6	Diesel	760	0.29
SF - Central - 38	Portable, 90 Kw, Diesel, 158HP	Welders	390	391	1	Diesel Tier 4	158	0.45
SF - Central - 38	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mor	639	391	2	Diesel	8	0.56
SF - Central - 38	Slurry Wall Techniwell	Pumps	639	391	2	Diesel	500	0.74
SF - Central - 39	Air Compressor 1600 cfm	Air Compresso	160	460	0.3	Diesel Tier 4	540	0.48
SF - Central - 39	250 CFM Compressor Diesel	Air Compresso	1647.3	460	3.6	Diesel Tier 3	75	0.74
SF - Central - 39	Telescope RT Forklift 5500	Forklift	160	460	0.3	Diesel	63	0.2
SF - Central - 39	Truck Crane Lattice Boom 90T	Crane	160	460	0.3	Diesel Tier 4	300	0.29
SF - Central - 39	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	368	460	0.0	Diesel Tier 4	210	0.38
SF - Central - 39	Hydraulic 40 Ton Crane	Crane	660	460	1.4	Diesel	300	0.29
SF - Central - 39	Manitowoc 777 200 Ton Crane	Crane	922.9	460	2.0	Diesel	760	0.29
SF - Central - 39	Manitowoc 999-275 Ton Crane	Crane	393.6	460	0.9	Diesel	900	0.29
SF - Central - 40	250 CFM Compressor Diesel	Air Compresso	5115.3	345	14.8	Diesel Tier 3	75	0.74
SF - Central - 40	CAT 988 H Wheel Loader	Rubber Tired L	2305	345	6.7	Diesel	400	0.36
SF - Central - 40	CAT D8 Dozer	Crawler	2305	345	6.7	Diesel	328	0.43
SF - Central - 40	CAT Forklift 5,500 LB	Aerial Lift	2504	345	7.3	Diesel	63	0.31
SF - Central - 40	Hydraulic 40 Ton Crane	Crane	2904	345	8.4	Diesel	300	0.29
SF - Central - 40	Hydraulic 9 Ton Crane	Crane	2504	345	7.3	Diesel	85	0.29
SF - Central - 41	Air Compressor 1600 cfm	Air Compresso	100	37	2.7	Diesel Tier 4	540	0.48
SF - Central - 41	Hydraulic 40 Ton Crane	Crane	100	37	2.7	Diesel	300	0.29
SF - Central - 41	Hydraulic 55 Ton Crane	Crane	715	37	19.3	Diesel	350	0.29
SF - Central - 41	Manitowoc 777 200 Ton Crane	Crane	715	37	19.3	Diesel	760	0.29
SF - Central - 41	Telescope RT Forklift 5500	Forklift	424	37	11.5	Diesel	63	0.2
SF - Central - 41	Truck Crane Lattice Boom 90T	Crane	100	37	2.7	Diesel Tier 4	300	0.29
SF - Central - 42	Air Compressor 375 cfm	Air Compresso	3547	1566	2.3	Diesel Tier 4	122	0.48
SF - Central - 42	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired L	3547	1566	2.3	Diesel	110	0.36
SF - Central - 42	CAT 825, Roller	Roller	202	1566	0.1	Diesel	315	0.38
SF - Central - 42	CAT 980 H Wheel Loader	Rubber Tired L	202	1566	0.1	Diesel	393	0.36
SF - Central - 42	CAT CB-634D Vibratory 84"	Rollers	4054.4	1566	2.6	Diesel	145	0.38
SF - Central - 42	CAT D8 Dozer	Crawler	4054.7	1566	2.6	Diesel	328	0.43
SF - Central - 42	CAT Forklift 5,500 LB	Aerial Lift	400	1566	0.3	Diesel	63	0.31
SF - Central - 42	CAT Grader 16H	Graders	3852.4	1566	2.5	Diesel	285	0.41
SF - Central - 42	DMM Deep Soil Mixer, 3 Shaft	Bore Drill Righ	3547	1566	2.3	Diesel	522	0.5
SF - Central - 42	DMM Grout Mix Plant w Delivery Pump	Other Industri	3547	1566	2.3	Diesel	500	0.34
SF - Central - 42	Grove RT Crane 30T	Crane	3547	1566	2.3	Diesel	160	0.29
SF - Central - 42	Hydraulic 40 Ton Crane	Crane	400	1566	0.3	Diesel	300	0.29
SF - Central - 42	Hydraulic 9 Ton Crane	Crane	463	1566	0.3	Diesel	85	0.29
SF - Central - 42	Portable, 90 Kw, Diesel, 158HP	Welders	700	1566	<1	Diesel Tier 4	158	0.45
SF - Central - 43	150 KW Diesel Generator	Generator	95.7	239	0.4	Diesel Tier 4	183	0.74
SF - Central - 43	Air Compressor 1600 cfm	Air Compresso	611.2	239	2.6	Diesel Tier 4	540	0.48
SF - Central - 43	250 CFM Compressor Diesel	Air Compresso	139.7	239	0.6	Diesel Tier 3	75	0.74
SF - Central - 43	CAT 825, Roller	Roller	116.7	239	0.5	Diesel	315	0.38
SF - Central - 43	CAT 950 H Wheel Loader	Rubber Tired L	983.9	239	4.1	Diesel or Hybrid	130	0.36
SF - Central - 43	CAT 980 H Wheel Loader	Rubber Tired L	116.7	239	0.5	Diesel	393	0.36
SF - Central - 43	CAT CB-634D Vibratory 84"	Rollers	116.7	239	0.5	Diesel	145	0.38
SF - Central - 43	CAT D8 Dozer	Crawler	116.7	239	0.5	Diesel	328	0.43
SF - Central - 43	CAT Forklift 5,500 LB	Aerial Lift	15.3	239	0.1	Diesel	63	0.31
SF - Central - 43	CAT Grader 16H	Graders	116.7	239	0.5	Diesel	285	0.41
SF - Central - 43	CAT Hyd Excavator 1CY	Excavator	388	239	1.6	Diesel	138	0.38
SF - Central - 43	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	1577.4	239	6.6	Diesel Tier 4	210	0.38
SF - Central - 43	Water Pump, 6" Diesel	Pumps	382.6	239	1.6	Diesel	13	0.74
SF - Central - 43	Hydraulic 40 Ton Crane	Crane	101.4	239	0.4	Diesel	300	0.29
SF - Central - 43	Hydraulic 9 Ton Crane	Crane	829.2	239	3.5	Diesel	85	0.29
SF - Central - 43	Hydraulic 55 Ton Crane	Crane	1201	239	5.0	Diesel	350	0.29
SF - Central - 43	CAT Hyd Excavator 1CY	Excavator	363.5	239	1.5	Diesel	138	0.38
SF - Central - 43	Manitowoc 200 Ton Crane	Crane	537.6	239	2.2	Diesel	760	0.29
SF - Central - 43	Manitowoc 777 200 Ton Crane	Crane	1445.4	239	6.0	Diesel	760	0.29
SF - Central - 43	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mor	611.2	239	3	Diesel	8	0.56

SF - Central - 43	Slurry Wall Techniwell	Pumps	611.2	239	3	Diesel	500	0.74
SF - Central - 44	250 CFM Compressor Diesel	Air Compresso	965.9	101	9.6	Diesel Tier 3	75	0.74
SF - Central - 44	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	324.2	101	0.0	Diesel Tier 4	210	0.38
SF - Central - 44	Manitowoc 777 200 Ton Crane	Crane	829	101	8.2	Diesel	760	0.29
SF - Central - 44	Manitowoc 999-275 Ton Crane	Crane	306.1	101	3.0	Diesel	900	0.29
SF - Central - 45	CAT 631G Scraper, Conventional	Scraper	73.4	166	0.4	Diesel	515	0.48
SF - Central - 45	CAT 980 H Wheel Loader	Rubber Tired L	1276.6	166	7.7	Diesel	393	0.36
SF - Central - 45	CAT CB-634D Vibratory 84"	Rollers	2901.1	166	17.5	Diesel	145	0.38
SF - Central - 45	CAT D8 Dozer	Crawler	4214.4	166	25.4	Diesel	328	0.43
SF - Central - 45	CAT Grader 16H	Graders	4177.7	166	25.2	Diesel	285	0.41
SF - Central - 46	150 KW Diesel Generator	Generator	95.7	442	0	Diesel Tier 4	183	0.74
SF - Central - 46	Air Compressor 1600 cfm	Air Compresso	611.2	442	1.4	Diesel Tier 4	540	0.48
SF - Central - 46	250 CFM Compressor Diesel	Air Compresso	139.7	442	0.3	Diesel Tier 3	75	0.74
SF - Central - 46	CAT 950 H Wheel Loader	Rubber Tired L	983.9	442	2.2	Diesel or Hybrid	130	0.36
SF - Central - 46	CAT CB-634D Vibratory 84"	Rollers	3445	442	7.8	Diesel	145	0.38
SF - Central - 46	CAT D8 Dozer	Crawler	3445	442	7.8	Diesel	328	0.43
SF - Central - 46	CAT Forklift 5,500 LB	Aerial Lift	91.8	442	0.2	Diesel	63	0.31
SF - Central - 46	CAT Grader 16H	Graders	3445	442	7.8	Diesel	285	0.41
SF - Central - 46	CAT Hyd Excavator 1CY	Excavator	388	442	0.9	Diesel	138	0.38
SF - Central - 46	Water Pump, 6" Diesel	Pumps	382.6	442	0.9	Diesel	13	0.74
SF - Central - 46	Hydraulic 40 Ton Crane	Crane	367.9	442	0.8	Diesel	300	0.29
SF - Central - 46	Hydraulic 9 Ton Crane	Crane	187.5	442	0.4	Diesel	85	0.29
SF - Central - 46	Hydraulic 55 Ton Crane	Crane	1148.8	442	2.6	Diesel	350	0.29
SF - Central - 46	CAT Hyd Excavator 1CY	Excavator	363.5	442	0.8	Diesel	138	0.38
SF - Central - 46	Manitowoc 200 Ton Crane	Crane	537.6	442	1.2	Diesel	760	0.29
SF - Central - 46	Manitowoc 777 200 Ton Crane	Crane	1445.6	442	3.3	Diesel	760	0.29
SF - Central - 46	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mor	611.2	442	1	Diesel	8	0.56
SF - Central - 46	Slurry Wall Techniwell	Pumps	611.2	442	1	Diesel	500	0.74
SF - Central - 47	Air Compressor 1600 cfm	Air Compresso	160	106	1.5	Diesel Tier 4	540	0.48
SF - Central - 47	250 CFM Compressor Diesel	Air Compresso	923.9	106	8.7	Diesel Tier 3	75	0.74
SF - Central - 47	Hydraulic 40 Ton Crane	Crane	160	106	1.5	Diesel	300	0.29
SF - Central - 47	Manitowoc 777 200 Ton Crane	Crane	792.9	106	7.5	Diesel	760	0.29
SF - Central - 47	Manitowoc 999-275 Ton Crane	Crane	292.8	106	2.8	Diesel	900	0.29
SF - Central - 47	Telescope RT Forklift 5500	Forklift	160	106	1.5	Diesel	63	0.2
SF - Central - 47	Truck Crane Lattice Boom 90T	Crane	160	106	1.5	Diesel Tier 4	300	0.29
SF - Central - 48	250 CFM Compressor Diesel	Air Compresso	17081.1	1342	12.7	Diesel Tier 3	75	0.74
SF - Central - 48	CAT 988 H Wheel Loader	Rubber Tired L	3651.2	1342	2.7	Diesel	400	0.36
SF - Central - 48	CAT D8 Dozer	Crawler	3651.2	1342	2.7	Diesel	328	0.43
SF - Central - 48	CAT Forklift 5,500 LB	Aerial Lift	8780.9	1342	6.5	Diesel	63	0.31
SF - Central - 48	Hydraulic 40 Ton Crane	Crane	9536.9	1342	7.1	Diesel	300	0.29
SF - Central - 48	Hydraulic 9 Ton Crane	Crane	8780.9	1342	6.5	Diesel	85	0.29
SF - Central - 48	Manitowoc 777 200 Ton Crane	Crane	336	1342	0.3	Diesel	760	0.29
SF - Central - 49	400A Diesel Welder, Trailer Mounted	Welders	100	70	1.4	Diesel	22	0.45
SF - Central - 49	Air Compressor 1600 cfm	Air Compresso	100	70	1.4	Diesel Tier 4	540	0.48
SF - Central - 49	CAT Forklift 5,500 LB	Aerial Lift	285.1	70	4.1	Diesel	63	0.31
SF - Central - 49	Hydraulic 9 Ton Crane	Crane	76.5	70	1.1	Diesel	85	0.29
SF - Central - 49	Hydraulic 40 Ton Crane	Crane	176.5	70	2.5	Diesel	300	0.29
SF - Central - 49	Hydraulic 55 Ton Crane	Crane	923.6	70	13.2	Diesel	350	0.29
SF - Central - 49	Manitowoc 777 200 Ton Crane	Crane	715	70	10.2	Diesel	760	0.29
SF - Central - 49	Telescope RT Forklift 5500	Forklift	667.3	70	9.5	Diesel	63	0.2
SF - Central - 49	Truck Crane Lattice Boom 90T	Crane	100	70	1.4	Diesel Tier 4	300	0.29
SF - Central - 50	Air Compressor 1600 cfm	Air Compresso	384	40	9.6	Diesel Tier 4	540	0.48
SF - Central - 50	Boom Truck, 12.5 Tn Boom	Crane	192	40	4.8	Diesel or Hybrid	100	0.29
SF - Central - 50	Grove RT Crane 80T, 275hp	Crane	384	40	9.6	Diesel	275	0.29
SF - Central - 50	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	192	40	4.8	Diesel	75	0.31
SF - Central - 51	Air Compressor 1600 cfm	Air Compresso	400	85	4.7	Diesel Tier 4	540	0.48
SF - Central - 51	Boom Truck, 12.5 Tn Boom	Crane	200	85	2.4	Diesel or Hybrid	100	0.29
SF - Central - 51	Grove RT Crane 80T, 275hp	Crane	400	85	4.7	Diesel	275	0.29
SF - Central - 51	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	200	85	2.4	Diesel	75	0.31
SF - Central - 52	400A Diesel Welder, Trailer Mounted	Welders	3421	2205	1.6	Diesel	22	0.45
SF - Central - 52	Bobcat S630 Skid Steer Loader	Skid Loader	17104.9	2205	7.8	Diesel	74	0.37
SF - Central - 52	CAT 962 H Wheel Loader	Rubber Tired L	34440.5	2205	15.6	Diesel	230	0.36
SF - Central - 52	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	8287.3	2205	3.8	Diesel Tier 4	210	0.38
SF - Central - 52	Portable, 300 Kw, Diesel, 36HP	Welders	34209.7	2205	15.5	Diesel Tier 4	400	0.45
SF - Central - 53	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	101	12	8	Diesel or Hybrid	224	0.42
SF - Central - 53	Asphalt Rollier, 2 Drum 12tn, 137hp	Roller	101	12	8	Diesel or Hybrid	137	0.38
SF - Central - 53	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	101	12	8	Diesel or Hybrid	133	0.38
SF - Central - 53	CAT LOADER/HOE 416 E	Rubber Tired L	101	12	8.4	Diesel	78	0.36
SF - Central - 54	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	101	11	9	Diesel or Hybrid	224	0.42
SF - Central - 54	Asphalt Rollier, 2 Drum 12tn, 137hp	Roller	101	11	9	Diesel or Hybrid	137	0.38
SF - Central - 54	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	101	11	9	Diesel or Hybrid	133	0.38
SF - Central - 54	CAT LOADER/HOE 416 E	Rubber Tired L	101	11	9.2	Diesel	78	0.36
SF - Central - 55	CAT 12 M	Grader	210	255	0.8	Diesel	173	0.41
SF - Central - 55	CAT 390 MASS EXC	Excavator	200	255	0.8	Diesel	534	0.38
SF - Central - 55	CAT D8Rii, Dozer w winch	Crawler	2000	255	7.8	Diesel	310	0.43
SF - Central - 55	CAT 631G Scraper, Conventional	Scraper	2000	255	7.8	Diesel	515	0.48
SF - Central - 55	Disk, Towed	Off Highway	320	255	1.3	Diesel	140	0.44
SF - Central - 55	CAT 966 Gil Wheel Loader	Rubber Tired L	40	255	0.2	Diesel	286	0.36
SF - Central - 55	CAT D9R, Dozer w ripper	Crawler	1180	255	4.6	Diesel	410	0.43
SF - Central - 55	Farm Tractor, All Wheel Drive, 80 HP	Tractor	640	255	2.5	Diesel	80	0.44
SF - Central - 55	Hydro Mulcher, 18 HP	Pumps	120	255	0.5	Diesel	25	0.74

SF - Central - 55	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	1000	255	3.9	Diesel	345	0.38
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**Offroad Equipment (Electric) Inventory for Southern Complex on Byron Tract - Central
Option 5**

Electricity for TBM Operations included in the Summary Workbook

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
SF - Central - 1	400A, Electric Welder	8.9	208	15	0.642
SF - Central - 2	400A, Electric Welder	44.4	324	15	2.056
SF - Central - 3	Light Plant, 4 lite, 1000w	1864.4	253		
SF - Central - 4	Light Plant, 4 lite, 1000w	813.4	318		
SF - Central - 6	400A, Electric Welder	759.3	169	15	67.393
SF - Central - 6	Water Pump, 4" Electrical, Submersible	15187.2	169	1	89.865
SF - Central - 7	400A, Electric Welder	2815.9	500	15	84.477
SF - Central - 9	400A, Electric Welder	960	201	15	71.642
SF - Central - 9	Water Pump, 4" Electrical, Submersible	576	201	1	2.866
SF - Central - 10	Water Pump, 4" Electrical, Submersible	46.8	85	1	0.551
SF - Central - 11	400A, Electric Welder	890	293	15	45.563
SF - Central - 12	400A, Electric Welder	3251.8	721	15	67.652
SF - Central - 12	Water Pump, 4" Electrical, Submersible	7833.9	721	1	10.865
SF - Central - 13	400A, Electric Welder	4528.7	792	15	85.771
SF - Central - 13	Water Pump, 4" Electrical, Submersible	3867.4	792	1	4.883
SF - Central - 14	Water Pump, 4" Electrical, Submersible	6058.8	908	1	6.673
SF - Central - 14	Light Plant, 4 lite, 1000w	345.6	908		
SF - Central - 15B	400A, Electric Welder	861.4	142	15	90.993
SF - Central - 15B	Water Pump, 4" Electrical, Submersible	3445.7	142	1	24.265
SF - Central - 16	400A, Electric Welder	1100.8	147	15	112.327
SF - Central - 16	Water Pump, 4" Electrical, Submersible	578.1	147	1	3.933
SF - Central - 17	400A, Electric Welder	77.7	31	15	37.597
SF - Central - 17	Water Pump, 4" Electrical, Submersible	155.4	31	1	5.013
SF - Central - 18	400A, Electric Welder	0.2	28	15	0.107
SF - Central - 18	Water Pump, 4" Electrical, Submersible	84.7	28	1	3.025
SF - Central - 19	400A, Electric Welder	775.6	317	15	36.700
SF - Central - 19	Water Pump, 4" Electrical, Submersible	1551.2	317	1	4.893
SF - Central - 19	Light Plant, 4 lite, 1000w	12.7	317		
SF - Central - 20	400A, Electric Welder	5817.9	679	15	128.525
SF - Central - 20	Water Pump, 4" Electrical, Submersible	4242.8	679	1	6.249
SF - Central - 21	400A, Electric Welder	3200	878	15	54.670
SF - Central - 23	400A, Electric Welder	120.5	222	15	8.142
SF - Central - 26	Water Pump, 4" Electrical, Submersible	20738.5	1356	1	15.294
SF - Central - 26	Light Plant, 4 lite, 1000w	124751	1356		
SF - Central - 29	Water Pump, 6" Electrical, Submersible	535.4	187	1	2.863
SF - Central - 30	Water Pump, 4" Electrical, Submersible	1173	186	1	6.306
SF - Central - 30	Water Pump, 6" Electrical, Submersible	38	186	1	0.204
SF - Central - 30	Light Plant, 4 lite, 1000w400A, Electric Welder	1077.7	186		
SF - Central - 31	Water Pump, 4" Electrical, Submersible	350	676	15	7.766
SF - Central - 31	Water Pump, 4" Electrical, Submersible	21569.1	676	1	31.907
SF - Central - 31	Water Pump, 6" Electrical, Submersible	506.6	676	1	0.749
SF - Central - 32	400A, Electric Welder	500	97	15	77.320
SF - Central - 33	Water Pump, 4" Electrical, Submersible	5680	255	1	22.275
SF - Central - 35	Gantry Crane	500	90	0.25	1
SF - Central - 36	Axial Fan 114,000 CFM	18465	313	50	2,950
SF - Central - 36	Gantry Crane	9170	313	0.25	7
SF - Central - 38	Water Pump, 4" Electrical, Submersible	2133	391	1	5.455

SF - Central - 39	Gantry Crane	500	460	0.25	0
SF - Central - 40	Axial Fan 114,000 CFM	18491	345	50	2,680
SF - Central - 40	Gantry Crane	9181	345	0.25	7
SF - Central - 41	Gantry Crane	237	37	0.25	2
SF - Central - 42	Water Pump, 4" Electrical, Submersible	3547	1566	1	2.265
SF - Central-46	Concrete Pump 100 cy/hr	1315			
SF - Central - 48	Axial Fan 114,000 CFM	131474.2	1342	50	4,898
SF - Central - 48	Gantry Crane	28849.2	1342	0.25	5
SF - Central - 49	Gantry Crane	775.9	70	0.25	3
SF - Central - 50	400A, Electric Welder	384	40	15	144.000
SF - Central - 51	400A, Electric Welder	400	85	15	70.588

Vehicle Inventory for Southern Complex on Byron Tract - Central

Option 5

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs.)	# day	Vehicle Hours	Hours/Trip	# of Vehicles/trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/hr)
Vehicle Use on Paved Roads --- and Not on Construction Site												
SF - Central - 1	Pickup 1/2T 2 WD	Materials from Stockton	208	3208.9	1.1	3008	14.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 1	Pickup, 3/4T, 4wd	Materials from Stockton	208	3200.0	1.1	3000	14.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 1	Truck Flatbed 4 T Highway	Materials from Stockton	208	799.7	1.1	750	3.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 1	Truck Flatbed 4 T Highway	Two Cranes and one lift from Stockton	1	3.2	1.1	3	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 2	Pickup 1/2T 2 WD	Materials from Stockton	324	16044.4	1.1	15042	46.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 2	Pickup, 3/4T, 4wd	Materials from Stockton	324	16000.0	1.1	15000	46.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 2	Truck Flatbed 4 T Highway	Materials from Stockton	324	4000.3	1.1	3750	11.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 3	Pickup 1/2T 2 WD	Materials from Stockton	253	2480.0	1.1	2325	9.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 3	Pickup, 3/4T, 4wd	Materials from Stockton	253	620.2	1.1	581	2.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 3	Truck End Dump/ 10-13cy Hwy	Materials from Stockton	253	378.7	1.1	355	1.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 3	Truck Flatbed 4 T Highway	Cone, Two Rollers, two Loaders, Tractor, Grader, and Excavator	1	8.5	1.1	8	8.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 4	Pickup 1/2T 2 WD	Materials from Stockton	318	1761.3	1.1	1651	5.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 4	Pickup, 3/4T, 4wd	Materials from Stockton	318	545.3	1.1	511	1.6	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 4	Truck End Dump/ 10-13cy Hwy	Materials from Stockton	318	407.3	1.1	382	1.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 4	Truck Flatbed 4 T Highway	Materials from Stockton	318	1424.2	1.1	1335	4.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 4	Truck, Flatbed, 10T, Hwy	Materials from Stockton	318	30.4	1.1	29	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 4	Truck Flatbed 4 T Highway	Materials from Stockton	318	2511.2	1.1	2373	7.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 4	Truck End Dump/ 10-20cy Hwy	Base Rock and Gravel from Vernalis	318	968.8	0.7	1384	4	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Central - 4	Truck Flatbed 4 T Highway	One Roller and one Crane from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 4	Truck Flatbed 4 T Highway	Asphalt Paver and 2 Rollers from and to Stockton	2	6.4	1.1	6	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 5	Pickup 1/2T 2 WD	Materials from Stockton	21	153.6	1.1	144	6.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 5	Pickup, 3/4T, 4wd	Materials from Stockton	21	100.0	1.1	94	4.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 5	Truck End Dump/ 10-13cy Hwy	Materials from Stockton	21	307.2	1.1	288	13.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 5	Truck Flatbed 4 T Highway	Materials from Stockton	21	1261.9	1.1	1183	56.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 5	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	21	6.2	0.6	11	0.5	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel	
SF - Central - 5	Truck End Dump/ 10-20cy Hwy	Base Rock, Gravel, and Flyash from Vernalis	21	4202.0	0.7	6003	286	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Central - 5	Truck End Dump/ 10-13cy Hwy	Cement, Aggregate, and Sand from Stockton	21	279.9	1.1	262	12.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 5	Truck End Dump/ 21cy 30T	Asphalt, Hot Mix Delivered from Vernalis	21	153	0.7	219	10.4	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel Tier 4	
SF - Central - 5	Truck Flatbed 4 T Highway	Two Loaders and Tractor from Stockton	1	3.2	1.1	3	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 6	Mechanics Truck	Materials from Stockton	169	15187.2	1.1	14238	84	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 6	Pickup 1/2T 2 WD	Materials from Stockton	169	15946.5	1.1	14950	88.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 6	Truck Flatbed 4 T Highway	Materials from Stockton	169	15187.2	1.1	14238	84.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 6	Truck Flatbed 4 T Highway	Materials from Stockton	169	115.2	1.1	108	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 6	Truck Flatbed 4 T Highway	One Loader from Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 7	Pickup 1/2T 2 WD	Materials from Stockton	500	2892.7	1.1	2712	5.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 7	Truck End Dump/ 10-13cy Hwy	Materials from Stockton	500	192.0	1.1	180	0.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 7	Truck Flatbed 4 T Highway	Materials from Stockton	500	14976.0	1.1	14040	28.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 7	Truck Flatbed 4 T Highway	Materials from Stockton	500	385.1	1.1	361	0.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 7	Truck End Dump/ 10-20cy Hwy	Base Rock from Vernalis	500	7771.4	0.7	1102	22	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Central - 8	Truck Flatbed 4 T Highway	Materials from Stockton	1321	9984.0	1.1	9360	7.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 8	Truck Flatbed 10 T Highway	Materials from Stockton	1321	6877.6	1.1	6448	4.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 8	Truck End Dump/ 10-20cy Hwy	Base Rock, Gravel, and Flyash from Vernalis	1321	10095.4	0.7	14422	11	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Central - 8	Truck Flatbed 4 T Highway	Two Cranes from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 9	Pickup 1/2T 2 WD	Materials from Stockton	201	1534.4	1.1	1439	7.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 9	Pickup, 3/4T, 4wd	Materials from Stockton	201	80.0	1.1	75	0.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 9	Truck End Dump/ 10-13cy Hwy	Materials from Stockton	201	128.0	1.1	120	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 9	Truck Flatbed 4 T Highway	Materials from Stockton	201	256.0	1.1	240	1.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 9	Truck, Tractor, 75000#, 6 x 4	Materials from Stockton	201	38.4	1.1	36	0.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 9	Truck Flatbed 4 T Highway	Materials from Stockton	201	1043.2	1.1	978	4.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 9	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	201	132.1	0.6	586	2.9	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel	
SF - Central - 9	Truck End Dump/ 10-20cy Hwy	Gravel and Flyash from Vernalis	201	1857.8	0.7	2654	13	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Central - 9	Truck End Dump/ 10-13cy Hwy	Cement, Aggregate, and Sand from Stockton	201	252.8	1.1	237	1.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 9	Truck Flatbed 4 T Highway	Loader and Crane from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 10	Truck, Flatbed, 10T, Hwy	Materials from Stockton	85	78.0	1.1	73	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 10	Pickup, 3/4T, 4wd	Materials from Stockton	85	71.2	1.1	67	0.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 10	Truck Flatbed 4 T Highway	Materials from Stockton	85	50.1	1.1	47	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 10	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	85	22.7	0.6	40	0.5	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel	
SF - Central - 10	Truck End Dump/ 10-20cy Hwy	Flyash from Vernalis	85	55.3	0.7	79	1	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Central - 10	Truck End Dump/ 10-13cy Hwy	Cement, Aggregate, and Sand from Stockton	85	2533.0	1.1	2375	27.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 11	Mechanics Truck	Materials from Stockton	293	8220.4	1.1	7707	26	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 11	Pickup 1/2T 2 WD	Materials from Stockton	293	8009.2	1.1	7503	25.6	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 11	Pickup, 3/4T, 4wd	Materials from Stockton	293	200.4	1.1	188	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 11	Truck Flatbed 4 T Highway	Materials from Stockton	293	8220.4	1.1	7707	26.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 11	Truck Flatbed 4 T Highway	Materials from Stockton	293	146.1	1.1	137	0.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 11	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	293	46.5	0.6	82	0.3	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel	
SF - Central - 11	Truck End Dump/ 10-20cy Hwy	Flyash from Vernalis	293	26.9	0.7	38	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Central - 11	Truck End Dump/ 10-13cy Hwy	Cement, Aggregate, and Sand from Stockton	293	1230.5	1.1	1154	3.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 12	Truck, Tractor, 75000#, 6 x 4	Materials from Stockton	721	8846.8	1.1	8294	11.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 12	Pickup 1/2T 2 WD	Materials from Stockton	721	10754.3	1.1	10082	14.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 12	Truck Flatbed 4 T Highway	Cone, Two Excavators, and Tractor from Stockton	1	4.3	1.1	4	4.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 13	Pickup 1/2T 2 WD	Materials from Stockton	792	6756.9	1.1	6335	8.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 13	Pickup, 3/4T, 4wd	Materials from Stockton	792	32.9	1.1	31	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 13	Truck Flatbed 4 T Highway	Materials from Stockton	792	2807.8	1.1	2632	3.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 13	Truck, Tractor, 75000#, 6 x 4	Materials from Stockton	792	1632.1	1.1	1530	1.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	

SF - Central - 13	Truck Flatbed 4 T Highway	Cane from Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 14	Pickup 1/2T 2 WD	Materials from Stockton	908	2299.5	1.1	2156	2.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 14	Truck Flatbed 4 T Highway	Materials from Stockton	908	196.4	1.1	184	0.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 14	Truck' End Dump' 10-13cy' Hwy	Cement, Aggregate, and Sand from Stockton	908	492.7	1.1	462	0.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 14	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	908	4.0	0.6	7	0.0	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 14	Truck' End Dump' 16-20cy' Hwy	Flyash from Vernalis	908	10.8	0.7	15	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 15A	Truck, Tractor, 75000#, 6 x 4	Materials from Stockton	263	1497.6	1.1	1404	5.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 15B	Pickup 1/2T 2 WD	Materials from Stockton	142	1521.9	1.1	1427	10.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 15B	Pickup, 3/4T, 4wd	Materials from Stockton	142	380.5	1.1	357	2.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 15B	Truck Flatbed 4 T Highway	Materials from Stockton	142	591.7	1.1	555	3.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 15B	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	142	202.7	1.1	190	1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 15B	Truck' End Dump' 10-13cy' Hwy	Cement, Aggregate, and Sand from Stockton	142	1230.4	1.1	1154	8.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 15B	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	142	46.5	0.6	82	0.6	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 15B	Truck' End Dump' 16-20cy' Hwy	Flyash from Vernalis	142	26.9	0.7	38	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 15B	Truck Flatbed 4 T Highway	Loader from Stockton	142	1.1	1.1	1	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 16	Pickup 1/2T 2 WD	Materials from Stockton	147	1100.8	1.1	1032	7.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 16	Pickup, 3/4T, 4wd	Materials from Stockton	147	72.3	1.1	68	0.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 16	Truck' End Dump' 16-20cy' Hwy	Flyash from Vernalis	147	22.0	0.7	31	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 17	Pickup 1/2T 2 WD	Materials from Stockton	31	1232.0	1.1	1155	37.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 17	Pickup, 3/4T, 4wd	Materials from Stockton	31	10.9	1.1	10	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 18	Pickup 1/2T 2 WD	Materials from Stockton	28	0.2	1.1	0	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 18	Pickup, 3/4T, 4wd	Materials from Stockton	28	24.2	1.1	23	0.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 18	Truck' End Dump' 10-13cy' Hwy	Cement, Aggregate, and Sand from Stockton	28	492.7	1.1	462	16.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 18	Truck' End Dump' 16-20cy' Hwy	Flyash from Vernalis	28	10.8	0.7	15	1	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 18	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	28	4.1	0.6	7	0.3	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 19	Pickup 1/2T 2 WD	Materials from Stockton	317	3495.5	1.1	3277	10.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 19	Pickup, 3/4T, 4wd	Materials from Stockton	317	509.2	1.1	477	1.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 19	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	317	173.1	1.1	162	1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 19	Truck' End Dump' 10-13cy' Hwy	Materials from Stockton	317	187.5	1.1	176	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 19	Truck Flatbed 4 T Highway	Materials from Stockton	317	316.8	1.1	297	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 19	Truck Flatbed 10 T Highway	Materials from Stockton	317	959.9	1.1	1369	4.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 19	Truck, Tractor, 75000#, 6 x 4	Materials from Stockton	317	115.4	1.1	108	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 19	Truck Flatbed 4 T Highway	Materials from Stockton	317	108.8	1.1	102	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 19	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	317	51.0	0.6	90	0.3	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 19	Truck' End Dump' 16-20cy' Hwy	Flyash from Vernalis	317	41.4	0.7	59	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 19	Truck' End Dump' 10-13cy' Hwy	Cement, Aggregate, and Sand from Stockton	317	1894.5	1.1	1776	5.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 20	Truck Flatbed 10 T Highway	Materials from Stockton	679	1863.9	1.1	1747	2.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 20	Truck, Tractor, 75000#, 6 x 4	Materials from Stockton	679	710.4	1.1	666	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 20	Truck' End Dump' 16-20cy' Hwy	Flyash from Vernalis	679	30.5	0.7	44	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 20	Truck' End Dump' 10-13cy' Hwy	Cement, Aggregate, and Sand from Stockton	679	1393.9	1.1	1307	1.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 21	Pickup 1/2T 2 WD	Materials from Stockton	878	3200.0	1.1	3000	3.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 22	Pickup 1/2T 2 WD	Materials from Stockton	269	2112.0	1.1	1980	7.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 22	Truck Flatbed 4 T Highway	Materials from Stockton	269	2016.0	1.1	1890	7.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 22	Truck Flatbed 10 T Highway	Materials from Stockton	269	96.0	1.1	90	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 22	Truck, Tractor, 75000#, 6 x 4	Materials from Stockton	269	240.0	1.1	225	0.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 22	Truck' End Dump' 16-20cy' Hwy	Flyash from Vernalis	269	18.3	0.7	26	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 22	Truck' End Dump' 10-13cy' Hwy	Cement, Aggregate, and Sand from Stockton	269	837.1	1.1	785	2.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 22	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	269	5.1	0.6	9	0.0	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 23	Pickup 1/2T 2 WD	Materials from Stockton	222	14561.4	1.1	13651	61.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 23	Pickup, 3/4T, 4wd	Materials from Stockton	222	208.8	1.1	196	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 23	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	222	13127.6	1.1	12307	55	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 23	Truck' End Dump' 10-13cy' Hwy	Materials from Stockton	222	302.4	1.1	284	1.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 23	Truck, Flatbed, 10T, Hwy	Materials from Stockton	222	39.6	1.1	37	0.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 23	Truck' End Dump' 16-20cy' Hwy	Base Rock from Vernalis	222	1579.2	0.7	2256	10	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 23	Truck Flatbed 4 T Highway	Cone, Grader, and Excavator to Stockton	1	3.2	1.1	3	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 24	Truck' End Dump' 10-13cy' Hwy	Materials from Stockton	183	1600.0	1.1	1500	8.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 24	Truck' End Dump' 10-13cy' Hwy	Base Rock from Vernalis	183	583.8	0.7	834	4.6	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 24	Truck, Flatbed, 10T, Hwy	Materials from Stockton	183	60.8	1.1	57	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 25	Pickup 1/2T 2 WD	Materials from Stockton	393	21303.1	1.1	19972	50.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 25	Pickup, 3/4T, 4wd	Materials from Stockton	393	279.7	1.1	262	0.7	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 26	Pickup 1/2T 2 WD	Materials from Stockton	1356	28604.8	1.1	26817	19.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 26	Truck Flatbed 4 T Highway	Materials from Stockton	1356	20738.5	1.1	19442	14.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 26	Truck, Flatbed, 10T, Hwy	Materials from Stockton	1356	154.7	1.1	145	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 27	Pickup 1/2T 2 WD	Materials from Stockton	26	13463.7	1.1	12622	485.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 27	Truck' End Dump' 16-20cy' Hwy	Base Rock and Gravel from Vernalis	26	650.3	0.7	929	36	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 27	Truck, Flatbed, 10T, Hwy	Materials from Stockton	26	227.2	1.1	213	8.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 28	Truck, Flatbed, 10T, Hwy	Materials from Stockton	2276	8301.9	1.1	7783	3.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 28	Truck, Flatbed, 4T, Hwy	Materials from Stockton	2276	13070.0	1.1	12253	5.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 29	Pickup 1/2T 2 WD	Materials from Stockton	187	3458.6	1.1	3242	17.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 29	Pickup, 3/4T, 4wd	Materials from Stockton	187	2093.1	1.1	1962	10.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 29	Truck, 400hp & End Dump TC, 28cy, 36T	Materials from Stockton	187	3407.4	1.1	3194	17.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 29	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	187	8787.6	1.1	8238	44	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 29	Truck, Flatbed, 10T, Hwy	Materials from Stockton	187	4154.4	1.1	3895	20.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 29	Truck, Flatbed, 4T, Hwy	Materials from Stockton	187	167.0	1.1	157	0.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 29	Truck, Flatbed, 10T, Hwy	Materials from Stockton	187	2302.9	1.1	2159	11.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel

SF - Central - 29	Truck' End Dump' 10-13cy' Hwy	Base Rock, Cement, Aggregate, and Sand from Stockton	187	14932.5	1.1	13493	72.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 30	Mechanics Truck	Materials from Stockton	186	1306.7	1.1	1225	7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 30	Pickup 1/2T 2 WD	Materials from Stockton	186	1185.9	1.1	1113	6.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 30	Pickup 1/4T, 4wd	Materials from Stockton	186	171.9	1.1	161	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 30	Truck, Flatbed, 10T, Hwy	Materials from Stockton	186	246.7	1.1	231	1.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 30	Truck Flatbed 4 T Highway	Materials from Stockton	186	1306.7	1.1	1225	6.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 30	Truck' End Dump' 10-13cy' Hwy	Gravel and Base Rock from Vernalis	186	996.3	1.1	934	5.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 30	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Livemore	186	29.5	0.6	52	0.3	Southern Complex on Byron Tract to/from Livemore	17	34	Diesel
SF - Central - 30	Truck, Flatbed, 10T, Hwy	Materials from Stockton	186	236.3	0.6	417	2.2	Southern Complex on Byron Tract to/from Stockton	17	34	Diesel
SF - Central - 31	Truck, Tractor, 75000k, 6 x 4	Materials from Stockton	676	401.9	1.1	377	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 31	Pickup 1/2T 2 WD	Materials from Stockton	676	799.4	1.1	749	1.1	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 31	Pickup 3/4T, 4wd	Materials from Stockton	676	33.3	1.1	31	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 31	Truck Flatbed 4 T Highway	Materials from Stockton	676	7904.1	1.1	7410	11.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 31	Truck, Flatbed, 10T, Hwy	Materials from Stockton	676	541.9	1.1	508	0.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 31	Truck, Flatbed, 10T, Hwy	Materials from Stockton	676	261.3	1.1	245	0.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 31	Truck' End Dump' 10-13cy' Hwy	Gravel and Base Rock from Vernalis	676	89.6	1.1	84	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 31	Truck, Flatbed, 10T, Hwy	Rebar from Livemore	676	129.8	0.6	229	0.3	Southern Complex on Byron Tract to/from Livemore	17	34	Diesel
SF - Central - 31	Truck Flatbed 4 T Highway	Loader from and to Stockton	2	2.1	1.1	2	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 32	Truck Flatbed 4 T Highway	Materials from Stockton	97	734.0	1.1	688	7.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 32	Truck, Tractor, 75000k, 6 x 4	Materials from Stockton	97	222.2	1.1	208	2.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 32	Truck Flatbed 4 T Highway	Materials from Stockton	97	227.2	1.1	213	2.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 32	Truck Flatbed 4 T Highway	Crane and Forklift from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 32	Truck Flatbed 4 T Highway	Crane to Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 33	Mechanics Truck	Materials from Stockton	255	5680.0	1.1	5325	21	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 33	Pickup 1/2T 2 WD	Materials from Stockton	255	5680.0	1.1	5325	20.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 33	Truck Flatbed 4 T Highway	Materials from Stockton	255	5680.0	1.1	5325	20.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 34	Truck, Flatbed, 10T, Hwy	Materials from Stockton	747	16.0	1.1	15	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 34	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	747	3090.0	1.1	2897	3.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 34	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	747	590.9	1.1	554	0.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 34	Truck' End Dump' 10-13cy' Hwy	Cement, Aggregate, and Sand from Stockton	747	6577.9	1.1	6167	8.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 34	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Livemore	747	250.5	0.6	442	0.6	Southern Complex on Byron Tract to/from Livemore	17	34	Diesel
SF - Central - 34	Truck' End Dump' 16-20cy' Hwy	Gravel and Flyash from Vernalis	747	1086.4	0.7	1552	2.1	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 34	Truck Flatbed 4 T Highway	Roller to Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 35	Truck & Bottom Dump, 21cy, 10T	Dumper	90	2179.5	1.1	2043	22.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 35	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	90	844.8	1.1	792	8.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 35	Truck' End Dump' 10-13cy' Hwy	Cement, Aggregate, and Sand from Stockton	90	1852.1	1.1	1736	19.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 35	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Livemore	90	95.8	0.6	169	1.9	Southern Complex on Byron Tract to/from Livemore	17	34	Diesel
SF - Central - 35	Truck' End Dump' 16-20cy' Hwy	Flyash from Vernalis	90	40.5	0.7	58	0.6	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 35	Truck Flatbed 4 T Highway	Crane to Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 36	Tunnel Utility Truck	Highway Truck	313	5103.9	1.1	4785	15.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 36	Truck, Flatbed, 10T, Hwy	Materials from Stockton	313	2590.0	1.1	2428	7.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 36	Truck Flatbed 4 T Highway	Materials from Stockton	313	15207.8	1.1	14257	46.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 36	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	313	154.7	1.1	145	0.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 37	Tunnel Utility Truck	Highway Truck	38	174	1.1	163	4.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 37	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	38	385.1	1.1	361	9.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 37	Truck' End Dump' 16-20cy' Hwy	Base Rock, Gravel, and Flyash from Vernalis	38	1212.4	0.7	1732	45.6	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 37	Truck Flatbed 4 T Highway	Dozer and Loader to Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 38	Mechanics Truck	Materials from Stockton	391	2133.0	1.1	2000	5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 38	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	391	3090.0	1.1	2897	7.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 38	Pickup 1/2T 2 WD	Materials from Stockton	391	2133.0	1.1	2000	5.1	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 38	Truck, Flatbed, 4T, Hwy	Materials from Stockton	391	2133.0	1.1	2000	5.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 39	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	460	2185.5	1.1	2049	4.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 39	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	460	444.8	1.1	417	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 39	Truck' End Dump' 10-13cy' Hwy	Cement, Aggregate, and Sand from Stockton	460	485.3	1.1	455	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 39	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Livemore	460	29.5	0.6	52	0.1	Southern Complex on Byron Tract to/from Livemore	17	34	Diesel
SF - Central - 39	Truck' End Dump' 16-20cy' Hwy	Base Rock, Gravel, and Flyash from Vernalis	460	664.4	0.7	949	2.1	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 39	Truck Flatbed 4 T Highway	Excavator and Loader from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 40	Tunnel Utility Truck	Highway Truck	345	10210.6	1.1	9572	27.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 40	Truck, Flatbed, 10T, Hwy	Materials from Stockton	345	2504.0	1.1	2348	6.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 41	Tunnel Utility Truck	Highway Truck	37	174	1.1	163	4.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 41	Truck' End Dump' 10-13cy' Hwy	Cement, Aggregate, and Sand from Stockton	37	656.9	1.1	616	16.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 41	Truck, Flatbed, 10T, Hwy	Rebar from Livemore	37	21.5	0.6	38	1.0	Southern Complex on Byron Tract to/from Livemore	17	34	Diesel
SF - Central - 41	Truck' End Dump' 16-20cy' Hwy	Gravel and Flyash from Vernalis	37	456.8	0.7	653	17.6	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 41	Truck Flatbed 4 T Highway	Crane and Tractor to Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 42	Mechanics Truck	Materials from Stockton	1566	3547.0	1.1	3325	2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 42	Pickup 1/2T 2 WD	Materials from Stockton	1566	3547.0	1.1	3325	2.1	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 42	Truck, Flatbed, 10T, Hwy	Materials from Stockton	1566	400.0	1.1	375	0.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 42	Truck Flatbed 4 T Highway	Materials from Stockton	1566	3547.0	1.1	3325	2.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 42	Truck & Bottom Dump' 21cy' 10T	Materials from Stockton	1566	3852.4	1.1	3612	2	Bethany PR to/from Stockton	32	64	Diesel Tier 4
SF - Central - 42	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	1566	227.2	1.1	213	0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 42	Truck Flatbed 4 T Highway	Loader and three Cranes to Stockton	1	4.3	1.1	4	4.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 43	Truck, Flatbed, 10T, Hwy	Materials from Stockton	239	15.3	1.1	14	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 43	Truck' End Dump' 16-20cy' Hwy	Gravel, Ballast, and Sub-ballast from Vernalis	239	11739.0	0.7	16770	70.2	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 43	Truck Flatbed 4 T Highway	Two Excavators, two Loaders, Roller, Dozer, and Scraper to Stockton	1	7.5	1.1	7	7.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel

SF - Central - 43	Truck Flatbed 4 T Highway	Excavator from and to Stockton	2	2.1	1.1	2	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 44	Truck Flatbed, 10T, Hwy	Materials from Stockton	101	1275.1	1.1	1195	11.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 44	Truck End Dump 16-20cy Hwy	Materials from Stockton	101	1473.1	1.1	1381	13.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 44	Truck End Dump 10-13cy Hwy	Cement, Aggregate, and Sand from Stockton	101	7426.7	1.1	6963	68.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 44	Truck End Dump 16-20cy Hwy	Flyash from Vernalis	101	162.3	0.7	232	2.3	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 44	Truck Flatbed 4 T Highway	Crane to Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 45	Truck Flatbed, 10T, Hwy	Materials from Stockton	166	4367.6	1.1	4095	24.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 45	Truck Flatbed 4 T Highway	Two Loaders, Grader, Dozer, Skid Loader, and Roller to Stockton	1	6.4	1.1	6	6.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 46	Truck End Dump 16-20cy Hwy	Materials from Stockton	442	3513.0	1.1	3293	7.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 46	Truck Flatbed, 10T, Hwy	Materials from Stockton	442	102.0	1.1	96	0.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 46	Truck Flatbed 4 T Highway	Two Cranes and a Forklift to Stockton	1	3.2	1.1	3	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 47	Truck End Dump 16-20cy Hwy	Materials from Stockton	106	213.3	1.1	200	1.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 47	Truck Flatbed 4 T Highway	Excavator, Tractor, Grader, Scraper, Loader, and two Dozers to Stockton	1	7.5	1.1	7	7.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 48	Truck Flatbed, 10T, Hwy	Materials from Stockton	1342	19049.3	1.1	178588	133.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 48	Truck Flatbed 4 T Highway	Lift, two Rollers, Paver, Excavator, and Loader to Stockton	1	6.4	1.1	6	6.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 49	Tunnel Utility Truck	Highway Truck	70	417.3	1.1	391	5.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 49	Truck End Dump 10-13cy Hwy	Cement, Aggregate, and Sand from Stockton	70	656.9	1.1	616	8.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 49	Truck Flatbed, 10T, Hwy	Rebar from Livermore	70	21.5	0.6	38	0.5	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 49	Truck End Dump 16-20cy Hwy	Gravel and Flyash from Vernalis	70	456.8	0.7	653	9.3	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 49	Truck Flatbed 4 T Highway	Crane and Tractor to Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 50	Pickup 1/2T 2 WD	Materials from Stockton	40	384.0	1.1	360	9.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 51	Pickup 1/2T 2 WD	Materials from Stockton	85	400.0	1.1	375	4.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 52	Pickup 1/2T 2 WD	Materials from Stockton	2205	17104.9	1.1	16036	7.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 55	Pickup 1/2T 2 WD	Materials from Stockton	255	200.0	1.1	188	0.7	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 55	Truck End Dump, 10-13cy Hwy	Materials from Stockton	255	4000.0	1.1	3750	15	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 55	Truck Flatbed, 10T, Hwy	Materials from Stockton	255	113.3	0.6	200	0.8	Southern Complex on Byron Tract to/from Stockton	17	34	Diesel

Vehicle Use on Unopened/Dirt Surface (no access roads at park and ride lots) — on the Construction Site									Miles On-Site	
SF - Central - 3	CAT 770, Articulated End dump	Dumper	253	233.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1166	Diesel or Hybrid
SF - Central - 3	Articulated Rear Dump 22 CY/CAT 730	Dumper	253	2181.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	10907	Diesel or Hybrid
SF - Central - 3	Truck & Bottom Dump, 21cy, 30T	Dumper	253	2408.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	12045	Diesel
SF - Central - 4	CAT 770, Articulated End dump	Dumper	318	101.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	509	Diesel or Hybrid
SF - Central - 4	Articulated Rear Dump 22 CY/CAT 735	Dumper	318	1069.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	5347	Diesel or Hybrid
SF - Central - 5	Cat 770, 511HP	Dumper	21	100.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	500	Diesel or Hybrid
SF - Central - 5	Articulated Rear Dump 22 CY/CAT 735	Dumper	21	199.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1000	Diesel or Hybrid
SF - Central - 5	Trailer, Flatbed, 40T	Off-Highway Truck	21		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 5	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	21		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 9	Articulated Rear Dump 22 CY/CAT 730	Dumper	201	160.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	800	Diesel or Hybrid
SF - Central - 9	Trailer, Lowboy, 50T	Off-Highway Truck	201	38.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	192	Diesel
SF - Central - 9	CAT735, 35T, Articulated End Dump	Dumper	201	72	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	360	Diesel or Hybrid
SF - Central - 9	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	201		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 10	CAT735, 35T, Articulated End Dump	Dumper	85	71	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	356	Diesel or Hybrid
SF - Central - 10	Cat 770, 511HP	Dumper	85	71.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
SF - Central - 10	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	85		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 11	Articulated Rear Dump 22 CY/CAT 730	Dumper	293	32881.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	164408	Diesel or Hybrid
SF - Central - 11	CAT 770 Dump	Dumper	293	200	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1002	Diesel or Hybrid
SF - Central - 11	Articulated Rear Dump 22 CY/CAT 735	Dumper	293	400.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2005	Diesel or Hybrid
SF - Central - 11	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	293		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 12	Trailer, Lowboy, 50T	Off-Highway Truck	721	8846.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	44234	Diesel
SF - Central - 12	CAT 740 40T, Articulated End dump	Dumper	721	2517.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	12686	Diesel or Hybrid
SF - Central - 12	Tremie Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	721		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 13	Trailer, Lowboy, 50T	Off-Highway Truck	792	1632.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	8161	Diesel
SF - Central - 13	CAT 770 Dump	Dumper	792	33	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	165	Diesel or Hybrid
SF - Central - 13	Articulated Rear Dump 22 CY/CAT 730	Dumper	792	7483.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	37419	Diesel or Hybrid
SF - Central - 13	CAT 740 40T, Articulated End dump	Dumper	792	235.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1178	Diesel or Hybrid
SF - Central - 13	Articulated Rear Dump 22 CY/CAT 735	Dumper	792	986.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	4930	Diesel or Hybrid
SF - Central - 13	CAT773, 51.7T, End Dump	Dumper	792	1523.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	7616	Diesel or Hybrid
SF - Central - 13	Tremie Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	792		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 14	CAT 740 40T, Articulated End dump	Dumper	908	2386.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	11934	Diesel or Hybrid
SF - Central - 14	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	908		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 15A	Articulated Rear Dump 22 CY/CAT 730	Dumper	263	2995.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	14978	Diesel or Hybrid
SF - Central - 15A	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	263		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel

SF - Central - 15B	Articulated Rear Dump 22 CV/CAT 730	Dumper	142	591.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2959	Diesel or Hybrid
SF - Central - 15B	Articulated Rear Dump 22 CV/CAT 735	Dumper	142	7114.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	35573	Diesel or Hybrid
SF - Central - 16	Articulated Rear Dump 22 CV/CAT 730	Dumper	147	144.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	723	Diesel or Hybrid
SF - Central - 16	Tremie Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	147		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 17	Articulated Rear Dump 22 CV/CAT 730	Dumper	31	21.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	109	Diesel or Hybrid
SF - Central - 18	Articulated Rear Dump 22 CV/CAT 730	Dumper	28	48.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	242	Diesel or Hybrid
SF - Central - 18	Concrete Pump Truck	Off-Highway Truck	28		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 19	Articulated Rear Dump 22 CV/CAT 730	Dumper	317	269.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1347	Diesel or Hybrid
SF - Central - 19	CAT 740 40T, Articulated End dump	Dumper	317	646.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3231	Diesel or Hybrid
SF - Central - 19	CAT 770 Dump	Dumper	317	1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3	Diesel or Hybrid
SF - Central - 19	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	317		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 19	Articulated Rear Dump 22 CV/CAT 730	Dumper to move soil on-site	317		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
SF - Central - 20	Tremie Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	679		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 22	Trailer, Lowboy, 50T	Off-Highway Truck	269	240.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1200	Diesel
SF - Central - 22	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	269		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 23	Articulated Rear Dump 22 CV/CAT 730	Dumper	222	5595.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	27977	Diesel or Hybrid
SF - Central - 23	Articulated Rear Dump 22 CV/CAT 735	Dumper	222	484.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2422	Diesel or Hybrid
SF - Central - 23	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	222		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 23	Articulated Rear Dump 22 CV/CAT 730	Dumper to move soil on-site	908		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
SF - Central - 24	Tremie Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	183		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 25	Articulated Rear Dump 22 CV/CAT 730	Dumper	393	559.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2797	Diesel or Hybrid
SF - Central - 25	Articulated Rear Dump 22 CV/CAT 735	Dumper	393	83045.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	415218	Diesel or Hybrid
SF - Central - 26	CAT 770 Dump	Dumper	1356	11203	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	56014	Diesel or Hybrid
SF - Central - 26	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	1356		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 27	CAT 769, 41.6T End Dump	Dumper	26	34297.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
SF - Central - 28	Cat 770, 5.11HP	Dumper	2276		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
SF - Central - 28	Cat 745 40T, Articulated End Dump	Dumper	2276		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
SF - Central - 29	CAT735, 35T, Articulated End Dump	Dumper	187	8194	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	40972	Diesel or Hybrid
SF - Central - 29	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	187		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 30	Cat 770, 5.11HP	Dumper	186	134.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	674	Diesel or Hybrid
SF - Central - 30	Articulated Rear Dump 22 CV/CAT 730	Dumper	186	3081.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	15406	Diesel or Hybrid
SF - Central - 30	CAT735, 35T, Articulated End Dump	Dumper	186	287	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1435	Diesel or Hybrid
SF - Central - 30	Trailer, Lowboy, 50T	Off-Highway Truck	186	550.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2750	Diesel
SF - Central - 30	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	186		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 31	Trailer, Lowboy, 50T	Off-Highway Truck	676	401.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2010	Diesel
SF - Central - 31	Articulated Rear Dump 22 CV/CAT 730	Dumper	676	13991.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	69956	Diesel or Hybrid
SF - Central - 31	Cat 770, 5.11HP	Dumper	676	1027.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	5135	Diesel or Hybrid
SF - Central - 31	CAT 740 40T, Articulated End dump	Dumper	676	610.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3050	Diesel or Hybrid
SF - Central - 31	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	676		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 32	Trailer, Lowboy, 50T	Off-Highway Truck	97	444.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2220	Diesel
SF - Central - 32	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	97		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 34	CAT 740 40T, Articulated End dump	Dumper	747	639.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3195	Diesel or Hybrid
SF - Central - 34	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	747		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 35	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	90		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 37	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	38		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 38	Articulated Rear Dump 22 CV/CAT 730	Dumper	391	639.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3195	Diesel or Hybrid
SF - Central - 38	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	391	1278.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	6390	Diesel
SF - Central - 39	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	460		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 41	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	37		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 43	Articulated Rear Dump 22 CV/CAT 730	Dumper	239	1296.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	6482	Diesel or Hybrid
SF - Central - 43	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	239	1628.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	8140	Diesel
SF - Central - 45	Articulated Rear Dump 22 CV/CAT 730	Dumper	166	1276.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	6383	Diesel or Hybrid
SF - Central - 46	Articulated Rear Dump 22 CV/CAT 730	Dumper	442	758.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3794	Diesel or Hybrid
SF - Central - 46	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	442	1364.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	6830	Diesel
SF - Central - 55	CAT 740 40T, Articulated End dump	Dumper	255	200.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1000	Diesel or Hybrid

**Employees Required to Southern Complex on Byron Tract - Central
Option 5**

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
SF - Central - 1	Carpenter Apprentice	8.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 1	Carpenter Foreman	8.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 1	Carpenter Journeyman	17.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 1	Electrical Foreman	4.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 1	Electrical Journeyman	17.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 1	Iron Worker Journeyman	17.8				32
SF - Central - 1	Rebar/Struct		10		Stockton to/from Southern Complex on Byron Tract	
SF - Central - 1	Laborer G2 General	3217.8	10		Stockton to/from Southern Complex on Byron Tract	32
						32
SF - Central - 1	Operator G3a Cranes 45 t and under	328.8	10		Stockton to/from Southern Complex on Byron Tract	
SF - Central - 1	Teamster G1 Hwy ED<6cy, Flatbed	799.7	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 1	Teamster G3 Boom Truck	4.4	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-1						
SF - Central - 2	Carpenter Apprentice	44.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Carpenter Foreman	44.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Carpenter Journeyman	88.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Electrical Foreman	22.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Electrician Journeyman	88.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Iron Worker Journeyman Rebar/Stru	88.89	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Laborer G2 General	16088.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Operator G3a Cranes 45 t and under	1644.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Teamster G1 Hwy ED<6cy, Flatbed	4000.28	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Teamster G3 Boom Truck	22.22	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-2						
SF - Central - 3	Laborer G1 Pipe layers	757.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Laborer G1 Power Tamper	378.7	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Laborer G2 General	4903.5	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Laborer G3 Flagman	1240.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Operator G3 Loader >4cy	328.5	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Operator G2a Cranes 45 to 100 t	2423.76	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	OPERATING ENGINEER FOREMAN	2480	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Operator G2 Excavator 3.5 to 7.0	363.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Operator G2 Finish Blade	853.3	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Operator G3 BH-Loader>3/4cy	2613.1	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Operator G4 Dozer & Push Cat	1799.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Operator G4 Grade Check	1211.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Operator G5 Compactor w-blade	1086.3	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Teamster G2 Hwy ED 6-8cy, Wate	1604.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Teamster G3 ED 8-24cy, Water>7	4895.3	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-3						
SF - Central - 4	Laborer Foreman	30.44	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Laborer G1 Pipe layers	401.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Laborer G3 Bridge labor	5696.96	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Laborer G1 Power Tamper	140	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Laborer G2 General	1412.5	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Laborer G3 Flagman	1090.5	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	OPERATING ENGINEER FOREMAN	2653.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G2 Finish Blade	646.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G1a Cranes>100 t	1424.24	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G2 Excavator 3.5 to 7.0 cy	267.34	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G2a Cranes 45 to 100 t	1424.24	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G3 BH-Loader>3/4cy	407.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G4 Dozer & Push Cat	470.7	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G4 Grade Check	857.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G4 Loader <4.1cy	70	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G4a Boom truck<15 ton	35.14	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G5 Asphalt Roller	623.78	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G5 Compactor w-blade	203.35	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G5 Paver	311.89	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G7 Roller, Compactor	545.26	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G8 Generator	109.05	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Pile Driver Wharf and Dock	5696.96	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Teamster G1 Hwy ED<6cy, Flatbed	1469.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Teamster G2 Hwy ED 6-8cy, Water<7	1123.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Teamster G3 Boom Truck	35.14	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Teamster G3 ED 8-24cy, Water>7mg;	1069.4	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-4						
SF - Central - 5	Laborer G2 General	307.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Laborer G3 Flagman	307.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	OPERATING ENGINEER FOREMAN	253.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Operator G2 Finish Blade	199.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Operator G3 Loader >4cy	100	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Operator G4 Dozer & Push Cat	307.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Operator G4 Grade Check	100	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Operator G4 Loader <4.1cy	253.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Operator G4 Trim Machine	76.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Operator G5 Compactor w-blade	100	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Teamster G2 Hwy ED 6-8cy, Water<7	153.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Teamster G3 ED 8-24cy, Water>7mg;	507.1	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-5						
SF - Central - 6	Carpenter Apprentice	759.3	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Carpenter Foreman	759.3	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Carpenter Journeyman	1518.6	10		Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 6	Electrical Foreman	189.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Electrician Journeyman	759.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Iron Worker Journeyman Rebar/Stru	1518.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Laborer G2 General	47080.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	OPERATING ENGINEER FOREMAN	15187.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Operator G2 Plant Operator	30374.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Operator G3 BH-Loader>3/4cy	15187.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Operator G3a Cranes 45 t and under	15187.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Operator G4 Grade Check	15187.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Operator G4 Hvy Duty Mechanic	15187.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Operator G4a Boom truck<15 ton	759.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Teamster G1 Hwy ED<6cy, Flatbed	15187.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Teamster G2 Hwy ED 6-8cy, Water<7	15187.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Teamster G3 Boom Truck	379.7	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-6					
SF - Central - 7	Carpenter Apprentice	2815.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Carpenter Foreman	2815.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Carpenter Journeyman	5496.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Electrical Foreman	1078.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Electrician Journeyman	3525.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Iron Worker Journeyman Rebar/Stru	5631.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Laborer Foreman	8256	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Laborer G1 Pipe layers	1536	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Laborer G2 General	38732.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	OPERATING ENGINEER FOREMAN	76.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G2 Finish Blade	76.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G2a Cranes 45 to 100 t	135.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G3a Cranes 45 t and under	1442.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G4 BH-Loader <.76cy	1536	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G4 Dozer & Push Cat	76.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G4 Grade Check	76.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G4 Loader <4.1cy	7488	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G4 Scraper	153.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G4a Boom truck<15 ton	1441	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G6 Tractor	3744	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G7 Roller, Compactor	76.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Teamster G2 Hwy ED 6-8cy, Water<7	844.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Teamster G3 Boom Truck	1407.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Teamster G1 Hwy ED<6cy, Flatbed	14976	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-7					
SF - Central - 8	Carpenter Journeyman	12375	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Electrician Journeyman	12375	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Laborer Foreman	6877.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Laborer G4 Clean-up	13755.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Operator G1a Cranes>100 t	39936	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Operator G2 Finish Blade	1375.5264	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Operator G3 BH-Loader>3/4cy	6877.6128	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Operator G4 Hvy Duty Mechanic	9984	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Operator G5 Compactor w-blade	1375.5264	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Operator G5 Concrete Pump	4992	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Operator G7 Oiler	29952	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Teamster G1 Hwy ED<6cy, Flatbed	16861.6	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-8					
SF - Central - 9	Carpenter Apprentice	960	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Carpenter Foreman	1226.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Carpenter Journeyman	3796	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Cement Mason Foreman	115.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Cement Mason Journeyman	603.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Electrical Foreman	576	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Electrician Journeyman	4864	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Iron Worker Foreman	345.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Iron Worker Journeyman Rebar/Stru	8179.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Laborer Foreman	665.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Laborer G1 Pipe layers	1024	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Laborer G1 Vibrator, Green Cutter	192	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Laborer G2 Concrete Laborer	288	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Laborer G2 General	4630.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Laborer G2 High Pressure Nozzleman	57.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	OPERATING ENGINEER FOREMAN	104	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G1a Cranes>100 t	38.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G2 Excavator 3.5 to 7.0 cy	24	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G2 Finish Blade	6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G2a Cranes 45 to 100 t	182.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G3 BH-Loader>3/4cy	512	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G3 Loader >4cy	630.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G3a Cranes 45 t and under	960	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G4 Dozer & Push Cat	104	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G4 Grade Check	104	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G4 Hvy Duty Mechanic	72	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G4a Boom truck<15 ton	960	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G5 Compactor w-blade	80	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G7 Oiler	38.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Pile Driver Foreman	38.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Pile Driver Journeyman	192	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Teamster G1 Hwy ED<6cy, Flatbed	256	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Teamster G2 Hwy ED 6-8cy, Water<7	302	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Teamster G3 Boom Truck	960	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Teamster G3 ED 8-24cy, Water>7mg;	1680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Teamster G4 ED 25-65 Cy	232	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Teamster G4 Tractor, Lowbed/Trailer	38.4	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-9			370		
SF - Central - 10	Carpenter Foreman	308	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Compactor Journeyman	2020.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Cement Mason Foreman	348.8	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 10	Cement Mason Journeyman	2434.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Iron Worker Foreman	298.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Iron Worker Journeyman Rebar/Stru	2086.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Laborer Foreman	110.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Laborer G1 Vibrator, Green Cutter	220.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Laborer G2 Concrete Laborer	331.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Laborer G2 General	2104	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	OPERATING ENGINEER FOREMAN	71.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Operator G2 Finish Blade	71.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Operator G2a Cranes 45 to 100 t	312	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Operator G3 Loader >4cy	71.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Operator G4 Hvy Duty Mechanic	78	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Operator G5 Compactor w-blade	71.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Teamster G1 Hwy ED<6cy, Flatbed	78	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Teamster G3 ED 8-24cy, Water>7mg;	61.4	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-10					
SF - Central - 11	Carpenter Apprentice	890	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Carpenter Foreman	890	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Carpenter Journeyman	1780	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Electrical Foreman	225.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Electrician Journeyman	890	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Iron Worker Foreman	8222.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Iron Worker Journeyman Rebar/Stru	67561.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Laborer Foreman	8221.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Laborer G2 Concrete Laborer	49328.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Laborer G2 General	71582.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	OPERATING ENGINEER FOREMAN	15454.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G1a Cranes>100 t	23476.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G2 Finish Blade	400.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G2 Micro Tunnel	16441.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G2a Cranes 45 to 100 t	16441.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G3 BH-Loader>3/4cy	8220.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G3 Loader >4cy	8420.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G4 Dozer & Push Cat	8220.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G4 Grade Check	8420.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G4 Hvy Duty Mechanic	8220.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G4 Loader <4.1cy	200.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G4a Boom truck<15 ton	890	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G5 Compactor w-blade	200.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G5 Drilling & Boring Mach	192	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G7 Oiler	40110.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Teamster G1 Hwy ED<6cy, Flatbed	8220.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Teamster G3 Boom Truck	445	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Teamster G3 ED 8-24cy, Water>7mg;	33282.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Teamster G4 Water Tanker, Off Hwy	200.4	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-11					
SF - Central - 12	Carpenter Foreman	3423	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Carpenter Journeyman	22719	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Cement Mason Foreman	913.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Cement Mason Journeyman	3567.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Iron Worker Foreman	16534	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Iron Worker Journeyman Rebar/Stru	112596.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Laborer Foreman	8221.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Laborer G1 Vibrator, Green Cutter	2126.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Laborer G2 Concrete Laborer	12803.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Laborer G2 General	46837.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Laborer G2 High Pressure Nozzlemar	4488	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	OPERATING ENGINEER FOREMAN	4004	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G1a Cranes>100 t	16252.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G2 Excavator 3.5 to 7.0 cy	3249.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G2 Finish Blade	130.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G2 Plant Operator	153.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G2a Cranes 45 to 100 t	7235.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G3 Loader >4cy	260.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G3a Cranes 45 t and under	361.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G4 Dozer & Push Cat	1385.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G4 Hvy Duty Mechanic	798.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G5 Compactor w-blade	260.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G6 Screedman	206.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G6 Tractor	260.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G7 Oiler	1652.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G8a Skidsteer <Bobcat 743	266.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Teamster G2 Hwy ED 6-8cy, Water<7	331.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Teamster G3 ED 8-24cy, Water>7mg;	13692	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Teamster G4 ED 25-65 Cy	9284.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Teamster G4 Tractor, Lowbed/Trailer	8846.8	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-12					
SF - Central - 13	Carpenter Apprentice	213.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Carpenter Foreman	6144.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Carpenter Journeyman	29595.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Cement Mason Foreman	700.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Cement Mason Journeyman	2760.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Electrical Foreman	1434.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Electrical Lineman	1382.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Electrician Journeyman	208.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Iron Worker Foreman	6985.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Iron Worker Journeyman Rebar/Stru	50614.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Iron Worker-Rigger	488.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Laborer Foreman	5178.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Laborer G1 Vibrator, Green Cutter	1942	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Laborer G2 Concrete Laborer	17061.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Laborer G2 General	46369.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Laborer G2 High Pressure Nozzlemar	761.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Laborer G3 Flagman	460.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Millwright	5529.6	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 13	OPERATING ENGINEER FOREMAN	4682.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G1a Cranes>100 t	11791.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G2 Excavator 3.5 to 7.0 cy	289	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G2 Finish Blade	152.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G2 Micro Tunnel	3743.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G2a Cranes 45 to 100 t	7995.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G3 BH-Loader>3/4cy	1870.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G3 Loader >4cy	1962.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G4 Dozer & Push Cat	2413.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G4 Grade Check	2018.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G4 Hvy Duty Mechanic	2262.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G4 Loader <4.1cy	32.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G4a Boom truck<15 ton	208.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G5 Compactor w-blade	91.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G6 Screedman	164.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G6 Tractor	58.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G7 Oiler	17405.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G8a Skidsteer <Bobcat 743	87	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Pipefitter Foreman	1382.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Pipefitter Journeyman	1382.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Teamster G1 Hwy ED<6cy, Flatbed	2807.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Teamster G2 Hwy ED 6-8cy, Water<7	159.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Teamster G3 Boom Truck	104.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Teamster G3 ED 8-24cy, Water>7mgi	10463.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Teamster G4 ED 25-65 Cy	2679	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Teamster G4 Tractor, Lowbed/Trailer	1632.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Teamster G4 Water Tanker, Off Hwy	32.9	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-13					
SF - Central - 14	Carpenter Apprentice	19.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Carpenter Foreman	9183.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Carpenter Journeyman	52660.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Cement Mason Foreman	2253	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Cement Mason Journeyman	11398.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Electrical Foreman	96	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Electrical Lineman	96	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Iron Worker Foreman	7436.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Iron Worker Journeyman Rebar/Stru	48201.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Iron Worker Rigger	191.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Laborer Foreman	3056.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Laborer G1 Vibrator, Green Cutter	1722.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Laborer G2 Concrete Laborer	6465.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Laborer G2 General	37852.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Laborer G2 High Pressure Nozzlemar	817	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Millwright	768	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	OPERATING ENGINEER FOREMAN	921.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G1a Cranes>100 t	7381.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G2 Excavator 3.5 to 7.0 cy	1354.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G2 Finish Blade	244.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G2a Cranes 45 to 100 t	3569.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G3 Loader >4cy	488.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G4 Dozer & Push Cat	488.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G4 Hvy Duty Mechanic	757.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G5 Compactor w-blade	488.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G6 Screedman	332.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G6 Tractor	488.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G7 Oiler	7764.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G8a Skidsteer <Bobcat 743	1378	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Pile Driver Foreman	156.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Pile Driver Journeyman	938.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Pipefitter Foreman	96	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Pipefitter Journeyman	96	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Teamster G1 Hwy ED<6cy, Flatbed	196.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Teamster G2 Hwy ED 6-8cy, Water<7	1500.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Teamster G3 ED 8-24cy, Water>7mgi	3651.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Teamster G4 ED 25-65 Cy	2386.8	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-14					
SF - Central - 15A	Operator G1a Cranes>100 t	2995.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15A	Operator G3 BH-Loader>3/4cy	2995.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15A	Operator G7 Oiler	2995.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15A	Pipefitter Apprentice	11980.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15A	Pipefitter Foreman	2995.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15A	Pipefitter Journeyman	17971.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15A	Teamster G4 Tractor, Lowbed/Trailer	1497.6	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-15					
SF - Central - 15B	Carpenter Apprentice	76.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Carpenter Foreman	2698	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Carpenter Journeyman	16039.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Cement Mason Foreman	561.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Cement Mason Journeyman	2574.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Electrical Foreman	19.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Electrician Journeyman	76.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Iron Worker Foreman	6292.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Iron Worker Journeyman Rebar/Stru	44531.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Laborer Foreman	2083.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Laborer G1 Vibrator, Green Cutter	1120	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Laborer G2 Concrete Laborer	4396.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Laborer G2 General	14507	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Laborer G2 High Pressure Nozzlemar	2201.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	OPERATING ENGINEER FOREMAN	2166.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G1a Cranes>100 t	2912.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G2 Excavator 3.5 to 7.0 cy	1194.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G2 Finish Blade	1059.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G2 Micro Tunnel	172.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G2 Plant Operator	591.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G2a Cranes 45 to 100 t	1626	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 15B	Operator G3 BH-Loader>3/4cy	591.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G3 Loader >4cy	972.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G3a Cranes 45 t and under	591.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G4 Dozer & Push Cat	2980.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G4 Grade Check	1575.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G4 Hvy Duty Mechanic	215.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G4a Boom truck<15 ton	38.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G5 Compactor w-blade	380.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G6 Screedman	80.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G7 Oiler	3677.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G8a Skidsteer <Bobcat 743	250.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Teamster G1 Hwy ED<6cy, Flatbed	591.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Teamster G2 Hwy ED 6-8cy, Water<7	1140.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Teamster G3 Boom Truck	38.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Teamster G3 ED 8-24cy, Water>7mg;	2198.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Teamster G4 ED 25-65 Cy	7706.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Teamster G4 Water Tanker, Off Hwy	380.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-15					

SF - Central - 16	Carpenter Apprentice	1100.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Carpenter Foreman	1207.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Carpenter Journeyman	3040.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Cement Mason Foreman	136	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Cement Mason Journeyman	772.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Electrical Foreman	1100.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Electrician Journeyman	772.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Iron Worker Foreman	247.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Iron Worker Journeyman Rebar/Stru	3935.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Laborer Foreman	106.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Laborer G1 Vibrator, Green Cutter	182.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Laborer G2 Concrete Laborer	546.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Laborer G2 General	3695.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Laborer G2 High Pressure Nozzle	15.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	OPERATING ENGINEER FOREMAN	72.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G1a Cranes>100 t	289.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G2a Cranes 45 to 100 t	289.0656	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G3 Loader >4cy	72.2688	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G3a Cranes 45 t and under	1100.8032	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G4 Dozer & Push Cat	72.2688	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G4 Grade Check	72.2688	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G4 Hvy Duty Mechanic	72.2688	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G4a Boom truck<15 ton	1100.8032	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G5 Compactor w-blade	72.2688	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G6 Screedman	91.0656	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G7 Oiler	289.0656	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Teamster G2 Hwy ED 6-8cy, Water<7	36.1344	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Teamster G3 Boom Truck	1100.8032	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Teamster G3 ED 8-24cy, Water>7mg;	273.1776	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Teamster G4 ED 25-65 Cy	144.5376	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-16					

SF - Central - 17	Carpenter Apprentice	1232	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Carpenter Foreman	1267.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Carpenter Journeyman	2714.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Cement Mason Foreman	30.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Cement Mason Journeyman	189	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Electrical Foreman	1232	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Electrician Journeyman	2464	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Iron Worker Foreman	85	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Iron Worker Journeyman Rebar/Stru	3058.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Laborer Foreman	34.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Laborer G1 Vibrator, Green Cutter	49.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Laborer G2 Concrete Laborer	73.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Laborer G2 General	2848.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Laborer G2 High Pressure Nozzle	9.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	OPERATING ENGINEER FOREMAN	10.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G1a Cranes>100 t	77.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G2a Cranes 45 to 100 t	77.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G3 Loader >4cy	10.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G3a Cranes 45 t and under	1232.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G4 Dozer & Push Cat	10.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G4 Grade Check	10.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G4 Hvy Duty Mechanic	19.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G4a Boom truck<15 ton	1232.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G5 Compactor w-blade	10.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G6 Screedman	24.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G7 Oiler	77.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Teamster G2 Hwy ED 6-8cy, Water<7	5.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Teamster G3 Boom Truck	1232.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Teamster G3 ED 8-24cy, Water>7mg;	36.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Teamster G4 ED 25-65 Cy	21.8	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-17					

SF - Central - 18	Carpenter Foreman	32.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Carpenter Journeyman	225.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Cement Mason Foreman	19.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Cement Mason Journeyman	113.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Electrical Foreman	0.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Electrician Journeyman	0.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Iron Worker Foreman	46.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Iron Worker Journeyman Rebar/Stru	322.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Laborer Foreman	18.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Laborer G1 Vibrator, Green Cutter	26.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Laborer G2 Concrete Laborer	40	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Laborer G2 General	236.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Laborer G2 High Pressure Nozzle	5.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Millwright	0.384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	OPERATING ENGINEER FOREMAN	24.1728	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 18	Operator G1a Cranes>100 t	42.3648	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G2a Cranes 45 to 100 t	42.3648	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G3 Loader >4cy	24.1728	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G3a Cranes 45 t and under	0.048	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G4 Dozer & Push Cat	24.1728	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G4 Grade Check	24.1728	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G4 Hvy Duty Mechanic	10.5888	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G4a Boom truck<15 ton	0.048	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G5 Compactor w-blade	24.1728	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G7 Oiler	42.3648	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Teamster G2 Hwy ED 6-8cy, Water<7	12.0864	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Teamster G3 Boom Truck	0.192	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Teamster G3 ED 8-24cy, Water>7mg;	20.016	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Teamster G4 ED 25-65 Cy	48.3552	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-18					
SF - Central - 19	Carpenter Apprentice	2198.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Carpenter Foreman	2438.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Carpenter Journeyman	6058.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Cement Mason Foreman	282.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Cement Mason Journeyman	1948.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Electrical Foreman	2343.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Electrician Lineman	145.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Electrician Journeyman	4396.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Iron Worker Foreman	665.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Iron Worker Journeyman Rebar/Stru	9053.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Laborer Foreman	2017.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Laborer G1 Pipe Layers	1499.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Laborer G1 Vibrator, Green Cutter	488.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Laborer G2 Concrete Laborer	2214.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Laborer G2 General	15146.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Laborer G2 High Pressure Nozzle/ma	57.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Laborer G3 Flagman	57.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	OPERATING ENGINEER FOREMAN	230.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G1a Cranes>100 t	387.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G2 Excavator 3.5 to 7.0 cy	2.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G2 Finish Blade	60.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G3a Cranes 45 t and under	775.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G3 BH-Loader>3/4cy	1330.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G3 Loader >4cy	884.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G3a Cranes 45 t and under	2198.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G4 Dozer & Push Cat	139.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G4 Grade Check	173	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G4 Hvy Duty Mechanic	193.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G4 Loader <4.1cy	57.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G4a Boom truck<15 ton	2198.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G5 Asphalt Roller	71.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G5 Compactor w-blade	194.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G5 Curb & Gutter Conc Fini	249.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G5 Paver	35.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G6 Screedman	244.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G6 Tractor	0.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G7 Oiler	775.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G8 Pump	12	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G8a Skidsteer <Bobcat 743	1115.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Teamster G1 Hwy ED<6cy, Flatbed	1276.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Teamster G2 Hwy ED 6-8cy, Water<7	976.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Teamster G3 Boom Truck	2198.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Teamster G3 ED 8-24cy, Water>7mg;	906	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Teamster G4 ED 25-65 Cy	282	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Teamster G4 Tractor, Lowbed/Trailer	115.4	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-19					
SF - Central - 20	Carpenter Apprentice	4586.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Carpenter Foreman	12137	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Carpenter Journeyman	57197.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Cement Mason Foreman	1649.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Cement Mason Journeyman	6263.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Electrical Foreman	5306.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Electrician Journeyman	15200.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Iron Worker Foreman	6207.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Iron Worker Journeyman Rebar/Stru	46985.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Iron Worker Rigger	710.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Laborer Foreman	2106.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Laborer G1 Vibrator, Green Cutter	1321.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Laborer G2 Concrete Laborer	3963.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Laborer G2 General	39573.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Laborer G2 High Pressure Nozzle/ma	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Operator G1a Cranes>100 t	6429	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Operator G3a Cranes 45 t and under	6991.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Operator G4 Hvy Duty Mechanic	530.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Operator G4a Boom truck<15 ton	4160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Operator G6 Screedman	294.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Operator G7 Oiler	7139.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Operator G8a Skidsteer <Bobcat 743	85.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Pipefitter Apprentice	474.24	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Pipefitter Foreman	717.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Pipefitter Journeyman	4302.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Teamster G1 Hwy ED<6cy, Flatbed	1863.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Teamster G2 Hwy ED 6-8cy, Water<7	85.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Teamster G3 Boom Truck	4160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Teamster G3 ED 8-24cy, Water>7mg;	1982	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Teamster G4 Tractor, Lowbed/Trailer	710.4	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-20					
SF - Central - 21	Carpenter Foreman	3200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 21	Carpenter Journeyman	6400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 21	Laborer G2 General	3200	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Central-21

SF - Central - 22	Carpenter Foreman	2016	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Electrical Lineman	3840	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Electrical Foreman	1056	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Electrician Journeyman	3840	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Iron Worker Rigger	384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Laborer G2 General	192	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Millwright	11904	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Operator G1a Cranes>100 t	384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Operator G3a Cranes 45 t and under	1352.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Operator G7 Oiler	384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Pipefitter Foreman	1432.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Pipefitter Journeyman	4298.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Teamster G1 Hwy ED<6cy, Flatbed	2112	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Teamster G4 Tractor, Lowbed/Trailer	240	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Central-22

SF - Central - 23	Carpenter Apprentice	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Carpenter Foreman	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Carpenter Journeyman	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Electrical Foreman	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Electrician Journeyman	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Iron Worker Rigger	241	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Iron Worker Journeyman Rebar/Stru	50	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Laborer Foreman	39.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Laborer G1 Pipe Layer	2577	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Laborer G2 General	5318.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Laborer G3 Flagman	337.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	OPERATING ENGINEER FOREMAN	14800.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G2 Excavator 3.5 to 7.0 cy	1220.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G2 Finish Blade	25208.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G2a Cranes 45 to 100 t	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G3 BH-Loader>3/4cy	7538.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G3 Loader >4cy	1499.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G3a Cranes 45 t and under	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G4 BH-Loader <.76cy	50	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G4 Dozer & Push Cat	2052.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G4 Grade Check	208.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G4 Scraper	80	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G4a Boom truck<15 ton	110.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G5 Compactor w-blade	920.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G8 Pump	33.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Teamster G1 Hwy ED<6cy, Flatbed	59.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Teamster G2 Hwy ED 6-8cy, Water<7	26438	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Teamster G3 Boom Truck	170.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Teamster G3 ED 8-24cy, Water>7mg;	19086.2	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Central-23

SF - Central - 24	Laborer G2 General	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 24	Laborer G3 Flagman	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 24	OPERATING ENGINEER FOREMAN	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 24	Operator G2 Finish Blade	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 24	Operator G4 Dozer & Push Cat	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 24	Operator G4 Loader <4.1cy	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 24	Teamster G2 Hwy ED 6-8cy, Water<7	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 24	Teamster G3 ED 8-24cy, Water>7mg;	1600	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Central-24

SF - Central - 25	Electrical Lineman	1560	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Laborer Foreman	3900	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Laborer G1 Pipe layers	7800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Laborer G3 Flagman	41522.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Laborer G4 Clean-up	559.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	OPERATING ENGINEER FOREMAN	21582.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Operator G2 Excavator 3.5 to 7.0 cy	22124.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Operator G2 Finish Blade	5190.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Operator G4 Dozer & Push Cat	22404.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Operator G4 Grade Check	10380.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Operator G8 Generator	7800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Teamster G2 Hwy ED 6-8cy, Water<7	5190.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Teamster G3 Boom Truck	3900	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Teamster G3 ED 8-24cy, Water>7mg;	83604.9	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Central-25

SF - Central - 26	Laborer G2 General	64408.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	OPERATING ENGINEER FOREMAN	49343.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G2 Excavator 3.5 to 7.0 cy	10332	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G2 Finish Blade	11202.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G2 Plant Operator	41476.92	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G3 BH-Loader>3/4cy	20738.46	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G3a Cranes 45 t and under	20738.46	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G4 Dozer & Push Cat	48073.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G4 Grade Check	31070.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G4 Scraper	73091.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G5 Compactor w-blade	18272.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G6 Tractor	2066.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G7 Roller, Compactor	28604.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G8 Pump	2066.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Teamster G1 Hwy ED<6cy, Flatbed	20738.46	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Teamster G2 Hwy ED 6-8cy, Water<7	20738.46	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Teamster G3 ED 8-24cy, Water>7mg;	11202.8	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Central-26

SF - Central - 27	Laborer G2 General	119.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 27	OPERATING ENGINEER FOREMAN	13583.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 27	Operator G5 Compactor w-blade	119.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 27	Operator G4 Dozer & Push Cat	32095.7	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 27	Operator G4 Scraper	19915.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 27	Operator G2 Excavator 3.5 to 7.0 cy	17148.76	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 27	Operator G2 Finish Blade	119.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 27	Teamster G3 ED 8-24cy, Water>7mg;	34297.53	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-27					
SF - Central - 28	Carpenter Journeyman	2075.47	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 28	Electrician Journeyman	4150.94	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 28	Laborer Foreman	21371.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 28	Laborer G2 General	26140	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 28	Laborer G4 Clean-up	16603.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 28	Operator G3 BH-Loader>3/4cy	8610.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 28	Operator G6 Tractor	6535	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 28	Teamster G1 Hwy ED<6cy, Flatbed	21371.9	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-28					
SF - Central - 29	Laborer Foreman	1895.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Laborer G2 General	15469	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Laborer G3 Fence Builder	7259.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	OPERATING ENGINEER FOREMAN	5638.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G8a Skidsteer <Bobcat 743	107.14	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G2 Excavator 3.5 to 7.0 cy	2921.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G2 Finish Blade	2339.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G3 BH-Loader>3/4cy	2688	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G3 Gradall	2867.76	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G3 Loader >4cy	5355.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G4 Dozer & Push Cat	895.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G4 Grade Check	1160.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G4 Scraper	555.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G4 Trim Machine	819.64	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G5 Compactor w-blade	2093.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G6 Tractor	334	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G7 Roller, Compactor	340.74	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G8 Pump	603.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Teamster G1 Hwy ED<6cy, Flatbed	4321.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Teamster G2 Hwy ED 6-8cy, Water<7	2564.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Teamster G3 ED 8-24cy, Water>7mg;	9142.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Teamster G4 ED 25-65 Cy	2458.9	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-29					
SF - Central - 30	Carpenter Foreman	1187.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Carpenter Journeyman	8309.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Cement Mason Foreman	12.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Cement Mason Journeyman	36.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Iron Worker Foreman	1026.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Iron Worker Journeyman Rebar/Stru	6160.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Laborer Foreman	310	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Laborer G1 Vibrator, Green Cutter	63.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Laborer G2 Concrete Laborer	1675.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Laborer G2 General	6227.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Laborer G2 High Pressure Nozzle/ma	13.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Laborer G3 Dumpman	171.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	OPERATOR - MECHANIC	137.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	OPERATING ENGINEER FOREMAN	2115.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G1a Cranes>100 t	7725.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G2 Excavator 3.5 to 7.0 cy	597.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G2 Finish Blade	134.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G2 Plant Operator	2476	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G2a Cranes 45 to 100 t	792.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G3 BH-Loader>3/4cy	1310.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G3 Loader >4cy	447	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G3a Cranes 45 t and under	1169.23	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G4 Dozer & Push Cat	1419	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G4 Grade Check	1482.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G4 Hvy Duty Mechanic	6.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G4 Scraper	808.29	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G4 Trim Machine	3.93	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G5 Compactor w-blade	269.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G5 Drilling & Boring Mach	1000	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G7 Roller, Compactor	171.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G6 Tractor	171.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G7 Oiler	1863	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Pile Driver Foreman	550	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Pile Driver Wharf and Dock	2200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Teamster G1 Hwy ED<6cy, Flatbed	1553.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Teamster G2 Hwy ED 6-8cy, Water<7	1255.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Teamster G4 ED 25-65 Cy	11.8	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-30					
SF - Central - 31	Carpenter Apprentice	350	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Carpenter Foreman	7363.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Carpenter Journeyman	53266.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Cement Mason Foreman	1489.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Cement Mason Journeyman	5948.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Electrical Foreman	175	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Electrician Journeyman	600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Iron Worker Foreman	8058	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Iron Worker Journeyman Rebar/Stru	49182.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Laborer Foreman	1203.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Laborer G1 Vibrator, Green Cutter	661.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Laborer G2 Concrete Laborer	10972.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Laborer G2 General	32075.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Laborer G3 Dumpman	33.33	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	OPERATING ENGINEER FOREMAN	8576	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	OPERATOR - MECHANIC	3524.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G1 Excavator >7CY	205.39	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G1a Cranes>100 t	4408.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G2 Excavator 3.5 to 7.0 cy	610	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 31	Operator G2 Finish Blade	215.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G3 BH-Loader>3/4cy	7727.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G2 Plant Operator	11973.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G2a Cranes 45 to 100 t	4283.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G3 Loader >4cy	4368.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G3a Cranes 45 t and under	4596.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G5 Concrete Pump	1380.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G4 Dozer & Push Cat	3925.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G4 Grade Check	7760.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G4 Hwy Duty Mechanic	132.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G5 Drilling & Boring Mach	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G5 Compactor w-blade	35.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G7 Oiler	8028.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Pile Driver Foreman	244	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Pile Driver Wharf and Dock	976	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Teamster G5 ED >65cy	1026.96	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Teamster G1 Hwy ED<6cy, Flatbed	8413.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Teamster G2 Hwy ED 6-8cy, Water<7	4262.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Teamster G3 Boom Truck	175	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Teamster G3 ED 8-24cy, Water>7mg;	17144.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Teamster G4 ED 25-65 Cy	610	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Teamster G4 Tractor, Lowbed/Trailer	401.9	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-31					
SF - Central - 32	Carpenter Apprentice	60	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Carpenter Foreman	980	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Carpenter Journeyman	3180	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Electrical Foreman	900	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Electrical Lineman	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Electrician Journeyman	2500	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Iron Worker Foreman	98	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Iron Worker Journeyman Rebar/Stru	508.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Iron Worker Rigger	518	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Laborer G2 Concrete Laborer	5169.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Laborer G2 General	1830.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Operator G1a Cranes>100 t	237.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Operator G2a Cranes 45 to 100 t	1018	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Operator G3 BH-Loader>3/4cy	222.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Operator G3a Cranes 45 t and under	616.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Operator G4a Boom truck<15 ton	616.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Pipefitter Apprentice	888.89	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Pipefitter Foreman	222.22	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Pipefitter Journeyman	2133.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Teamster G1 Hwy ED<6cy, Flatbed	734	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Teamster G4 Tractor, Lowbed/Trailer	222.2	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-32					
SF - Central - 33	Bullgang Foreman	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Bullgang Laborer	1600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Carpenter	1892	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Carpenter Foreman	287	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Compactor Operator	648	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Dozer Operator	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Flagger	648	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Flat Truck Driver	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	General Foreman	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	General Laborer	1772	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Grade Setter / Checker	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Grader Operator	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Hyd Crane Operator	2201	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Iron Worker	5000	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Iron Worker Foreman	500	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Laborer G2 General	17040	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Loader Operator	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Mechanic / Welder	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Operating Engineer	5680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Operator G2 Plant Operator	11360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Operator G3 BH Loader	5680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Operator G3a Crane	5680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Operator G4 Grade Check	5680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Operator G4 Heavy Duty Mechanic	5680	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-33					
SF - Central - 34	Bottomlander	247	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Bullgang Foreman	16	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Bullgang Laborer	32	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Carpenter	1272.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Carpenter Foreman	318	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Concrete Superintendent	3360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Cost Engineer	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Crane Oiler	2118	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Dozer Operator	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Electrical Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	EMT	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Environmental Manager	5644.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Equipment Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Excavator Operator	405.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Field Engineer	5040	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Flat Truck Driver	16	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	General Foreman	1658	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	General Laborer	8479.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	General Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Geotechnical Manager	5644.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Grade Setter / Checker	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Grader Operator	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Hyd Crane Operator	1598.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Iron Worker	9158.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Iron Worker Foreman	1633.1	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 34	Lead Miner	697.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Loader Operator	1028.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Mechanic/Welder	1294	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Miner	6192.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Office Administrator	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Office Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Project Engineer	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Project Manager	5644.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	QC Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	QC Technician	3360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Runner	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Safety Engineer	13440	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Safety Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Schedule Engineer	3360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Shaft Crane Operator	2365	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Shift Engineers	13440	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Shifter	2312.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Survey Party Chief	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Survey Rod Man	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Toplander	1447	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Truck Driver	3964.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Tunnel Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Tunnel Walkers	13440	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-34					
SF - Central - 35	Bottomlander	1330.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Bulgang Foreman	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Bullgang Laborer	960	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Concrete Pump Operator	295	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Crane Oiler	1924.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Electrician	1279.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Heavy Duty Mechanic Welder	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Hyd Crane Operator	760	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Iron Worker	3948.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Iron Worker Foreman	493.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Lead Miner	1423	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Master Mechanic	480	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Mechanic/Welder	1688	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Miner	9831.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Shaft Crane Operator	1976.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Shifter	1494	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Toplander	1816.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Truck Driver	2179.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-35					
SF - Central - 36	Bottomlander	9170	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Bullgang Foreman	7693.9	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Bullgang Laborer	25595.5	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Conveyor Belt Man	4700	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Crane Oiler	9170	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Dozer Operator	4600	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Electrician	11350	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Fanline Carrier Operator	5000	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Flat Truck Driver	2590	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Hyd Crane Operator	5580	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Lead Miner	5750	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Loader Operator	4600	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Man Transport Truck Operator	5103.9	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Master Mechanic	2500	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Mechanic/Welder	16440	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Miner	43620	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Operating Engineer	4600	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Operator G2 Plant Operator	4600	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Segment Carrier Operator	32000	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Shaft Crane Operator	9170	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Shifter	5750	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	TBM Operator	10200	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Toplander	9170	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Utility Truck Operator	5103.9	20	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-36					
SF - Central - 37	Bottomlander	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Bullgang Foreman	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Bullgang Laborer	600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Crane Oiler	815	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Electrician	1854	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Forklift Operator	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Heavy Duty Mechanic Welder	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Hyd Crane Operator	815	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Lead Miner	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Master Mechanic	300	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Mechanic/Welder	1854	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Miner	4504	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Shaft Crane Operator	1139	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Shifter	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Toplander	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Utility Truck Operator	174	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-37					
SF - Central - 38	Bottomlander	247	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Bullgang Foreman	16	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Bullgang Laborer	32	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Carpenter Foreman	318	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Carpenter	1272.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Compactor Operator	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Concrete Superintendent	3360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Cost Engineer	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Crane Oiler	2118	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 38	Dozer Operator	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Electrical Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	EMT	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Environmental Manager	5644.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Equipment Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Excavator Operator	405.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Field Engineer	5040	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Flat Truck Driver	16	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	General Foreman	1658	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	General Laborer	10137.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	General Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Geotechnical Manager	5644.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Grade Setter / Checker	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Grader Operator	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Hyd Crane Operator	1698.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Iron Worker	9158.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Iron Worker Foreman	1633.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Lead Miner	798.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Loader Operator	1028.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Mechanic/Welder	655	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Miner	6992.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Office Administrator	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Office Manager	5644.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Operating Engineer	2133	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Operator G2 Plant Operator	4266	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Operator G3 BH-1 Loader	2133	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Operator G3a Cranes 45 Ton	2133	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Operator G4 Grade Check	2133	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Operator G4 Heavy Duty Mechanic	2133	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Project Engineer	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Project Manager	5644.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	QC Manager	5644.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	QC Technician	3360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Runner	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Safety Engineer	13440	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Safety Manager	5644.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Schedule Engineer	3360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Shaft Crane Operator	2365	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Shift Engineers	13440	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Shifter	2413.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Survey Party Chief	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Survey Rod Man	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Teamster G1 Hwy	2133	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Teamster G2 Hwy	2133	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Toplander	1447	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Truck Driver	3971.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Tunnel Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Tunnel Walkers	13440	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-38					
SF - Central - 39	Bottomlander	1330.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Bullgang Foreman	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Bullgang Laborer	960	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Concrete Pump Operator	295	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Crane Oiler	1924.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Electrician	1279.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Heavy Duty Mechanic Welder	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Hyd Crane Operator	660	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Iron Worker	3948.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Iron Worker Foreman	493.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Lead Miner	1323	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Master Mechanic	480	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Mechanic/Welder	1688	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Miner	9031.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Shaft Crane Operator	1976.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Shifter	1394	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Toplander	1816.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Truck Driver	2185.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-39					
SF - Central - 40	Bottomlander	9181	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Bullgang Foreman	7609	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Bullgang Laborer	25429.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Conveyor Belt Man	4710	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Crane Oiler	9181	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Dozer Operator	4610	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Electrician	11360	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Fanline Carrier Operator	5000	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Flat Truck Driver	2504	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Hyd Crane Operator	5408	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Lead Miner	5760	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Loader Operator	4610	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Man Transport Truck Operator	5105.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Master Mechanic	2500	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Mechanic/Welder	18864	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Miner	43728	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Operating Engineer	4610	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Operator G2 Plant Operator	4610	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Segment Carrier Operator	32030	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Shaft Crane Operator	9181	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Shifter	6475	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	TBM Operator	10220	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Toplander	9181	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Utility Truck Operator	5105.3	20	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-40					
SF - Central - 41	Bottomlander	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Bullgang Foreman	100	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 41	Bullgang Laborer	600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Crane Oiler	815	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Electrician	1854	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Forklift Operator	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Heavy Duty Mechanic Welder	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Hyd Crane Operator	815	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Lead Miner	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Master Mechanic	300	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Mechanic/Welder	1854	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Miner	4504	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Shaft Crane Operator	1139	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Shifter	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Toplander	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Utility Truck Operator	174	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-41					
SF - Central - 42	Bullgang Foreman	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Bullgang Laborer	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Carpenter	252	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Carpenter Foreman	63	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Compactor Operator	4256.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Concrete Superintendent	8265.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Cost Engineer	16531.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Dozer Operator	4054.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Electrical Superintendent	16531.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	EMT	16531.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Environmental Manager	16531.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Equipment Superintendent	16531.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Field Engineer	12398.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Flagger	404	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Flat Truck Driver	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	General Foreman	202	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	General Laborer	530	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	General Superintendent	16531.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Geotechnical Manager	16531.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Grade Setter / Checker	4054.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Grader Operator	4054.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Hyd Crane Operator	863	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Laborer G2 General	10641	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Loader Operator	202	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Mechanic/Welder	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Office Administrator	16531.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Office Manager	16531.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Operating Engineer	3547	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Operator G2 Plant Operator	7094	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Operator G3 BH-1 Loader	3547	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Operator G3a Cranes 45 Ton	3547	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Operator G4 Grade Check	3547	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Operator G4 Heavy Duty Mechanic	3547	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Project Engineer	16531.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Project Manager	16531.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	QC Manager	16531.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	QC Technician	8265.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Runner	16531.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Safety Engineer	33062.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Safety Manager	16531.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Schedule Engineer	8265.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Shift Engineers	33062.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Survey Party Chief	16531.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Survey Rod Man	16531.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Teamster G1 Hwywy	3547	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Teamster G2 Hwywy	3547	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Truck Driver	3852.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Tunnel Superintendent	16531.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Tunnel Walkers	33062.4	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-42					
SF - Central - 43	Bottomlander	236.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Bullgang Foreman	15.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Bullgang Laborer	30.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Carpenter	2361	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Carpenter Foreman	464.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Compactor Operator	233.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Crane Oiler	1746.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Dozer Operator	116.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Excavator Operator	388	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Flagger	233.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Flat Truck Driver	15.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	General Foreman	1629	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	General Laborer	8791.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Grade Setter / Checker	116.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Grader Operator	116.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Hyd Crane Operator	2079.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Iron Worker	12941.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Iron Worker Foreman	1906.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Lead Miner	689.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Loader Operator	1100.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Mechanic/Welder	1164.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Miner	6099.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Shaft Crane Operator	1983	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Shifter	2087.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Toplander	1252.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Truck Driver	1261.4	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-43					
SF - Central - 44	Bottomlander	737	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Concrete Pump Operator	251.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Crane Oiler	1083	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 44	Electrician	119.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Iron Worker	3196.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Iron Worker Foreman	399.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Lead Miner	735.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Mechanic Welder	484.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Miner	4331	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Shaft Crane Operator	1135	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Shifter	806.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Toplander	1135	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Truck Driver	1275.1	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-44					
SF - Central - 45	Compactor Operator	2901.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	Dozer Operator	4214.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	General Foreman	18.35	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	Grade Setter / Checker	4177.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	Grader 16H - 16' Blade	36.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	Grader Operator	7115.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	Loader Operator	1276.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	Operator G4 Grade Check	18.35	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	Scraper Operator	73.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	Truck Driver	4177.7	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-45					
SF - Central - 46	Bottomlander	236.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Bullgang Foreman	91.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Bullgang Laborer	183.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Carpenter	1691.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Carpenter Foreman	362.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Compactor Operator	3445	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Crane Oiler	1746.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Dozer Operator	3445	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Excavator Operator	388	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Flat Truck Driver	91.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	General Foreman	1512.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	General Laborer	7862.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Grade Setter / Checker	3445	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Grader Operator	3445	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Hyd Crane Operator	1704.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Iron Worker	8023.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Iron Worker Foreman	1414.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Lead Miner	689.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Loader Operator	983	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Mechanic/Welder	1240.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Miner	6099.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Shaft Crane Operator	1983	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Shifter	2087.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Toplander	1252.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Truck Driver	4444.2	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-46					
SF - Central - 47	Bottomlander	704.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Bullgang Foreman	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Bullgang Laborer	960	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Concrete Pump Operator	240.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Crane Oiler	1196	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Electrician	274	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Heavy Duty Mechanic Welder	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Hyd Crane Operator	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Iron Worker	3057.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Iron Worker Foreman	382.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Lead Miner	703.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Master Mechanic	480	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Mechanic/Welder	623.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Miner	4142.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Shaft Crane Operator	1245.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Shifter	771.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Toplander	1085.7	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-47					
SF - Central - 48	Bottomlander	29185.2	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Bullgang Foreman	27792.4	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Bullgang Laborer	93607.8	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Conveyor Belt Man	17593.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Crane Oiler	29185.2	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Dozer Operator	7302.5	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Electrician	38618.9	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Fanline Carrier Operator	18799.2	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Flat Truck Driver	8780.9	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Hyd Crane Operator	18317.8	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Lead Miner	18895.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Loader Operator	7302.5	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Master Mechanic	9399.6	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Mechanic/Welder	56799.4	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Miner	143093.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Operating Engineer	11760	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Operator G2 Plant Operator	11760	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Segment Carrier Operator	120892.8	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Shaft Crane Operator	29185.2	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Shifter	18895.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	TBM Operator	31905.6	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Toplander	29185.2	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Truck Driver	4704	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Utility Truck Operator	19011.5	20	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-48					
SF - Central - 49	Bottomlander	1282.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Bullgang Foreman	176.5	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 49	Bullgang Laborer	753	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Crane Oiler	815	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Electrician	2097.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Flat Truck Driver	76.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Forklift Operator	567.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Heavy Duty Mechanic Welder	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Hyd Crane Operator	968	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Lead Miner	1282.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Master Mechanic	300	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Mechanic/Welder	2173.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Miner	5963.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Shaft Crane Operator	1382.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Shifter	1282.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Toplander	1282.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Utility Truck Operator	417.3	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-49					
SF - Central - 50	Carpenter Apprentice	384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 50	Carpenter Foreman	384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 50	Electrical Foreman	192	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 50	Electrician Journeyman	384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 50	Iron Worker Journeyman Rebar/Stru	768	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 50	Laborer G2 General	768	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 50	Millwright	384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 50	Operator G2a Cranes 45 to 100 t	384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 50	Teamster G3 Boom Truck	192	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-50					
SF - Central - 51	Carpenter Apprentice	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 51	Carpenter Foreman	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 51	Electrical Foreman	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 51	Electrician Journeyman	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 51	Iron Worker Journeyman Rebar/Stru	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 51	Laborer G2 General	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 51	Millwright	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 51	Operator G2a Cranes 45 to 100 t	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 51	Teamster G3 Boom Truck	200	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-51					
SF - Central - 52	Laborer G4 Clean-up	34209.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 52	OPERATING ENGINEER FOREMAN	17104.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 52	Operator G2 Micro Tunnel	2883	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 52	Operator G2 Plant Operator	14221.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 52	Operator G3 Loader >4cy	34209.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 52	Operator G4 Loader <4.1cy	5766	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 52	Operator G5 Concrete Pump	11839	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 52	Operator G7 Oiler	5265.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 52	Operator G8a Skidsteer <Bobcat 743	11839	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-52					
SF - Central - 53	Laborer G2 General	404	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 53	OPERATING ENGINEER FOREMAN	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 53	Operator G3 BH-Loader>3/4cy	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 53	Operator G4 Grade Check	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 53	Operator G5 Asphalt Roller	202	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 53	Operator G5 Paver	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 53	Teamster G2 Hwy ED 6-8cy, Water<7	50.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-53					
SF - Central - 54	Laborer G2 General	404	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 54	OPERATING ENGINEER FOREMAN	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 54	Operator G3 BH-Loader>3/4cy	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 54	Operator G4 Grade Check	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 54	Operator G5 Asphalt Roller	202	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 54	Operator G5 Paver	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 54	Teamster G2 Hwy ED 6-8cy, Water<7	50.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-54					
SF - Central - 55	Laborer G2 Concrete Laborer	600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Laborer G2 General	280	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Laborer G3 Flagman	880	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	OPERATING ENGINEER FOREMAN	720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Operator G2 Excavator 3.5 to 7.0 cy	1200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Operator G2 Finish Blade	210	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Operator G3 Loader >4cy	40	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Operator G4 Dozer & Push Cat	3180	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Operator G4 Scraper	2000	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Operator G6 Tractor	640	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Teamster G2 Hwy ED 6-8cy, Water<7	4600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Teamster G4 ED 25-65 Cy	200	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-55					

Marine Inventory for Southern Complex on Byron Tract - Central
Option 5

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Southern Complex on Byron Tract - Central
Option 5

Code	# day	Locomotive Type	From Depot Site	Delivery Depot	Rail Cars	Rail Cars/Day	Main Railroad	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
SF - Central - 5	21	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 7	500	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 9	201	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 10	85	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 11	293	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 12	721	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 14	908	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 15	263	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 16	147	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 18	28	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 19	317	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 20	679	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 22	269	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 23	222	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 24	183	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 26	1356	Cement, Aggregate, Sand, Flyash, B	Stockton	Southern Complex	2398	1.8	UPRR						
SF - Central - 27	26	Soil Material	Stockton	Southern Complex	24052	925.1	UPRR						
SF - Central - 29	187	Riprap	Stockton	Southern Complex	3443	18.4	UPRR						
SF - Central - 30	186	Cement, Aggregate, Sand, Flyash, R	Stockton	Southern Complex	393	2.1	UPRR						
SF - Central - 31	676	Cement, Aggregate, Sand, Flyash, B	Stockton	Southern Complex	950	1.4	UPRR						
SF - Central - 34	747	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 35	90	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 37	38	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 39	460	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 41	37	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 44	101	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						

Helicopter Inventory for Southern Complex on Byron Tract - Central Option 5

For 36 new transmission towers along 8.3 miles of new 230 kV line

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
SF - Central 5			2		

Earthmoving/Paving Assumptions for Southern Complex on Byron Tract - Central
Option 5

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
SF - Central - 1		208									
SF - Central - 2		324									
SF - Central - 3		253		90891	359	238663	943				
SF - Central - 4		318		48121	151	100678	317			1403505	4414
SF - Central - 5	30.7	21	1.5			14400	686				
SF - Central - 7		500								243302.4	487
SF - Central - 9		201		960	5	4800	24				
SF - Central - 10		85				4272	50				
SF - Central - 11		293		68391	233	28061.6	96				
SF - Central - 12		721		156140.7	217						
SF - Central - 13		792		69732.5	88	4601.3	6				
SF - Central - 14		908		112320	124		0				
SF - Central - 15B		142		191136	1346	22486.6	158				
SF - Central - 16		147				4336	29				
SF - Central - 17		31				652.9	21				
SF - Central - 18		28				1451	52				
SF - Central - 19		317				16098	51			224118	707
SF - Central - 20		679					0				
SF - Central - 22		269					0				
SF - Central - 23		222		150974	680	185339	835			126720	571
SF - Central - 24	921	183	5.0				0				
SF - Central - 25		393		2799911	7124	70220	179				
SF - Central - 26		1356				9774800	7209				
SF - Central - 27		26									
SF - Central - 28		2276									
SF - Central - 29	3	187	0.02		0	344210	1841				
SF - Central - 30		186		61000	328	102835	553				
SF - Central - 31		676		154044	228	2000	3				
SF - Central - 32		97									
SF - Central - 33		255									
SF - Central - 34		747		109000	146	135982	182				
SF - Central - 35		90									
SF - Central - 36		313									
SF - Central - 37		38									
SF - Central - 38		391		109027	279	135982	348				
SF - Central - 39		460									
SF - Central - 40		345									
SF - Central - 42		1566				153677	98				
SF - Central - 43		239		87973.2	368						
SF - Central - 44		101		142728	1413						
SF - Central - 45		166		136924.4							
SF - Central - 46		442		87973.2	199	151582.5	343				
SF - Central - 48		1342		3165.6	2						
SF - Central - 49		70									
SF - Central - 50		40									
SF - Central - 51		85								431730	35978
SF - Central - 53		12								431730	39248
SF - Central - 54		11									
SF - Central - 55	376	255	1.5			983488	3857				

**Demolition Assumptions for Southern Complex on Byron Tract - Central
Option 5**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Southern Complex West of Byron Highway - South Delta Conv - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Mobilization - Gravel Bedding, Formwork, Rebar, Concrete for Slabs	SDC - Central & Eastern - 1	6/19/2030	8/22/2030	46	5	10
Roads, Utilities, Construction Office, Shops, Other Structures	SDC - Central & Eastern - 2	6/25/2030	10/11/2030	80	5	10
Utility, Facility, and Plant Operations	SDC - Central & Eastern - 3	10/14/2030	3/17/2037	1675	5	10
Tunnel Outlet Excavation & Cofferdam	SDC - Central & Eastern - 4	5/8/2030	5/8/2031	261	5	10
South Delta Tunnel Outlet Structure Excavation, Sheet Piles, Forms	SDC - Central & Eastern - 5	5/8/2030	5/6/2031	259	5	10
Reception Shaft - East: Slurry Wall and Guide Wall	SDC - Central & Eastern - 6	5/7/2031	9/12/2031	93	5	10
Reception Shaft - East: Tremie Seal	SDC - Central & Eastern - 7	9/8/2031	9/16/2031	9	7	24
Reception Shaft - East: Dewater Shaft	SDC - Central & Eastern - 8	9/22/2031	9/26/2031	5	5	10
Reception Shaft - East: Tunnel Cradle	SDC - Central & Eastern - 9	9/29/2031	10/6/2031	5	5	10
Reception Shaft - East: Slurry Wall Breakout	SDC - Central & Eastern - 10	10/7/2031	10/31/2031	19	5	10
Reception Shaft - East: Assemble Shaft with Concrete	SDC - Central & Eastern - 11	10/27/2031	1/6/2032	52	5	10
Reception Shaft - West: Slurry Wall and Guide Wall	SDC - Central & Eastern - 12	7/10/2031	12/9/2031	111	5	10
Reception Shaft - West: Tremie Seal	SDC - Central & Eastern - 13	2/6/2032	2/16/2032	10	7	24
Reception Shaft - West: Dewater Shaft	SDC - Central & Eastern - 14	2/20/2032	2/26/2032	5	5	10
Reception Shaft - West: Tunnel Cradle	SDC - Central & Eastern - 15	2/27/2032	3/5/2032	6	5	10
Reception Shaft - West: Slurry Wall Breakout	SDC - Central & Eastern - 16	3/8/2032	4/1/2032	19	5	10
Reception Shaft - West: Assemble Shaft with Concrete	SDC - Central & Eastern - 17	4/2/2032	6/14/2032	54	5	10
Calif Aqueduct Div Channel Excavation and Earthwork	SDC - Central & Eastern - 18	5/8/2030	10/18/2032	640	5	10
Calif Aqueduct Control Structure: Cofferdam	SDC - Central & Eastern - 19	2/3/2031	1/22/2032	350	5	10
Calif Aqueduct Control Structure: Construct Concrete Slabs and Fram	SDC - Central & Eastern - 20	1/8/2032	12/24/2032	250	5	10
Calif Aqueduct Control Structure: Remove Cofferdam	SDC - Central & Eastern - 21	1/25/2033	4/15/2033	59	5	10
Calif Aqueduct Control Structure: Construct Walls	SDC - Central & Eastern - 22	5/25/2032	9/27/2032	90	5	10
Calif Aqueduct Control Structure: Weir and Bridge	SDC - Central & Eastern - 23	9/28/2032	12/3/2032	49	5	10
Calif Aqueduct Control Structure: Gates and Stoplogs	SDC - Central & Eastern - 24	12/3/2032	4/21/2033	100	5	10
South Delta Tunnel Outlet: Excavation	SDC - Central & Eastern - 25	4/24/2034	4/13/2035	253	5	10
South Delta Tunnel Outlet Structure: Construct Slabs and Walls	SDC - Central & Eastern - 26	4/24/2034	7/30/2036	592	5	10
South Delta Tunnel Outlet Building: Construct Slabs and Walls	SDC - Central & Eastern - 27	6/27/2035	1/6/2037	660	5	10
South Delta Tunnel Outlet Building: Gates and Stoplogs	SDC - Central & Eastern - 28	4/2/2036	1/16/2037	208	5	10
South Delta Tunnel Outlet Building: Remove Cofferdam and Construc	SDC - Central & Eastern - 29	1/6/2037	3/17/2037	51	5	10
Southern Complex West of Byron Highway: Site Restoration	SDC - Central & Eastern - 30	1/27/2037	5/4/2037	70	5	10

Total Site Acres

150

APPENDIX F – ATTACHMENT 4

Project Design Capacity 4,500 cfs

FINAL DRAFT

Construction Schedule for Intake 3 Haul Rd - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	I3 HRd-C&E Access -1	6/25/2027	7/8/2027	14	5	10
Embankment	I3 HRd-C&E Access -2	7/9/2027	7/15/2027	5	5	10
Culvert Pipe	I3 HRd-C&E Access -3	7/16/2027	7/19/2027	3	3	10
Subdrain System	I3 HRd-C&E Access -4	7/20/2027	8/4/2027	14	5	10
Road Base	I3 HRd-C&E Access -5	8/5/2027	8/24/2027	15	5	10
Asphalt Paving	I3 HRd-C&E Access -6	8/25/2027	8/30/2027	5	5	10
KRail and Signs	I3 HRd-C&E Access -7	8/31/2027	8/31/2027	1	1	10
Intermediate Overlay	I3 HRd-C&E Access -8	6/17/2030	6/17/2030	1	1	10
Final Overlay	I3 HRd-C&E Access -9	8/18/2037	8/19/2037	2	2	10

Acres 0.4

Construction Schedule for Intake 5 Haul Rd - Central & Eastern Access Road

All Options

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	I5 HRd-C&E Access -1	4/9/2027	4/26/2027	14	5	10
Embankment	I5 HRd-C&E Access -2	4/27/2027	5/3/2027	5	5	10
Culvert Pipe	I5 HRd-C&E Access -3	5/4/2027	5/5/2027	3	3	10
Subdrain System	I5 HRd-C&E Access -4	5/6/2027	5/25/2027	14	5	10
Road Base	I5 HRd-C&E Access -5	5/26/2027	6/16/2027	16	5	10
Asphalt Paving	I5 HRd-C&E Access -6	6/17/2027	6/23/2027	5	5	10
KRail and Signs	I5 HRd-C&E Access -7	6/24/2027	6/24/2027	1	1	10
Intermediate Overlay	I5 HRd-C&E Access -8	5/15/2030	5/17/2030	3	3	10
Final Overlay	I5 HRd-C&E Access -9	7/1/2037	7/6/2037	5	5	10

Acres

1

Construction Schedule for Intake Haul Rd - Central & Eastern Access Road

Options 1, 2, 7, 8, 9, 10

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	IHRd-C&E Access -1	4/27/2026	7/20/2026	61	5	10
Embankment	IHRd-C&E Access -2	7/21/2026	9/24/2026	48	5	10
Culvert Pipe	IHRd-C&E Access -3	9/25/2026	10/1/2026	5	5	10
Subdrain System	IHRd-C&E Access -4	10/2/2026	12/17/2026	55	5	10
Road Base	IHRd-C&E Access -5	12/18/2026	2/25/2027	50	5	10
Asphalt Paving	IHRd-C&E Access -6	2/26/2027	4/7/2027	30	5	10
KRail and Signs	IHRd-C&E Access -7	4/8/2027	4/8/2027	1	1	10
Intermediate Overlay	IHRd-C&E Access -8	4/30/2030	5/10/2030	9	5	10
Final Overlay	IHRd-C&E Access -9	6/16/2037	7/29/2037	32	5	10

Acres **10.4**

NOTE: Access road between Intakes 2 and 3 are included in Intake 2 tables

Construction Schedule for Lambert Rd - Central & Eastern Access Road**For Intake Access Road Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B****THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1**

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	LRd-C&E Access -1	2/26/2027	3/2/2027	5	5	10
Culvert Pipe	LRd-C&E Access -2	3/3/2027	3/3/2027	1	1	10
Subdrain System	LRd-C&E Access -3	3/4/2027	3/18/2027	11	5	10
Road Base	LRd-C&E Access -4	3/19/2027	3/31/2027	10	5	10
Asphalt Paving	LRd-C&E Access -5	4/1/2027	4/6/2027	5	5	10
KRail and Signs	LRd-C&E Access -6	4/7/2027	4/20/2027	10	5	10
Intermediate Overlay	LRd-C&E Access -7	5/30/2030	6/7/2030	6	5	10
Final Overlay	LRd-C&E Access -8	7/29/2037	8/7/2037	8	5	10

Acres**12.5**

Construction Schedule for Hood-Franklin Park and Ride

For Intake Employees Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	HFPR -1	4/27/2026	7/31/2026	69	5	10
Embankment	HFPR -2	8/3/2026	8/13/2026	9	2	10
Culvert Pipe	HFPR -3	8/14/2026	8/19/2026	5	3	10
Subdrain System	HFPR -4	8/20/2026	8/25/2026	5	5	10
Road Base	HFPR -5	8/26/2026	10/6/2026	30	5	10
Asphalt Paving	HFPR -6	10/7/2026	11/23/2026	27	5	10
Electrical, Striping, and K-Rail Installation	HFPR -7	11/25/2026	11/27/2026	3	3	10

Acres

4.1

Construction Schedule for Hood-Franklin Road Overlay - Central & Eastern Access Road
 For Intake Access Employee Van - Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B
 THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	HFRd-C&E Overlay -1	11/24/2026	11/30/2026	5	5	10
Intermediate Overlay	HFRd-C&E Overlay -2	4/22/2030	4/29/2030	5	5	10
Final Overlay	HFRd-C&E Overlay -3	6/8/2037	6/16/2037	7	5	10
Acres	7.5					

Construction Schedule for SR160 Overlay - Central & Eastern Access Road
Intakes Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Initial Overlay	SR160 C&E Overlay -1	6/24/2027	7/14/2027	15	5	10
Intermediate Overlay	SR160 C&E Overlay -2	7/23/2030	8/12/2030	20	5	10
Final Overlay	SR160 C&E Overlay -3	8/26/2037	9/16/2037	20	5	10

Construction Schedule for Intake 3_3000 cfs_Central & Eastern**Options 1B, 2B, 7B, 8B, 9B, 10B - Tee Screens****THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1****NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION**

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Development of Initial Intake Box Culverts & Gantry Crane	Intake 3 - Central & Eastern - 1	1/1/2026	3/29/2026	64	5	10
Initial Concrete Placement for Sedimentation Basin	Intake 3 - Central & Eastern - 2	1/1/2026	4/29/2033	1677	5	10
Initial Temporary Buildings	Intake 3 - Central & Eastern - 3	2/11/2030	12/13/2030	220	5	10
Phase 1 Sitework	Intake 3 - Central & Eastern - 4	6/24/2030	6/11/2031	252	5	10
Use of Temporary Buildings	Intake 3 - Central & Eastern - 5	2/11/2030	11/27/2036	1772	5	10
Initial Roads and Move SR 160	Intake 3 - Central & Eastern - 6	5/2/2031	6/6/2031	26	5	10
Phase 2 Sitework - Foundations	Intake 3 - Central & Eastern - 7	6/6/2031	2/15/2033	446	5	10
Install Cofferdam	Intake 3 - Central & Eastern - 8	6/6/2031	12/22/2031	144	5	10
Construct Reception Shaft	Intake 3 - Central & Eastern - 9	8/27/2031	5/24/2032	195	5	10
Place Tremie Seal in Reception Shaft	Intake 3 - Central & Eastern - 10	5/25/2032	5/27/2032	2	2	24
Dewater Reception Shaft	Intake 3 - Central & Eastern - 11	5/28/2032	6/3/2032	5	5	10
Assemble Reception Shaft	Intake 3 - Central & Eastern - 12	6/4/2032	9/2/2032	65	5	10
Intake Structure within Cofferdam	Intake 3 - Central & Eastern - 13	12/31/2031	11/30/2033	500	5	10
Intake Connections and Gates	Intake 3 - Central & Eastern - 14	1/22/2032	1/9/2034	513	5	10
Piles and Concrete in Sedimentation Basin	Intake 3 - Central & Eastern - 15	5/17/2032	3/4/2033	210	5	10
Move SR 160 to Final Location	Intake 3 - Central & Eastern - 16	12/28/2032	2/1/2033	26	5	10
Finish Box Culverts	Intake 3 - Central & Eastern - 17	2/15/2033	3/1/2033	9	5	10
Basin Embankments, Gates, Buildings, and Substation	Intake 3 - Central & Eastern - 18	3/1/2033	3/29/2034	281	5	10
Sedimentation Basin Mechanical and Electrical	Intake 3 - Central & Eastern - 19	4/29/2033	3/21/2034	234	5	10
Install Fish Screen, Appurtenant Facilities, Log Boom, and Rip Rap	Intake 3 - Central & Eastern - 20	6/27/2033	7/20/2034	278	5	10
Remove Cofferdam	Intake 3 - Central & Eastern - 21	2/24/2034	9/21/2034	129	5	10
Finish Site Work, Sedimentation Basin Curtain, and Fencing	Intake 3 - Central & Eastern - 22	2/19/2035	7/22/2036	371	5	10
Finish Sedimentation Basin	Intake 3 - Central & Eastern - 23	8/1/2036	10/2/2036	45	5	10
Finish Intake Exteriors	Intake 3 - Central & Eastern - 24	10/3/2036	11/27/2036	39	5	10
Site Restoration	Intake 3 - Central & Eastern - 25	11/28/2036	3/2/2037	69	5	10

Total Site Acres**240**

**Construction Schedule for Intake 5_1500 cfs_Central & Eastern
Options 7B, 8B - Tee Screens**

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Development of Initial Intake Box Culverts & Gantry Crane	Intake 5 - Central & Eastern - 1	1/1/2026	3/13/2026	51	5	10
Initial Temporary Buildings	Intake 5 - Central & Eastern - 2	6/7/2029	12/26/2029	145	5	10
Phase 1 Sitework	Intake 5 - Central & Eastern - 3	12/26/2029	10/30/2030	222	5	10
Operations of Temporary Buildings	Intake 5 - Central & Eastern - 4	12/26/2029	3/8/2034	1096	5	10
Phase 2 Sitework - Foundations	Intake 5 - Central & Eastern - 5	10/24/2030	4/2/3032	399	5	10
Initial Roads and Move SR 160	Intake 5 - Central & Eastern - 6	9/26/2030	10/24/2030	21	5	10
Install Cofferdam	Intake 5 - Central & Eastern - 7	10/24/2030	3/20/2031	106	5	10
Construct Reception Shaft	Intake 5 - Central & Eastern - 8	2/28/2031	7/21/2031	105	5	10
Place Tremie Seal in Reception Shaft	Intake 5 - Central & Eastern - 9	7/26/2031	7/28/2031	3	3	24
Dewater Reception Shaft	Intake 5 - Central & Eastern - 10	7/29/2031	8/4/2031	7	7	24
Assemble Reception Shaft	Intake 5 - Central & Eastern - 11	8/11/2031	12/1/2031	80	5	10
Intake Structure within Cofferdam	Intake 5 - Central & Eastern - 12	3/20/2032	3/29/2034	530	5	10
Piles and Concrete in Sedimentation Basin	Intake 5 - Central & Eastern - 13	6/9/2032	3/9/2033	196	5	10
Intake Connections and Gates	Intake 5 - Central & Eastern - 14	3/9/2033	11/2/2034	432	5	10
Sedimentation Basin Mechanical and Electrical	Intake 5 - Central & Eastern - 15	3/9/2033	1/5/2034	215	5	10
Finish Box Culverts	Intake 5 - Central & Eastern - 16	8/6/2031	8/8/2031	3	5	10
Install Fish Screen, Appurtenant Facilities, Log Boom, and Rip Rap	Intake 5 - Central & Eastern - 17	9/9/2033	12/5/2034	63	5	10
Move SR 160 to Final Location	Intake 5 - Central & Eastern - 18	10/6/2033	11/17/2033	31	5	10
Basin Embankments, Gates, Buildings, and Substation	Intake 5 - Central & Eastern - 19	11/18/2033	8/25/2034	200	5	10
Remove Cofferdam - Phase 1	Intake 5 - Central & Eastern - 20	3/21/2034	7/13/2034	83	5	10
Remove Cofferdam - Phase 2	Intake 5 - Central & Eastern - 21	11/1/2034	1/3/2035	46	5	10
Finish Site Work, Sedimentation Basin Curtain, and Fencing	Intake 5 - Central & Eastern - 22	12/23/2035	5/1/2035	95	5	10
Finish Intake Exteriors	Intake 5 - Central & Eastern - 23	5/11/2035	6/27/2035	34	5	10
Site Restoration	Intake 5 - Central & Eastern - 24	6/27/2035	9/9/2035	53	5	10
Finish Sedimentation Basin	Intake 5 - Central & Eastern - 25	3/16/2035	4/10/2035	40	5	10

Total Site Acres

240

Vehicle Inventory for Intake 5_1500 cfs_Central & Eastern - Tee Screens
Options 7B, 8B

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Code	Equipment Name	General Equipment C	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if	Load Factor	Fuel Efficiency (gal./day)	Fuel (gal./day) (if known)
Intake 5 - Central & Eastern - 1	Grove RT Crane 30T	Crane	120	51	2.4	Diesel	160	0.29		
Intake 5 - Central & Eastern - 2	400A Diesel Welder, Trailer Mounted	Welders	33.3	145	0.2	Diesel	22	0.45		
Intake 5 - Central & Eastern - 2	Air Compressor 185 cfm	Air Compressor	2116.9	145	14.6	Diesel Tier 4	49	0.48		
Intake 5 - Central & Eastern - 2	Boom Truck, 12.5 Tn Boom	Crane	1978.4	145	13.6	Diesel or Hybrid	100	0.29		
Intake 5 - Central & Eastern - 2	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loader	213.3	145	1.5	Diesel	110	0.36		
Intake 5 - Central & Eastern - 2	CAT 12 M	Grader	1144.3	145	7.9	Diesel	173	0.41		
Intake 5 - Central & Eastern - 2	CAT 14 M	Grader	130	145	0.9	Diesel	274	0.41		
Intake 5 - Central & Eastern - 2	Cat 613 C Self Loading Scraper	Scraper	96	145	0.7	Diesel	187	0.48		
Intake 5 - Central & Eastern - 2	CAT 631G Scraper, Conventional	Scraper	134.9	145	0.9	Diesel	515	0.48		
Intake 5 - Central & Eastern - 2	CAT 815, Roller	Roller	45	145	0.3	Diesel	170	0.38		
Intake 5 - Central & Eastern - 2	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	220	145	1.5	Diesel or Hybrid	130	0.36		
Intake 5 - Central & Eastern - 2	CAT 962 H Wheel Loader	Rubber Tired Loader	59.5	145	0.4	Diesel	230	0.36		
Intake 5 - Central & Eastern - 2	CAT CS-74, Roller, 17 tn, 156 HP	Rollers	1256	145	8.7	Diesel	156	0.38		
Intake 5 - Central & Eastern - 2	CAT D3 LGP, Dozer	Crawler Tractor	14.1	145	0.1	Diesel or Hybrid	76	0.43		
Intake 5 - Central & Eastern - 2	CAT D6LGPDozer w winch	Crawler Tractor	93	145	0.6	Diesel or Hybrid	179	0.43		
Intake 5 - Central & Eastern - 2	CAT D9R, Dozer w ripper	Crawler Tractor	2294/2	145	16	Diesel	410	0.43		
Intake 5 - Central & Eastern - 2	CAT LOADER/HOE 416 E	Rubber Tired Loaders	2294.2	145	15.8	Diesel	78	0.36		
Intake 5 - Central & Eastern - 2	Compactor, Plate, 22"x x 35"	Plate Compactors	106.7	145	0.7	Diesel	8.5	0.43		
Intake 5 - Central & Eastern - 2	Compactor, Trench Roller, Vib 32"xw	Rollee	7.6	145	0.1	Diesel	20	0.38		
Intake 5 - Central & Eastern - 2	Concrete Vibrator, 2"	Other Construction Eq	33.3	145	0.2	Gasoline	3	0.42		
Intake 5 - Central & Eastern - 2	Disk, Towed	Off Highway Tractor	45	145	0.3	Diesel	140	0.44		
Intake 5 - Central & Eastern - 2	Grove RT Crane 55T, 247 hp	Crane	66.7	145	0.5	Diesel	247	0.29		
Intake 5 - Central & Eastern - 2	Grove RT Crane 80T, 275hp	Crane	288	145	2.0	Diesel	275	0.29		
Intake 5 - Central & Eastern - 2	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	7.5	145	0.1	Diesel	345	0.38		
Intake 5 - Central & Eastern - 2	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	2116.9	145	14.6	Diesel	75	0.31		
Intake 5 - Central & Eastern - 2	Portable, 20 Kw, Diesel, 36HP	Welders	33.3	145	0.2	Diesel Tier 4	36	0.45		
Intake 5 - Central & Eastern - 2	Water Pump, 4" Diesel	Pumps	53.4	145	0.4	Diesel	10	0.74		
Intake 5 - Central & Eastern - 2	Water Pump,3" Gas, Diaphragm	Pumps	33.3	145	0.2	Gasoline	10	0.74		
Intake 5 - Central & Eastern - 3	Air Compressor 185 cfm	Air Compressor	154	222	0.7	Diesel Tier 4	49	0.48		
Intake 5 - Central & Eastern - 3	Air Compressor 375 cfm	Air Compressor	10158.8	222	45.8	Diesel Tier 4	122	0.48		
Intake 5 - Central & Eastern - 3	Boom Truck, 12.5 Tn Boom	Crane	274	222	1.2	Diesel or Hybrid	100	0.29		
Intake 5 - Central & Eastern - 3	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loader	10158.8	222	45.8	Diesel	110	0.36		
Intake 5 - Central & Eastern - 3	CAT 12 M	Grader	6.9	222	0.0	Diesel	173	0.41		
Intake 5 - Central & Eastern - 3	CAT 14 M	Grader	1128.5	222	5.1	Diesel	274	0.41		
Intake 5 - Central & Eastern - 3	CAT 311, 0.69 cy, 70 hp	Excavator	120	222	0.5	Diesel	70	0.38		
Intake 5 - Central & Eastern - 3	Cat 613 C Self Loading Scraper	Scraper	1816.4	222	8.2	Diesel	187	0.48		
Intake 5 - Central & Eastern - 3	CAT 825, Roller	Roller	852.4	222	3.8	Diesel	315	0.38		
Intake 5 - Central & Eastern - 3	CAT 962 H Wheel Loader	Rubber Tired Loader	12.7	222	0.1	Diesel	230	0.36		
Intake 5 - Central & Eastern - 3	CAT CS-74, Roller, 17 tn, 156 HP	Rollers	139.2	222	0.6	Diesel	156	0.38		
Intake 5 - Central & Eastern - 3	CAT D3 LGP, Dozer	Crawler Tractor	273.9	222	1.2	Diesel or Hybrid	76	0.43		
Intake 5 - Central & Eastern - 3	CAT D6LGPDozer w winch	Crawler Tractor	2150.3	222	9.7	Diesel or Hybrid	179	0.43		
Intake 5 - Central & Eastern - 3	CAT IT28H, 10640 LB Tool Carrier	Rubber Tired Loaders	393.9	222	1.8	Diesel	145	0.36		
Intake 5 - Central & Eastern - 3	Disk, Towed	Off Highway Tractor	1672.3	222	7.5	Diesel	140	0.44		
Intake 5 - Central & Eastern - 3	DMM Deep Soil Mixer, 3 Shaft, 808 HP	Bore Drill Rigs	4440	222	20	Diesel	522	0.5		
Intake 5 - Central & Eastern - 3	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	4440	222	20	Diesel	500	0.34		
Intake 5 - Central & Eastern - 3	Grove RT Crane 30T	Crane	4440	222	20	Diesel	160	0.29		
Intake 5 - Central & Eastern - 3	Grove RT Crane 15T, 100hp	Crane	120	222	0.5	Diesel	100	0.29		
Intake 5 - Central & Eastern - 3	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	880	222	4.0	Diesel	384	0.38		
Intake 5 - Central & Eastern - 3	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	274	222	1.2	Diesel	75	0.31		
Intake 5 - Central & Eastern - 3	Portable, 90 Kw, Diesel, 158HP	Welders	444	222	2	Diesel Tier 4	158	0.45		
Intake 5 - Central & Eastern - 3	Water Pump, 4" Diesel	Pumps	477.1	222	2.1	Diesel	10	0.74		
Intake 5 - Central & Eastern - 3	Water Pump,3" Gas, Diaphragm	Pumps	273.9	222	1.2	Gasoline	10	0.74		
Intake 5 - Central & Eastern - 3	Well Drill	Bore/Drill Rigs	564.9	222	2.5	Diesel	136	0.5		
Intake 5 - Central & Eastern - 4	CAT LOADER/HOE 416 E	Rubber Tired Loaders	3030.3	1096	2.8	Diesel	78	0.36		
Intake 5 - Central & Eastern - 4	Disk, Towed	Off Highway Tractor	3030.3	1096	2.8	Diesel	140	0.44		
Intake 5 - Central & Eastern - 4	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	1512.2	1096	1.4	Diesel	80	0.44		
Intake 5 - Central & Eastern - 5	400A Diesel Welder, Trailer Mounted	Welders	49.8	399	0.1	Diesel	22	0.45		
Intake 5 - Central & Eastern - 5	Air Compressor 185 cfm	Air Compressor	124.2	399	0.3	Diesel Tier 4	49	0.48		
Intake 5 - Central & Eastern - 5	Air Compressor 375 cfm	Air Compressor	9600	399	24	Diesel Tier 4	122	0.48		
Intake 5 - Central & Eastern - 5	Bobcat S630 Skid Steer Loader	Skid Loader	47.6	399	0.1	Diesel	74	0.37		
Intake 5 - Central & Eastern - 5	Boom Truck, 12.5 Tn Boom	Crane	124.2	399	0.3	Diesel or Hybrid	100	0.29		
Intake 5 - Central & Eastern - 5	Brush Chipper, 18" Cap., Trailer Mtd. 173hp	Other Construction	29.7	399	0.1	Diesel	173	0.42		
Intake 5 - Central & Eastern - 5	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	9600	399	24	Diesel	110	0.36		
Intake 5 - Central & Eastern - 5	CAT 12 M	Grader	24.4	399	0.1	Diesel	173	0.41		
Intake 5 - Central & Eastern - 5	CAT 14 M	Grader	1412.9	399	3.5	Diesel	274	0.41		
Intake 5 - Central & Eastern - 5	CAT 320D, 1.56 cy, 153 hp	Excavator	29.7	399	0.1	Diesel	138	0.38		
Intake 5 - Central & Eastern - 5	Cat 613 C Self Loading Scraper	Scraper	2078.5	399	5.2	Diesel	187	0.48		
Intake 5 - Central & Eastern - 5	CAT 825, Roller	Roller	1257.1	399	3.2	Diesel	315	0.38		
Intake 5 - Central & Eastern - 5	CAT 950 H Wheel Loader	Rubber Tired Loaders	23.8	399	0.1	Diesel or Hybrid	130	0.36		
Intake 5 - Central & Eastern - 5	CAT 962 H Wheel Loader	Rubber Tired Loader	93.7	399	0.2	Diesel	230	0.36		
Intake 5 - Central & Eastern - 5	CAT 980 H Wheel Loader	Rubber Tired Loader	167.1	399	0.4	Diesel	393	0.36		
Intake 5 - Central & Eastern - 5	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	22.2	399	0.1	Diesel	158	0.38		
Intake 5 - Central & Eastern - 5	CAT CS-74, Roller, 17 tn, 156 HP	Rollers	93.7	399	0.2	Diesel	156	0.38		
Intake 5 - Central & Eastern - 5	CAT D3 LGP, Dozer	Crawler Tractor	11.9	399	0.0	Diesel or Hybrid	76	0.43		
Intake 5 - Central & Eastern - 5	CAT D6LGPDozer w winch	Crawler Tractor	3624	399	9.1	Diesel or Hybrid	179	0.43		
Intake 5 - Central & Eastern - 5	CAT LOADER/HOE 416 E	Rubber Tired Loaders	23.8	399	0.1	Diesel	78	0.36		
Intake 5 - Central & Eastern - 5	Disk, Towed	Off Highway Tractor	3231.7	399	8.1	Diesel	140	0.44		
Intake 5 - Central & Eastern - 5	DMM Deep Soil Mixer, 3 Shaft, 808 HP	Bore Drill Rig	9600	399	24	Diesel	522	0.5		
Intake 5 - Central & Eastern - 5	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	9600	399	24	Diesel	500	0.34		
Intake 5 - Central & Eastern - 5	Grove RT Crane 30T	Crane	9600	399	24	Diesel	160	0.29		
Intake 5 - Central & Eastern - 5	Grove RT Crane 55T, 247 hp	Crane	49.8	399	0.1	Diesel	247	0.29		
Intake 5 - Central & Eastern - 5	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	1211.3	399	3.0	Diesel	384	0.38		
Intake 5 - Central & Eastern - 5	Light Plant, 4 lte, 1000w, Tower/Mast	Generator	29.7	399	0.1	Diesel	12	0.74		
Intake 5 - Central & Eastern - 5	Manitowoc 555 150T, 250' Boom	Crane	49.8	399	0.1	Diesel	760	0.29		
Intake 5 - Central & Eastern - 5	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	124.2	399	0.3	Diesel	75	0.31		
Intake 5 - Central & Eastern - 5	Portable, 20 Kw, Diesel, 36HP	Welders	287.7	399	0.7	Diesel Tier 4	36	0.45		
Intake 5 - Central & Eastern - 5	Portable, 90 Kw, Diesel, 158HP	Welders	800	399	2	Diesel Tier 4	158	0.45		
Intake 5 - Central & Eastern - 5	Vibro Driver/Extractor V20B	Other Construction Eq	61.7	399	0.2	Diesel	325	0.42		
Intake 5 - Central & Eastern - 5	Water Pump, 4" Diesel	Pumps	701.9	399	1.8	Diesel	10	0.74		
Intake 5 - Central & Eastern - 6	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	63	21	3	Diesel or Hybrid	224	0.42		
Intake 5 - Central & Eastern - 6	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	63	21	3	Diesel or Hybrid	137	0.38		
Intake 5 - Central & Eastern - 6	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	63	21	3	Diesel or Hybrid	133	0.38		
Intake 5 - Central & Eastern - 6	Boom Truck, 12.5 Tn Boom	Crane	19.3	21	0.9	Diesel or Hybrid	100	0.29		
Intake 5 - Central & Eastern - 6	CAT 14 M	Grader	26.3	21	1.3	Diesel	274	0.41		
Intake 5 - Central & Eastern - 6	CAT 962 H Wheel Loader	Rubber Tired Loader	26.3	21	1.3	Diesel	230	0.36		

Intake 5 - Central & Eastern - 6	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	26.3	21	1.3	Diesel	158	0.38
Intake 5 - Central & Eastern - 6	CAT LOADER/HOE 416 E	Rubber Tired Loaders	108.5	21	5.2	Diesel	78	0.36
Intake 5 - Central & Eastern - 7	400A Diesel Welder, Trailer Mounted	Welders	1174.4	106	11.1	Diesel	22	0.45
Intake 5 - Central & Eastern - 7	Air Compressor 375 cfm	Air Compressor	1049.5	106	9.9	Diesel Tier 4	122	0.48
Intake 5 - Central & Eastern - 7	Grove RT Crane 55T, 247 hp	Crane	1174.4	106	11.1	Diesel	247	0.29
Intake 5 - Central & Eastern - 7	Manitowoc 555 150T, 250' Boom	Crane	1174.4	106	11.1	Diesel	760	0.29
Intake 5 - Central & Eastern - 7	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	1174.4	106	11.1	Diesel	75	0.31
Intake 5 - Central & Eastern - 7	Portable, 20 Kw, Diesel, 36HP	Welders	1174.4	106	11.1	Diesel Tier 4	36	0.45
Intake 5 - Central & Eastern - 7	Vibro Driver/Extractor V20B	Other Construction Eq	1174.4	106	11.1	Diesel	325	0.42
Intake 5 - Central & Eastern - 8	1600 CFM Compressor Diesel	Air Compressor	189.9	105	1.8	Diesel Tier 4	540	0.74
Intake 5 - Central & Eastern - 8	250 CFM Compressor Diesel	Air Compressor	3.6	105	0.0	Diesel Tier 3	75	0.74
Intake 5 - Central & Eastern - 8	CAT 950 H Wheel Loader	Rubber Tired Loaders	407.3	105	3.9	Diesel or Hybrid	130	0.36
Intake 5 - Central & Eastern - 8	CAT 980 H Wheel Loader	Rubber Tired Loader	27.9	105	0.3	Diesel	393	0.36
Intake 5 - Central & Eastern - 8	CAT CB-634D Vibratory 84"	Rollers	1199.8	105	11.4	Diesel	145	0.38
Intake 5 - Central & Eastern - 8	CAT D8 Dozer	Crawler Tractor	1227.7	105	11.7	Diesel	328	0.43
Intake 5 - Central & Eastern - 8	CAT Grader 16H	Graders	1227.7	105	11.7	Diesel	285	0.41
Intake 5 - Central & Eastern - 8	CAT Hyd Excavator 1CY	Excavator	217.4	105	2.1	Diesel	138	0.38
Intake 5 - Central & Eastern - 8	Hydraulic 55 Ton Crane	Crane	379.8	105	3.6	Diesel	350	0.29
Intake 5 - Central & Eastern - 8	Hydraulic 40 Ton Crane	Crane	32.4	105	0.3	Diesel	350	0.29
Intake 5 - Central & Eastern - 8	Hydraulic Excavator to 3.5	Crane	212	105	2.0	Diesel	350	0.29
Intake 5 - Central & Eastern - 8	Manitowoc 777 200 Ton Crane	Crane	497.7	105	4.7	Diesel	760	0.29
Intake 5 - Central & Eastern - 8	Slurry Wall Mixer & Desander & Stop End &	Cement & Mortar Mix	189.9	105	2	Diesel	8	0.56
Intake 5 - Central & Eastern - 8	Slurry Wall Techniwell	Pumps	189.9	105	2	Diesel	500	0.74
Intake 5 - Central & Eastern - 9	Hydraulic 25 Ton Crane	Crane	68.8	3	22.9	Diesel	100	0.29
Intake 5 - Central & Eastern - 10	150 KW Diesel Generator	Generator	90	7	13	Diesel Tier 4	183	0.74
Intake 5 - Central & Eastern - 10	Hydraulic 15 Ton Crane	Crane	90	7	13	Diesel	100	0.29
Intake 5 - Central & Eastern - 10	Water Pump, 6" Diesel	Pumps	360	7	51.4	Diesel	13	0.74
Intake 5 - Central & Eastern - 11	Air Compressor 250 cfm	Air Compressor	595.5	80	7.4	Diesel Tier 4	75	0.48
Intake 5 - Central & Eastern - 11	Hydraulic 9 Ton Crane	Crane	54	80	1	Diesel	100	0.29
Intake 5 - Central & Eastern - 11	Manitowoc 777 200 Ton Crane	Crane	205.8	80	2.6	Diesel	760	0.29
Intake 5 - Central & Eastern - 11	Manitowoc 999-275 Ton Crane	Crane	187.2	80	2.3	Diesel	900	0.29
Intake 5 - Central & Eastern - 11	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	313.4	80	3.9	Diesel Tier 4	210	0.38
Intake 5 - Central & Eastern - 12	400A Diesel Welder, Trailer Mounted	Welders	1102.5	530	2.1	Diesel	22	0.45
Intake 5 - Central & Eastern - 12	Air Compressor 185 cfm	Air Compressor	603	530	1.1	Diesel Tier 4	49	0.48
Intake 5 - Central & Eastern - 12	Air Compressor 375 cfm	Air Compressor	2171.8	530	4.1	Diesel Tier 4	122	0.48
Intake 5 - Central & Eastern - 12	Air Compressor 900 cfm	Air Compressor	2165	530	4.1	Diesel Tier 4	300	0.48
Intake 5 - Central & Eastern - 12	Auger, Drilled Pier, 48-60", 484 Hp	Bore/Drill Rigs	2049.3	530	3.9	Diesel	137	0.38
Intake 5 - Central & Eastern - 12	Bentonite Mix Plant/Desander	Cement & Mortar Mix	2049.3	530	3.9	Diesel Tier 4	100	0.56
Intake 5 - Central & Eastern - 12	Bobcat S630 Skid Steer Loader	Skid Loader	1024.6	530	1.9	Diesel	74	0.37
Intake 5 - Central & Eastern - 12	Boom Truck, 12.5 Tn Boom	Crane	301.5	530	0.6	Diesel or Hybrid	100	0.29
Intake 5 - Central & Eastern - 12	CAT 14 M	Grader	13.3	530	0.0	Diesel	274	0.41
Intake 5 - Central & Eastern - 12	CAT 815, Roller	Roller	26.6	530	0.1	Diesel	170	0.38
Intake 5 - Central & Eastern - 12	CAT 950 H Wheel Loader	Rubber Tired Loaders	2489.6	530	4.7	Diesel or Hybrid	130	0.36
Intake 5 - Central & Eastern - 12	CAT 966 GII Wheel Loader	Rubber Tired Loaders	709.5	530	1.3	Diesel	286	0.36
Intake 5 - Central & Eastern - 12	CAT D3 LGP, Dozer	Crawler Tractor	1024.6	530	1.9	Diesel or Hybrid	76	0.43
Intake 5 - Central & Eastern - 12	CAT D6LGPDozer w winch	Crawler Tractor	2102.4	530	4.0	Diesel or Hybrid	179	0.43
Intake 5 - Central & Eastern - 12	CAT DBRli, Dozer w winch	Crawler Tractor	125.2	530	0.2	Diesel	310	0.43
Intake 5 - Central & Eastern - 12	CAT LOADER/HOE 416 E	Rubber Tired Loaders	205	530	0.4	Diesel	78	0.36
Intake 5 - Central & Eastern - 12	Other Construction Eq	Concrete Vibrator, 2"	2940	530	5.5	Gasoline	3	0.42
Intake 5 - Central & Eastern - 12	Grove RT Crane 30T	Crane	512.3	530	1.0	Diesel	160	0.29
Intake 5 - Central & Eastern - 12	Grove RT Crane 55T, 247 hp	Crane	4824.4	530	9.1	Diesel	247	0.29
Intake 5 - Central & Eastern - 12	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	26.6	530	0.1	Diesel	384	0.38
Intake 5 - Central & Eastern - 12	Light Plant, 4 lite, 1000w, Tower/Mast	Generator	194	530	0.4	Diesel	12	0.74
Intake 5 - Central & Eastern - 12	Manitowoc 555 150T, 250' Boom	Crane	8132.7	530	15.3	Diesel	760	0.29
Intake 5 - Central & Eastern - 12	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	301.5	530	0.6	Diesel	75	0.31
Intake 5 - Central & Eastern - 12	Portable, 20 Kw, Diesel, 36HP	Welders	122.5	530	0.2	Diesel Tier 4	36	0.45
Intake 5 - Central & Eastern - 12	Portable, 90 Kw, Diesel, 158HP	Welders	980	530	1.8	Diesel Tier 4	158	0.45
Intake 5 - Central & Eastern - 12	Pug Mill, 400 cy/hr, w200 kw Gen	Generators	107.8	530	0.2	Diesel Tier 4	300	0.74
Intake 5 - Central & Eastern - 12	Tremie Plant	Cement & Mortar Mix	1070.5	530	2.0	Diesel	500	0.56
Intake 5 - Central & Eastern - 12	Water Pump, 6" Diesel	Pumps	2049.3	530	3.9	Diesel	13	0.74
Intake 5 - Central & Eastern - 12	Water Pump, 10" Diesel	Pumps	546	530	1.0	Diesel	200	0.74
Intake 5 - Central & Eastern - 13	400A Diesel Welder, Trailer Mounted	Welders	1407	196	7.2	Diesel	22	0.45
Intake 5 - Central & Eastern - 13	Air Compressor 900 cfm	Air Compressor	2814	196	14.4	Diesel Tier 4	300	0.48
Intake 5 - Central & Eastern - 13	CAT 973 Track Loader, 4.2 cy, 263hp	Skid Loader	83.1	196	0.4	Diesel or Hybrid	210	0.37
Intake 5 - Central & Eastern - 13	Concrete Vibrator, 2"	Other Construction Eq	4271.3	196	21.8	Gasoline	3	0.42
Intake 5 - Central & Eastern - 13	Grove RT Crane 55T, 247 hp	Crane	1540.4	196	7.9	Diesel	247	0.29
Intake 5 - Central & Eastern - 13	Manitowoc 555 150T, 250' Boom	Crane	4382.5	196	22.4	Diesel	760	0.29
Intake 5 - Central & Eastern - 13	Pile Hammer/Vulcan, Single 50k Ft-LB w Comp	Other Construction Eq	83.1	196	0.4	Diesel	210	0.42
Intake 5 - Central & Eastern - 13	Portable, 90 Kw, Diesel, 158HP	Welders	1407	196	7.2	Diesel Tier 4	158	0.45
Intake 5 - Central & Eastern - 13	Water Pump, 4" Diesel	Pumps	2814	196	14.4	Diesel	10	0.74
Intake 5 - Central & Eastern - 14	CAT 12 M	Grader	56.4	432	0.1	Diesel	173	0.41
Intake 5 - Central & Eastern - 14	CAT 953 Track Loader, 2.25cy, 148hp	Skid Loader	363.2	432	0.8	Diesel or Hybrid	148	0.37
Intake 5 - Central & Eastern - 14	CAT 973 Track Loader, 4.2 cy, 263hp	Skid Loader	180	432	0.4	Diesel or Hybrid	263	0.37
Intake 5 - Central & Eastern - 14	CAT 980 H Wheel Loader	Rubber Tired Loader	212.4	432	0.0	Diesel	393	0.36
Intake 5 - Central & Eastern - 14	CAT D3 LGP, Dozer	Crawler Tractor	951.9	432	2.2	Diesel or Hybrid	76	0.43
Intake 5 - Central & Eastern - 14	CAT D6LGPDozer w winch	Crawler Tractor	225.6	432	0.5	Diesel or Hybrid	179	0.43
Intake 5 - Central & Eastern - 14	Compactor, Trench Roller, Vib 32"w	Roller	726.3	432	1.7	Diesel	20	0.38
Intake 5 - Central & Eastern - 14	Concrete Vibrator, 2"	Other Construction Eq	2437.8	432	5.6	Gasoline	3	0.42
Intake 5 - Central & Eastern - 14	Grove RT Crane 55T, 247 hp	Crane	1051.8	432	2.4	Diesel	247	0.29
Intake 5 - Central & Eastern - 14	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	588.7	432	1.4	Diesel	384	0.38
Intake 5 - Central & Eastern - 14	Manitowoc 555 150T, 250' Boom	Crane	2702.7	432	6.3	Diesel	760	0.29
Intake 5 - Central & Eastern - 14	Pile Hammer/Vulcan, Single 50k Ft-LB w Comp	Other Construction Eq	180	432	0.4	Diesel	210	0.42
Intake 5 - Central & Eastern - 14	Water Pump, 4" Diesel	Pumps	45.1	432	0.1	Diesel	10	0.74
Intake 5 - Central & Eastern - 15	400A Diesel Welder, Trailer Mounted	Welders	3663.1	215	17.0	Diesel	22	0.45
Intake 5 - Central & Eastern - 15	Air Compressor 185 cfm	Air Compressor	738.4	215	3.4	Diesel Tier 4	49	0.48
Intake 5 - Central & Eastern - 15	Bobcat S630 Skid Steer Loader	Skid Loader	160	215	0.7	Diesel	74	0.37
Intake 5 - Central & Eastern - 15	Boom Truck, 12.5 Tn Boom	Crane	1138.4	215	5.3	Diesel or Hybrid	100	0.29
Intake 5 - Central & Eastern - 15	CAT 950 H Wheel Loader	Rubber Tired Loaders	40	215	0.2	Diesel or Hybrid	130	0.36
Intake 5 - Central & Eastern - 15	CAT CS-74, Roller, 17 tn, 156 HP	Rollers	40	215	0.2	Diesel	156	0.38
Intake 5 - Central & Eastern - 15	CAT D3 LGP, Dozer	Crawler Tractor	40	215	0.2	Diesel or Hybrid	76	0.43
Intake 5 - Central & Eastern - 15	Concrete Vibrator, 2"	Other Construction Eq	11.1	215	0.1	Gasoline	3	0.42
Intake 5 - Central & Eastern - 15	Grove RT Crane 30T	Crane	4.8	215	0.0	Diesel	160	0.29
Intake 5 - Central & Eastern - 15	Grove RT Crane 55T, 247 hp	Crane	11.1	215	0.1	Diesel	247	0.29
Intake 5 - Central & Eastern - 15	Manitowoc 555 150T, 250' Boom	Crane	507.2	215	2.4	Diesel	760	0.29
Intake 5 - Central & Eastern - 15	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	1059.7	215	4.9	Diesel	75	0.31

Intake 5 - Central & Eastern - 15	Portable, 20 Kw, Diesel, 36HP	Welders	5.5	215	0.0	Diesel Tier 4	36	0.45
Intake 5 - Central & Eastern - 15	Water Pump,3" Gas, Diaphragm	Pumps	5.5	215	0.0	Gasoline	10	0.74
Intake 5 - Central & Eastern - 16	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	34.5	3	11.5	Diesel	110	0.36
Intake 5 - Central & Eastern - 16	DMM Deep Soil Mixer, 3 Shaft, 808 HP	Bore Drill Rigs	3.5	3	1.2	Diesel	522	0.5
Intake 5 - Central & Eastern - 16	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	3.5	3	1.2	Diesel	500	0.34
Intake 5 - Central & Eastern - 16	Grove RT Crane 30T	Crane	34.5	3	11.5	Diesel	160	0.29
Intake 5 - Central & Eastern - 16	Manitowoc 555 150T, 250' Boom	Crane	34.5	3	11.5	Diesel	760	0.29
Intake 5 - Central & Eastern - 16	Portable, 20 Kw, Diesel, 36HP	Welders	34.5	3	11.5	Diesel Tier 4	36	0.74
Intake 5 - Central & Eastern - 17	400A Diesel Welder, Trailer Mounted	Welders	3334.8	63	52.9	Diesel	22	0.45
Intake 5 - Central & Eastern - 17	Air Compressor 185 cfm	Air Compressor	2807.3	63	44.6	Diesel Tier 4	49	0.48
Intake 5 - Central & Eastern - 17	Air Compressor 375 cfm	Air Compressor	335	63	5.3	Diesel Tier 4	122	0.48
Intake 5 - Central & Eastern - 17	Boom Truck, 12.5 Tn Boom	Crane	1101.5	63	17.5	Diesel or Hybrid	100	0.29
Intake 5 - Central & Eastern - 17	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	8	63	0.1	Diesel or Hybrid	130	0.36
Intake 5 - Central & Eastern - 17	CAT 966 Gil Wheel Loader	Rubber Tired Loaders	86.6	63	1.4	Diesel	286	0.36
Intake 5 - Central & Eastern - 17	CAT CS-74, Roller, 17 tn, 156 HP	Rollers	8	63	0.1	Diesel	156	0.38
Intake 5 - Central & Eastern - 17	CAT D3 LGP, Dozer	Crawler Tractor	8	63	0.1	Diesel or Hybrid	76	0.43
Intake 5 - Central & Eastern - 17	Concrete Vibrator, 2"	Other Construction Eq	3.7	63	0.1	Gasoline	3	0.42
Intake 5 - Central & Eastern - 17	Gradall, 1.50 Cy, 282 Hp	Excavator	86.6	63	1.4	Diesel	282	0.38
Intake 5 - Central & Eastern - 17	Grove RT Crane 30T	Crane	8	63	0.1	Diesel	160	0.29
Intake 5 - Central & Eastern - 17	Grove RT Crane 55T, 247 hp	Crane	1401.7	63	22.2	Diesel	247	0.29
Intake 5 - Central & Eastern - 17	Manitowoc 555 150T, 250' Boom Man-Lift, 54', 500 LB, 24' Reach, 4x4 Portable,	Crane	1849.2	63	29.4	Diesel	760	0.29
Intake 5 - Central & Eastern - 17	20 Kw, Diesel, 36HP	Aerial Lifts	1766.5	63	28.0	Diesel	75	0.31
Intake 5 - Central & Eastern - 17	Vibro Driver/Extractor V20B	Welders	224.9	63	3.6	Diesel Tier 4	36	0.45
Intake 5 - Central & Eastern - 17	Water Pump,3" Gas, Diaphragm	Other Construction Eq	223	63	3.5	Diesel	325	0.42
Intake 5 - Central & Eastern - 17		Pumps	1.8	63	0.0	Gasoline	10	0.74
Intake 5 - Central & Eastern - 18	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	83.1	31	3	Diesel or Hybrid	224	0.42
Intake 5 - Central & Eastern - 18	Asphalt Rollier, 2 Drum 12tn, 137hp	Roller	83.1	31	3	Diesel or Hybrid	137	0.38
Intake 5 - Central & Eastern - 18	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	83.1	31	3	Diesel or Hybrid	133	0.38
Intake 5 - Central & Eastern - 18	Boom Truck, 12.5 Tn Boom	Crane	9.9	31	0.3	Diesel or Hybrid	100	0.29
Intake 5 - Central & Eastern - 18	CAT LOADER/HOE 416 E	Rubber Tired Loaders	92.9	31	3.0	Diesel	78	0.36
Intake 5 - Central & Eastern - 19	400A Diesel Welder, Trailer Mounted Air	Welders	20.6	200	0.1	Diesel	22	0.45
Intake 5 - Central & Eastern - 19	Compressor 185 cfm	Air Compressor	571.4	200	2.9	Diesel Tier 4	49	0.48
Intake 5 - Central & Eastern - 19	Boom Truck, 12.5 Tn Boom	Crane	571.4	200	2.9	Diesel or Hybrid	100	0.29
Intake 5 - Central & Eastern - 19	Case 590 SupN Loader/Hoe, 110 hp CAT	Rubber Tired Loaders	733.3	200	3.7	Diesel	110	0.36
Intake 5 - Central & Eastern - 19	12 M	Grader	5.5	200	0.0	Diesel	173	0.41
Intake 5 - Central & Eastern - 19	CAT 14 M	Grader	2117.7	200	10.6	Diesel	274	0.41
Intake 5 - Central & Eastern - 19	Cat 613 C Self Loading Scraper	Scraper	1591.2	200	8.0	Diesel	187	0.48
Intake 5 - Central & Eastern - 19	CAT 825, Roller	Roller	854.4	200	4.3	Diesel	315	0.38
Intake 5 - Central & Eastern - 19	CAT 950 H Wheel Loader	Rubber Tired Loaders	812.2	200	4.1	Diesel or Hybrid	130	0.36
Intake 5 - Central & Eastern - 19	CAT 973 Track Loader, 4.2 cy, 263hp CAT	Skid Loader	20	200	0.1	Diesel or Hybrid	210	0.37
Intake 5 - Central & Eastern - 19	CS-74, Roller, 17 tn, 156 HP	Rollers	672.7	200	3.4	Diesel	156	0.38
Intake 5 - Central & Eastern - 19	CAT D3 LGP, Dozer	Crawler Tractor	30.7	200	0.2	Diesel or Hybrid	76	0.43
Intake 5 - Central & Eastern - 19	CAT D6LGPDozer w winch	Crawler Tractor	1596.6	200	8.0	Diesel or Hybrid	179	0.43
Intake 5 - Central & Eastern - 19	CAT LOADER/HOE 416 E	Rubber Tired Loaders	13	200	0.1	Diesel	78	0.36
Intake 5 - Central & Eastern - 19	Compactor, Plate, 22"x x 35" Concrete	Plate Compactors	366.7	200	1.8	Diesel	8.5	0.43
Intake 5 - Central & Eastern - 19	Vibrator, 2"	Other Construction Eq	41.2	200	0.2	Gasoline	3	0.42
Intake 5 - Central & Eastern - 19	Disk, Towed	Off Highway Tractor	1533.2	200	7.7	Diesel	140	0.44
Intake 5 - Central & Eastern - 19	Grove RT Crane 30T	Crane	846.4	200	4.2	Diesel	160	0.29
Intake 5 - Central & Eastern - 19	Grove RT Crane 55T, 247 hp	Crane	157.2	200	0.8	Diesel	247	0.29
Intake 5 - Central & Eastern - 19	Grove RT Crane 80T, 275hp	Crane	100	200	0.5	Diesel	275	0.29
Intake 5 - Central & Eastern - 19	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	161.5	200	0.8	Diesel	345	0.38
Intake 5 - Central & Eastern - 19	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	1037.9	200	5.2	Diesel	384	0.38
Intake 5 - Central & Eastern - 19	Manitowoc 555 150T, 250' Boom Man-Lift, 54', 500 LB, 24' Reach, 4x4	Crane	20	200	0.1	Diesel	760	0.29
Intake 5 - Central & Eastern - 19	Pile Hammer,Vulcan, Single 50k Ft-Lb w Comp	Aerial Lifts	431.4	200	2.2	Diesel	75	0.31
Intake 5 - Central & Eastern - 19	Portable, 20 Kw, Diesel, 36HP	Other Construction Eq	20	200	0.1	Diesel	210	0.42
Intake 5 - Central & Eastern - 19	Water Pump, 4" Diesel	Welders	20.6	200	0.1	Diesel Tier 4	36	0.45
Intake 5 - Central & Eastern - 19	Water Pump, 6" Diesel	Pumps	475.4	200	2.4	Diesel	10	0.74
Intake 5 - Central & Eastern - 19	Water Pump,3" Gas, Diaphragm	Pumps	380.9	200	1.9	Diesel	13	0.74
Intake 5 - Central & Eastern - 19		Pumps	20.6	200	0.1	Gasoline	10	0.74
Intake 5 - Central & Eastern - 20	400A Diesel Welder, Trailer Mounted	Welders	73.5	83	0.9	Diesel	22	0.45
Intake 5 - Central & Eastern - 20	Air Compressor 375 cfm	Air Compressor	73.5	83	0.9	Diesel Tier 4	122	0.48
Intake 5 - Central & Eastern - 20	Grove RT Crane 55T, 247 hp	Crane	36.8	83	0.4	Diesel	247	0.29
Intake 5 - Central & Eastern - 20	Manitowoc 555 150T, 250' Boom	Crane	122.5	83	1.5	Diesel	760	0.29
Intake 5 - Central & Eastern - 20	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	73.5	83	0.9	Diesel	75	0.31
Intake 5 - Central & Eastern - 20	Portable, 20 Kw, Diesel, 36HP	Welders	122.5	83	1.5	Diesel Tier 4	36	0.45
Intake 5 - Central & Eastern - 20	Vibro Driver/Extractor V20B	Other Construction Eq	73.5	83	0.9	Diesel	325	0.42
Intake 5 - Central & Eastern - 21	400A Diesel Welder, Trailer Mounted	Welders	90	46	2.0	Diesel	22	0.45
Intake 5 - Central & Eastern - 21	Air Compressor 375 cfm	Air Compressor	90	46	2.0	Diesel Tier 4	122	0.48
Intake 5 - Central & Eastern - 21	Grove RT Crane 55T, 247 hp	Crane	90	46	2.0	Diesel	247	0.29
Intake 5 - Central & Eastern - 21	Manitowoc 555 150T, 250' Boom	Crane	90	46	2.0	Diesel	760	0.29
Intake 5 - Central & Eastern - 21	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	90	46	2.0	Diesel	75	0.31
Intake 5 - Central & Eastern - 21	Portable, 20 Kw, Diesel, 36HP	Welders	90	46	2.0	Diesel Tier 4	36	0.45
Intake 5 - Central & Eastern - 21	Vibro Driver/Extractor V20B	Other Construction Eq	90	46	2.0	Diesel	325	0.42
Intake 5 - Central & Eastern - 22	400A Diesel Welder, Trailer Mounted	Welders	63	95	0.7	Diesel	22	0.45
Intake 5 - Central & Eastern - 22	Air Compressor 185 cfm	Air Compressor	66.5	95	0.7	Diesel Tier 4	49	0.48
Intake 5 - Central & Eastern - 22	Air Compressor 375 cfm	Air Compressor	63	95	3.4	Diesel Tier 4	122	0.48
Intake 5 - Central & Eastern - 22	Air Compressor 900 cfm	Air Compressor	320.7	95	3.4	Diesel Tier 4	300	0.48
Intake 5 - Central & Eastern - 22	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	58.8	95	1	Diesel or Hybrid	224	0.42
Intake 5 - Central & Eastern - 22	Asphalt Rollier, 2 Drum 12tn, 137hp	Roller	58.8	95	1	Diesel or Hybrid	137	0.38
Intake 5 - Central & Eastern - 22	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	58.8	95	1	Diesel or Hybrid	133	0.38
Intake 5 - Central & Eastern - 22	Bobcat S630 Skid Steer Loader	Skid Loader	112.0	95	11.8	Diesel	74	0.37
Intake 5 - Central & Eastern - 22	Boom Truck, 12.5 Tn Boom	Crane	66.5	95	0.7	Diesel or Hybrid	100	0.29
Intake 5 - Central & Eastern - 22	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	894.1	95	9.4	Diesel	110	0.36
Intake 5 - Central & Eastern - 22	CAT 14 M	Grader	81.7	95	0.9	Diesel	274	0.41
Intake 5 - Central & Eastern - 22	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	875.8	95	9.2	Diesel or Hybrid	130	0.36
Intake 5 - Central & Eastern - 22	CAT CS-74, Roller, 17 tn, 156 HP	Rollers	365.3	95	3.8	Diesel	156	0.38
Intake 5 - Central & Eastern - 22	CAT LOADER/HOE 416 E	Rubber Tired Loaders	887.4	95	9.3	Diesel	78	0.36
Intake 5 - Central & Eastern - 22	Compactor, Plate, 22"x x 35"	Plate Compactors	296.1	95	3.1	Diesel	8.5	0.43
Intake 5 - Central & Eastern - 22	Compactor, Trench Roller, Vib 32"x	Roller	301.9	95	3.2	Diesel	20	0.38
Intake 5 - Central & Eastern - 22	Conc/RCC Paver, 8 -12 Ft. Wide, 230 HP	Pavers	283.6	95	3.0	Diesel	230	0.42
Intake 5 - Central & Eastern - 22	Grove RT Crane 15T, 100hp	Crane	66.5	95	0.7	Diesel	100	0.29
Intake 5 - Central & Eastern - 22	Grove RT Crane 55T, 247 hp	Crane	63	95	0.7	Diesel	247	0.29
Intake 5 - Central & Eastern - 22	Manitowoc 555 150T, 250' Boom	Crane	63	95	0.7	Diesel	760	0.29
Intake 5 - Central & Eastern - 22	Pile Hammer D62-22, Single 165k Ft-LB, Diesel,	Other Construction Eq	63	95	0.7	Diesel	300	0.42
Intake 5 - Central & Eastern - 22	Portable, 20 Kw, Diesel, 36HP	Welders	63	95	0.7	Diesel Tier 4	36	0.45
Intake 5 - Central & Eastern - 22	Pug Mill, 400 cy/hr, w200 kw Gen	Generators	283.6	95	3.0	Diesel Tier 4	300	0.74

Intake 5 - Central & Eastern - 22	Shotcrete Pump	Pumps	320.7	95	3.4	Diesel	130	0.74
Intake 5 - Central & Eastern - 22	Vibro Driver/Extractor V20B	Other Construction Eq	63	95	0.7	Diesel	325	0.42
Intake 5 - Central & Eastern - 22	Water Pump, 4" Diesel	Pumps	16.3	95	0.2	Diesel	10	0.74
Intake 5 - Central & Eastern - 23	Bobcat S630 Skid Steer Loader	Skid Loader	241.9	34	7.1	Diesel	74	0.37
Intake 5 - Central & Eastern - 23	Boom Truck, 12.5 Tn Boom	Crane	241.9	34	7.1	Diesel or Hybrid	100	0.29
Intake 5 - Central & Eastern - 23	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	241.9	34	7.1	Diesel	75	0.31
Intake 5 - Central & Eastern - 23	Water Pump, 4" Diesel	Pumps	241.9	34	7.1	Diesel	10	0.74
Intake 5 - Central & Eastern - 24	CAT 12 M	Grader	60.9	53	1.1	Diesel	173	0.41
Intake 5 - Central & Eastern - 24	CAT 631G Scraper, Conventional	Scraper	348	53	6.6	Diesel	515	0.48
Intake 5 - Central & Eastern - 24	CAT 966 GII Wheel Loader	Rubber Tired Loaders	17.4	53	0.3	Diesel	286	0.36
Intake 5 - Central & Eastern - 24	CAT D8Rii, Dozer w winch	Crawler Tractor	348	53	6.6	Diesel	310	0.43
Intake 5 - Central & Eastern - 24	CAT D9R, Dozer w ripper	Crawler Tractor	417.8	53	7.9	Diesel	410	0.43
Intake 5 - Central & Eastern - 24	Disk, Towed	Off Highway Tractor	52.2	53	1.0	Diesel	140	0.44
Intake 5 - Central & Eastern - 24	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	130.5	53	2.5	Diesel	80	0.44
Intake 5 - Central & Eastern - 24	Farm Tractor, All Wheel Drive, 285 HP	Off Highway Tractor	17.4	53	0.3	Diesel	285	0.44
Intake 5 - Central & Eastern - 25	400A Diesel Welder, Trailer Mounted	Welders	208	40	5.2	Diesel	22	0.45
Intake 5 - Central & Eastern - 25	Grove RT Crane 80T, 275hp	Crane	27	40	0.7	Diesel	275	0.29
Intake 5 - Central & Eastern - 25	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	208	40	5.2	Diesel	75	0.31

**Offroad Equipment (Electric) Inventory for Intake 5_1500 cfs_Central & Eastern - Tee Screens
Options 7B, 8B**

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
Intake 5 - Central & Eastern - 2	400A, Electric Welder	2116.9	145	15	218.990
Intake 5 - Central & Eastern - 2	Water Pump, 4" Electrical, Submersible	11.9	145	1	0.082
Intake 5 - Central & Eastern - 2	Light Plant, 4 lite, 1000w	179.	145		
Intake 5 - Central & Eastern - 3	400A, Electric Welder	9154	222	15	10.405
Intake 5 - Central & Eastern - 3	Water Pump, 4" Electrical, Submersible	10158.8	222	1	45.760
Intake 5 - Central & Eastern - 5	400A, Electric Welder	124.2	399	15	4.669
Intake 5 - Central & Eastern - 5	Water Pump, 4" Electrical, Submersible	30441.1	399	1	76.293
Intake 5 - Central & Eastern - 5	Water Pump, 6" Electrical, Submersible	237.9	399	1	0.596
Intake 5 - Central & Eastern - 6	Water Pump, 4" Electrical, Submersible	5.3	21	1	0.252
Intake 5 - Central & Eastern - 7	Light Plant, 4 lite, 1000w	1787.5	106		
Intake 5 - Central & Eastern - 11	Axial Fan 114,000 CFM	54	80	50	34
Intake 5 - Central & Eastern - 12	400A, Electric Welder	603	530	15	17.066
Intake 5 - Central & Eastern - 12	Water Pump, 4" Electrical, Submersible	2984.6	530	1	5.631
Intake 5 Central& Eastern -12	Light Plant, 4 lite, 1000w	194	530		
Intake 5 - Central & Eastern - 13	Water Pump, 4" Electrical, Submersible	2814	196	1	14.357
Intake 5 - Central & Eastern - 14	Water Pump, 4" Electrical, Submersible				
		1556	432	1	3.602
Intake 5 - Central & Eastern - 15	400A, Electric Welder				
Intake 5 - Central & Eastern - 15	Water Pump, 4" Electrical, Submersible	797.1	215	15	55.612
		160	215	1	0.744
Intake 5 - Central & Eastern - 17	400A, Electric Welder				
		3276.4	63	15	780.095
Intake 5 Central & Eastern 17	Light Plant, 4 lite, 1000w	669.1	63		
Intake 5 - Central & Eastern - 19		571.4	200	15	42.855
	400A, Electric Welder				
		192	40	240	1,152.000
Intake 5 - Central & Eastern - 25	400A, Electric Welder				

Electricity for TBM Operations included in the Summary Workbook

Vehicle Inventory for Intake 5 1500 cfs Central & Eastern - Tee Screens

Options 78, 88

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs.	# day	Vehicle Hours	Hours/trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gph/dph)
Vehicle Use on Paved Roads --- and Not on Construction Site												
Intake 5 - Central & Eastern - 1	Truck, Tractor, 75000#, 6 x 4	Materials from Sacramento	51	120.0	0.6	189	3.7	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 1	Truck Flatbed 4 T Highway	Crane from Sacramento	1	0.6	0.6	1	1.0	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 2	Truck Flatbed 4 T Highway	Materials from Sacramento	145	21429.2	0.6	33836	233.3	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 2	Pickup 1/2T 2 WD	Materials from Sacramento	145	2284.0	0.6	3606	24.9	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline	
Intake 5 - Central & Eastern - 2	Pickup, 3/4T, 4wd	Materials from Sacramento	145	279.8	0.6	442	3.0	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline	
Intake 5 - Central & Eastern - 2	Truck/End Dump/ 10-13cy Hwy	Materials from Sacramento	145	2379.1	0.6	3756	25.9	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 2	Truck & Bottom Dump/ 21cy/ 30T	Materials from Sacramento	145	179	0.6	282	474	Intake 5 to/from Sacramento	19	38	Diesel Tier 4	
Intake 5 - Central & Eastern - 2	Concrete Transit Mix Truck/ 12cy	Concrete from Lambert CBP	145	3.6	0.1	27	0	Intake to/from Lambert CBP	4	8	Diesel	
Intake 5 - Central & Eastern - 2	Truck/End Dump/ 10-13cy Hwy	Base Rock and Gravel	145	1055.8	0.6	1667	11.5	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 2	Truck, Flatbed, 10T, Hwy	Rebar from Sacramento	145	1.9	0.6	3	0.0	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 2	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	145	307.8	0.6	486	3.4	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 2	Truck Flatbed 4 T Highway	Three Cranes, three Rollers, four Loaders, two Graders, Excavator, two Scrapers, and four Tractors from Sacramento	1	12.0	0.6	19	19.0	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 2	Truck Flatbed 4 T Highway	Forklift from and to Sacramento	2	1.3	0.6	2	1.0	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 2	Truck, Water, 4 Ngd, Hwy	led Water from Sacramento Regional	145	3241.8	0.4	7481	51.6	Intake 3 to/from Sacramento Regional WWTP	13	26	Diesel	
Intake 5 - Central & Eastern - 3	Mechanics Truck	Materials from Sacramento	222	10158.8	0.6	16040	72	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 3	Pickup 1/2T 2 WD	Materials from Sacramento	222	11647.3	0.6	18390	82.8	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline	
Intake 5 - Central & Eastern - 3	Pickup, 3/4T, 4wd	Materials from Sacramento	222	2275.3	0.6	3593	16.2	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline	
Intake 5 - Central & Eastern - 3	Truck/End Dump/ 10-13cy Hwy	Materials from Sacramento	222	426.7	0.6	674	3.0	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 3	Truck Flatbed 4 T Highway	Materials from Sacramento	222	10158.8	0.6	16040	72.3	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 3	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	222	120.0	0.6	189	0.9	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 3	Truck, Tractor, 75000#, 6 x 4	Materials from Sacramento	222	428.0	0.6	676	3.0	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 3	Truck/End Dump/ 16-20cy Hwy	Base Rock and Gravel from Sacramento	222	504.1	0.6	796	4	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 3	Truck/End Dump/ 10-13cy Hwy	Benetton from Sacramento	222	164.7	0.6	260	1.2	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 3	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	222	96.9	0.6	153	0.7	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 3	Truck Flatbed 4 T Highway	Crane and Excavator from Sacramento	1	1.3	0.6	2	2.0	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 3	Truck Flatbed 4 T Highway	Loader and Excavator from and to Sacramento	2	2.5	0.6	4	2.0	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 3	Truck, Water, 4 Ngd, Hwy	led Water from Sacramento Regional	222	9969.7	0.4	23007	103.6	Intake 3 to/from Sacramento Regional WWTP	13	26	Diesel	
Intake 5 - Central & Eastern - 4	Truck Flatbed 4 T Highway	Materials from Sacramento	1096	6060.7	0.6	9570	8.7	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 4	Truck Flatbed 4 T Highway	Tractor from Sacramento	1	0.6	0.6	1	1.0	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 5	Mechanics Truck	Materials from Sacramento	399	30407.0	0.6	48011	120	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 5	Pickup 1/2T 2 WD	Materials from Sacramento	399	31904.2	0.6	50375	126.3	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline	
Intake 5 - Central & Eastern - 5	Pickup, 3/4T, 4wd	Materials from Sacramento	399	19508.7	0.6	30803	77.2	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline	
Intake 5 - Central & Eastern - 5	Truck/End Dump/ 10-13cy Hwy	Materials from Sacramento	399	185.2	0.6	292	0.7	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 5	Truck Flatbed 4 T Highway	Materials from Sacramento	399	30455.3	0.6	48047	120.5	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 5	Truck & Bottom Dump/ 21cy/ 30T	Materials from Sacramento	399	281	0.6	444	474	Intake 5 to/from Sacramento	19	38	Diesel Tier 4	
Intake 5 - Central & Eastern - 5	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	399	47.6	0.6	75	0.2	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 5	Truck, Tractor, 75000#, 6 x 4	Materials from Sacramento	399	276.0	0.6	436	1.1	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 5	Truck/End Dump/ 16-20cy Hwy	Base Rock and Benetton from Sacramento	399	557.2	0.7	796	2	Intake 5 to/from Sacramento	21	42	Diesel	
Intake 5 - Central & Eastern - 5	Truck Flatbed 4 T Highway	Two Loaders, Roller, and Crane from Sacramento	1	2.5	0.6	4	4.0	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 5	Truck Flatbed 4 T Highway	Excavator from and to Sacramento	2	1.3	0.6	2	1.0	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 6	Pickup 1/2T 2 WD	Materials from Sacramento	21	63.0	0.6	99	4.7	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline	
Intake 5 - Central & Eastern - 6	Pickup, 3/4T, 4wd	Materials from Sacramento	21	26.3	0.6	42	2.0	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline	
Intake 5 - Central & Eastern - 6	Truck & Bottom Dump/ 21cy/ 30T	Materials from Sacramento	21	79	0.6	124	474	Intake 5 to/from Sacramento	19	38	Diesel Tier 4	
Intake 5 - Central & Eastern - 6	Truck/End Dump/ 16-20cy Hwy	Base Rock from Sacramento	21	105.8	0.6	167	8	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 6	Truck & Bottom Dump/ 21cy/ 30T	Asphalt, Hot Mix Delivered from Sacramento	21	111	0.7	158	474	Intake 5 to/from Sacramento	21	42	Diesel Tier 4	
Intake 5 - Central & Eastern - 6	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	21	12.0	0.6	19	0.9	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 6	Truck Flatbed 4 T Highway	Three Rollers and Paver from and to Sacramento	2	5.1	0.6	8	4.0	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 7	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Sacramento	106	112.1	0.6	177	1.7	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 7	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	106	12.0	0.6	19	0.2	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 8	Truck/End Dump/ 16-20cy Hwy	Materials from Sacramento	105	2340.6	0.6	3696	35	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 8	Concrete Transit Mix Truck/ 12cy	Concrete for Ground Improvement from Lambert CBP	105	92.9	0.1	697	7	Intake to/from Lambert CBP	4	8	Diesel	
Intake 5 - Central & Eastern - 8	Truck/End Dump/ 10-13cy Hwy	Benetton from Sacramento	105	111.5	0.6	176	1.7	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 8	Truck, Flatbed, 10T, Hwy	Materials and Rebar from Sacramento	105	38.6	0.6	61	0.6	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 8	Truck Flatbed 4 T Highway	Crane from Sacramento	1	0.6	0.6	1	1.0	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 8	Truck Flatbed 4 T Highway	Three Cranes, Grader, two Excavators, and Tractor from and to Sacramento	2	4.4	0.6	7	3.5	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 9	Concrete Transit Mix Truck/ 12cy	Concrete from Lambert CBP	3	62.4	0.1	468	156	Intake to/from Lambert CBP	4	8	Diesel	
Intake 5 - Central & Eastern - 9	Truck, Flatbed, 10T, Hwy	Rebar from Sacramento	3	5.1	0.6	8	2.7	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 9	Truck Flatbed 4 T Highway	Crane from and to Sacramento	2	1.3	0.6	2	1.0	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 10	Truck Flatbed 4 T Highway	Crane from and to Sacramento	2	1.3	0.6	2	1.0	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 11	Concrete Transit Mix Truck/ 12cy	Concrete from Lambert CBP	80	36.8	0.1	276	3	Intake to/from Lambert CBP	4	8	Diesel	
Intake 5 - Central & Eastern - 11	Truck, Flatbed, 10T, Hwy	Rebar from Sacramento	80	174.8	0.6	276	3.5	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 11	Truck Flatbed 4 T Highway	Crane from and to Sacramento	2	1.3	0.6	2	1.0	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 11	Truck Flatbed 4 T Highway	Crane from Sacramento	1	0.6	0.6	1	1.0	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 11	Truck Flatbed 4 T Highway	Crane to Sacramento	1	0.6	0.6	1	1.0	Intake 5 to/from Sacramento	19	38	Diesel	
Intake 5 - Central & Eastern - 12	Pickup 1/2T 2 WD	Materials from Sacramento	530	4359.4	0.6	6883	13.0	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline	
Intake 5 - Central & Eastern - 12	Pickup, 3/4T, 4wd	Materials from Sacramento	530	4423.7	0.6	6885	13.2	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline	

Intake 5 - Central & Eastern - 12 Intake 5 - Central & Eastern - 12 Intake 5 - Central & Eastern - 12	Truck/End Dump/10-13cy/ Hwy	Materials from Sacramento	530	539.2	0.6	851	1.6	Intake 5 to/from Sacramento	19	38	Diesel
	Truck/Flatbed 4 T Highway	Materials from Sacramento	530	2049.3	0.6	3236	6.1	Intake 5 to/from Sacramento	19	38	Diesel
	Truck, Tractor, 75000#, 6 x 4	Materials from Sacramento	530	665.0	0.6	1050	2.0	Intake 5 to/from Sacramento	19	38	Diesel
Intake 5 - Central & Eastern - 12 Intake 5 - Central & Eastern - 12 Intake 5 - Central & Eastern - 12 Intake 5 - Central & Eastern - 12	Concrete Transit Mix Truck/ 12cy	Concrete from Lambert CBP	530	548.3	0.1	4112	7.8	Intake to/from Lambert CBP	4	8	Diesel
	Truck/End Dump/10-13cy/ Hwy	Benicorte from Sacramento	530	5.7	0.6	9	0.0	Intake 5 to/from Sacramento	19	38	Diesel
	Truck, Flatbed, 10T, Hwy	Steel and Rebar and Other Materials from Sacramento	530	435.7	0.6	688	1.3	Intake 5 to/from Sacramento	19	38	Diesel
	Truck/Flatbed 4 T Highway	Tractor and Loader from Sacramento	1	1.3	0.6	2	2.0	Intake 5 to/from Sacramento	19	38	Diesel
Intake 5 - Central & Eastern - 13 Intake 5 - Central & Eastern - 13 Intake 5 - Central & Eastern - 13	Pickup 1/2T/2 WD	Materials from Sacramento	196	83.1	0.6	131	0.7	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline
	Truck, Tractor, 75000#, 6 x 4	Materials from Sacramento	196	83.1	0.6	131	0.7	Intake 5 to/from Sacramento	19	38	Diesel
	Concrete Transit Mix Truck/ 12cy	Concrete from Lambert CBP	196	340.0	0.1	2550	13.0	Intake to/from Lambert CBP	4	8	Diesel
Intake 5 - Central & Eastern - 13 Intake 5 - Central & Eastern - 13 Intake 5 - Central & Eastern - 13	Truck, Flatbed, 10T, Hwy	Rebar and Materials from Sacramento	196	86.8	0.6	137	0.7	Intake 5 to/from Sacramento	19	38	Diesel
	Truck/Flatbed 4 T Highway	Loader from Sacramento	1	0.6	0.6	1	1.0	Intake 5 to/from Sacramento	19	38	Diesel
	Pickup 1/2T/2 WD	Materials from Sacramento	432	768.7	0.6	1214	2.8	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline
Intake 5 - Central & Eastern - 14 Intake 5 - Central & Eastern - 14 Intake 5 - Central & Eastern - 14	Truck, Tractor, 75000#, 6 x 4	Materials from Sacramento	432	180.0	0.6	284	0.7	Intake 5 to/from Sacramento	19	38	Diesel
	Concrete Transit Mix Truck/ 12cy	Concrete from Lambert CBP	432	83.7	0.1	628	1.5	Intake to/from Lambert CBP	4	8	Diesel
	Truck, Flatbed, 10T, Hwy	Steel and Rebar and Other Materials from Sacramento	432	151.4	0.6	239	0.6	Intake 5 to/from Sacramento	19	38	Diesel
Intake 5 - Central & Eastern - 14 Intake 5 - Central & Eastern - 14 Intake 5 - Central & Eastern - 14	Truck/Flatbed 4 T Highway	Loader from and to Sacramento	2	1.3	0.6	2	1.0	Intake 5 to/from Sacramento	19	38	Diesel
	Truck/Flatbed 4 T Highway	Loader and Crane to Sacramento	1	1.3	0.6	2	2.0	Intake 5 to/from Sacramento	19	38	Diesel
	Pickup 1/2T/2 WD	Materials from Sacramento	215	921.8	0.6	1455	6.8	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline
Intake 5 - Central & Eastern - 15 Intake 5 - Central & Eastern - 15 Intake 5 - Central & Eastern - 15 Intake 5 - Central & Eastern - 15 Intake 5 - Central & Eastern - 15 Intake 5 - Central & Eastern - 15 Intake 5 - Central & Eastern - 15 Intake 5 - Central & Eastern - 15 Intake 5 - Central & Eastern - 15 Intake 5 - Central & Eastern - 15 Intake 5 - Central & Eastern - 15 Intake 5 - Central & Eastern - 15	Pickup, 3/4T, 4wd	Materials from Sacramento	215	40.0	0.6	63	0.3	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline
	Truck/Flatbed 4 T Highway	Materials from Sacramento	215	244.1	0.6	385	1.8	Intake 5 to/from Sacramento	19	38	Diesel
	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	215	161.3	0.6	255	1.2	Intake 5 to/from Sacramento	19	38	Diesel
	Truck/End Dump/10-13cy/ Hwy	Materials from Sacramento	215	160.0	0.6	253	1.2	Intake 5 to/from Sacramento	19	38	Diesel
	Concrete Transit Mix Truck/ 12cy	Concrete from Lambert CBP	215	1.1	0.1	8	0.0	Intake to/from Lambert CBP	4	8	Diesel
	Truck/End Dump/16-20cy/ Hwy	Gravel from Sacramento	215	5.7	0.6	9	0.0	Intake 5 to/from Sacramento	19	38	Diesel
	Truck, Flatbed, 10T, Hwy	Steel and Rebar and Other Materials from Sacramento	215	106.4	0.6	168	0.8	Intake 5 to/from Sacramento	19	38	Diesel
	Truck, Tractor, 75000#, 6 x 4	Materials from Sacramento	215	457.2	0.6	722	3.4	Intake 5 to/from Sacramento	19	38	Diesel
	Truck, Flatbed, 10T, Hwy	Rebar from Sacramento	215	0.6	0.6	1	0.0	Intake 5 to/from Sacramento	19	38	Diesel
	Mechanics Truck	Materials from Sacramento	3	69.0	0.6	109	36	Intake 5 to/from Sacramento	19	38	Diesel
	Truck/Flatbed 4 T Highway	Materials from Sacramento	3	34.5	0.6	54	18.2	Intake 5 to/from Sacramento	19	38	Diesel
	Truck, Tractor, 75000#, 6 x 4	Materials from Sacramento	3	103.5	0.6	163	54.5	Intake 5 to/from Sacramento	19	38	Diesel
Intake 5 - Central & Eastern - 17 Intake 5 - Central & Eastern - 17 Intake 5 - Central & Eastern - 17 Intake 5 - Central & Eastern - 17 Intake 5 - Central & Eastern - 17 Intake 5 - Central & Eastern - 17 Intake 5 - Central & Eastern - 17 Intake 5 - Central & Eastern - 17 Intake 5 - Central & Eastern - 17	Pickup 1/2T/2 WD	Materials from Sacramento	63	1550.8	0.6	2449	38.9	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline
	Pickup, 3/4T, 4wd	Materials from Sacramento	63	8.0	0.6	13	0.2	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline
	Truck/Flatbed 4 T Highway	Materials from Sacramento	63	1513.6	0.6	2390	37.9	Intake 5 to/from Sacramento	19	38	Diesel
	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	63	1621.9	0.6	2561	40.6	Intake 5 to/from Sacramento	19	38	Diesel
	Truck/End Dump/16-20cy/ Hwy	Gravel and Base Rock from Sacramento	63	1.3	0.6	2	0	Intake 5 to/from Sacramento	19	38	Diesel
	Truck/End Dump/10-13cy/ Hwy	Concrete from Lambert CBP	63	0.4	0.1	3	0.0	Intake to/from Lambert CBP	4	8	Diesel
	Truck, Flatbed, 10T, Hwy	Rebar from Sacramento	63	0.6	0.6	1	0.0	Intake 5 to/from Sacramento	19	38	Diesel
	Truck/Flatbed 4 T Highway	Excavator to Sacramento	1	0.6	0.6	1	1.0	Intake 5 to/from Sacramento	19	38	Diesel
	Pickup 1/2T/2 WD	Materials from Sacramento	31	83.1	0.6	131	4.2	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline
Intake 5 - Central & Eastern - 18 Intake 5 - Central & Eastern - 18 Intake 5 - Central & Eastern - 18 Intake 5 - Central & Eastern - 18	Truck/End Dump/16-20cy/ Hwy	Base Rock from Sacramento	31	152.0	0.6	240	8	Intake 5 to/from Sacramento	19	38	Diesel
	Truck & Bottom Dump/ 21cy/ 30T	Asphalt, Hot Mix Delivered from Sacramento	31	146	0.7	208	474	Intake 5 to/from Sacramento	21	42	Diesel Tier 4
	Truck/Flatbed 4 T Highway	Roller and Loader to Sacramento	1	1.3	0.6	2	2.0	Intake 5 to/from Sacramento	19	38	Diesel
Intake 5 - Central & Eastern - 19 Intake 5 - Central & Eastern - 19 Intake 5 - Central & Eastern - 19 Intake 5 - Central & Eastern - 19 Intake 5 - Central & Eastern - 19 Intake 5 - Central & Eastern - 19 Intake 5 - Central & Eastern - 19 Intake 5 - Central & Eastern - 19 Intake 5 - Central & Eastern - 19	Pickup 1/2T/2 WD	Materials from Sacramento	200	1570.9	0.6	2480	12.4	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline
	Pickup, 3/4T, 4wd	Materials from Sacramento	200	1193.1	0.6	1884	9.4	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline
	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	200	13.0	0.6	21	0.1	Intake 5 to/from Sacramento	19	38	Diesel
	Truck/End Dump/10-13cy/ Hwy	Materials from Sacramento	200	183.3	0.6	289	1.4	Intake 5 to/from Sacramento	19	38	Diesel
	Truck & Bottom Dump/ 21cy/ 30T	Materials from Sacramento	200	96	0.6	152	474	Intake 5 to/from Sacramento	19	38	Diesel Tier 4
	Truck/Flatbed 4 T Highway	Materials from Sacramento	200	82.3	0.6	130	0.6	Intake 5 to/from Sacramento	19	38	Diesel
	Truck, Tractor, 75000#, 6 x 4	Materials from Sacramento	200	395.0	0.6	624	11	Intake 5 to/from Sacramento	19	38	Diesel
	Concrete Transit Mix Truck/ 12cy	Concrete from Lambert CBP	200	4.0	0.1	30	0.2	Intake to/from Lambert CBP	4	8	Diesel
	Truck/End Dump/16-20cy/ Hwy	Gravel and Base Rock from Sacramento	200	2950.1	0.6	4658	23	Intake 5 to/from Sacramento	19	38	Diesel
Intake 5 - Central & Eastern - 19 Intake 5 - Central & Eastern - 19 Intake 5 - Central & Eastern - 19 Intake 5 - Central & Eastern - 19	Truck, Flatbed, 10T, Hwy	Rebar and Other Materials from Sacramento	200	309.1	0.6	488	24	Intake 5 to/from Sacramento	19	38	Diesel
	Truck/Flatbed 4 T Highway	Roller, Loader, two Tractors, two Excavators, Scraper, and two Cranes to Sacramento	1	5.7	0.6	9	9.0	Intake 5 to/from Sacramento	19	38	Diesel
	Pickup 1/2T/2 WD	Materials from Sacramento	95	891.8	0.6	1408	14.8	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline
	Pickup, 3/4T, 4wd	Materials from Sacramento	95	673.9	0.6	1064	11.2	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline
Intake 5 - Central & Eastern - 22 Intake 5 - Central & Eastern - 22 Intake 5 - Central & Eastern - 22 Intake 5 - Central & Eastern - 22 Intake 5 - Central & Eastern - 22 Intake 5 - Central & Eastern - 22	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	95	1602.9	0.6	2531	26.6	Intake 5 to/from Sacramento	19	38	Diesel
	Truck/End Dump/10-13cy/ Hwy	Materials from Sacramento	95	1282.9	0.6	2026	21.3	Intake 5 to/from Sacramento	19	38	Diesel
	Concrete Transit Mix Truck/ 12cy	Concrete from Lambert CBP	95	423.5	0.1	3176	33	Intake to/from Lambert CBP	4	8	Diesel
	Truck & Bottom Dump/ 21cy/ 30T	Asphalt, Hot Mix Delivered from Sacramento	95	424	0.7	605	474	Intake 5 to/from Sacramento	21	42	Diesel Tier 4
	Truck/End Dump/16-20cy/ Hwy	Gravel and Base Rock from Sacramento	95	583.3	0.6	921	10	Intake 5 to/from Sacramento	19	38	Diesel
	Truck/Flatbed 4 T Highway	Two Rollers, three Cranes, three Loaders, and Grader to Sacramento	1	5.7	0.6	9	9.0	Intake 5 to/from Sacramento	19	38	Diesel
Intake 5 - Central & Eastern - 22 Intake 5 - Central & Eastern - 22	Truck/Flatbed 4 T Highway	Two Pavers and two Rollers from and to Sacramento	2	5.1	0.6	8	4.0	Intake 5 to/from Sacramento	19	38	Diesel
	Truck/End Dump/10-13cy/ Hwy	Materials from Sacramento	34	241.9	0.6	382	11.2	Intake 5 to/from Sacramento	19	38	Diesel
Intake 5 - Central & Eastern - 23 Intake 5 - Central & Eastern - 23 Intake 5 - Central & Eastern - 23 Intake 5 - Central & Eastern - 23	Truck/Flatbed 4 T Highway	Materials from Sacramento	34	241.9	0.6	382	11.2	Intake 5 to/from Sacramento	19	38	Diesel
	Truck/End Dump/16-20cy/ Hwy	Gravel and Riprap Rock from Sacramento	34	119.1	0.6	188	6	Intake 5 to/from Sacramento	19	38	Diesel
	Truck/Flatbed 4 T Highway	Crane and Loader to Sacramento	1	1.3	0.6	2	2.0	Intake 5 to/from Sacramento	19	38	Diesel
	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	53	38.5	0.6	45	0.8	Intake 5 to/from Sacramento	19	38	Diesel
Intake 5 - Central & Eastern - 25 Intake 5 - Central & Eastern - 25 Intake 5 - Central & Eastern - 25	Pickup 1/2T/2 WD	Materials from Sacramento	40	208.0	0.6	328	8.2	Intake 5 to/from Sacramento	19	38	Hybrid Gasoline
	Truck/Flatbed 4 T Highway	Crane and Loader to Sacramento	40	46.2	0.6	2	0.1	Intake 5 to/from Sacramento	19	38	Diesel
	Truck, Water, 4 Ngpl, Hwy	kd Water from Sacramento Regional	40	595.0	0.4	1373	34.3	Intake 3 to/from Sacramento Regional WWTP	13	26	Diesel

Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) – on the Construction Site									Miles On-Site	
Intake 5 - Central & Eastern - 1	Trailer, Flatbed, 40T	Off-Highway Truck	51	120.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	600	Diesel
Intake 5 - Central & Eastern - 2	Articulated Rear Dump 22 CV/CAT 735	Dumper	145	22.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	112	Diesel or Hybrid
Intake 5 - Central & Eastern - 2	Trailer, Flatbed, 40T	Off-Highway Truck	145	106.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	534	Diesel
Intake 5 - Central & Eastern - 3	Articulated Rear Dump 22 CV/CAT 730	Dumper	222	3519.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	17599	Diesel or Hybrid
Intake 5 - Central & Eastern - 3	Trailer, Flatbed, 40T	Off-Highway Truck	222	120.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	600	Diesel
Intake 5 - Central & Eastern - 3	Trailer, Lowboy, 120T	Off-Highway Truck	222	308.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1540	Diesel
Intake 5 - Central & Eastern - 5	Articulated Rear Dump 22 CV/CAT 730	Dumper	399	4750.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	23750	Diesel or Hybrid
Intake 5 - Central & Eastern - 5	Trailer, Lowboy, 120T	Off-Highway Truck	399	325.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1629	Diesel
Intake 5 - Central & Eastern - 5	Truck, 400hp & End Dump Tr, 2Bcy, 36T	Dumper	399	1670.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	8355	Diesel
Intake 5 - Central & Eastern - 8	Articulated Rear Dump 22 CV/CAT 730	Dumper	105	189.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	950	Diesel or Hybrid
Intake 5 - Central & Eastern - 8	CAT 730 Rear Dump	Dumper	105	261.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1305	Diesel or Hybrid
Intake 5 - Central & Eastern - 12	Articulated Rear Dump 22 CV/CAT 730	Dumper	530	2773.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	13869	Diesel or Hybrid
Intake 5 - Central & Eastern - 12	Trailer, Lowboy, 50T	Off-Highway Truck	530	665.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3325	Diesel
Intake 5 - Central & Eastern - 13	Trailer, Lowboy, 50T	Off-Highway Truck	196	83.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	416	Diesel
Intake 5 - Central & Eastern - 14	Articulated Rear Dump 22 CV/CAT 730	Dumper to move soil on-site	432	1991.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	9959	Diesel or Hybrid
Intake 5 - Central & Eastern - 14	Trailer, Lowboy, 50T	Off-Highway Truck	432	180.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	900	Diesel
Intake 5 - Central & Eastern - 15	Articulated Rear Dump 22 CV/CAT 730	Dumper	215	80.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	400	Diesel or Hybrid
Intake 5 - Central & Eastern - 15	Trailer, Lowboy, 120T	Off-Highway Truck	215	457.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2286	Diesel
Intake 5 - Central & Eastern - 16	Trailer, Lowboy, 120T	Off-Highway Truck	3	34.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	173	Diesel
Intake 5 - Central & Eastern - 16	Trailer, Flatbed, 40T	Off-Highway Truck	3	69.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	345	Diesel
Intake 5 - Central & Eastern - 17	Articulated Rear Dump 22 CV/CAT 730	Dumper	63	16.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	80	Diesel or Hybrid
Intake 5 - Central & Eastern - 19	Articulated Rear Dump 22 CV/CAT 730	Dumper	200	3824.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	19121	Diesel or Hybrid
Intake 5 - Central & Eastern - 19	Trailer, Lowboy, 50T	Off-Highway Truck	200	20.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	100	Diesel
Intake 5 - Central & Eastern - 22	Trailer, Flatbed, 40T	Off-Highway Truck	95	296.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1481	Diesel
Intake 5 - Central & Eastern - 22	Trailer, Lowboy, 120T	Off-Highway Truck	95	63.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	315	Diesel

Employees Required to Intake 5_1500 cfs_Central & Eastern - Tee Screens
Options 7B, 8B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
Intake 5 - Central & Eastern - 1	Iron Worker-Rigger	120.0	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 1	Operator G3a Cranes 45 t and under	120.0	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 1	Teamster G4 Tractor, Lowbed/Trailer	120.0	10		Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-1						
Intake 5 - Central & Eastern - 2	Carpenter Apprentice	2116.9	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Carpenter Foreman	2183.6	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Carpenter Journeyman	333.3	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Carpenter, Bridge and Highway	12611.9	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Cement Mason Foreman	66.7	10			
Intake 5 - Central & Eastern - 2	Cement Mason Journeyman	200.0	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Electrical Foreman	1639.1	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Electrician Journeyman	9157.8	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Iron Worker Foreman	69.2	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Iron Worker Journeyman	9040.5	10			
Intake 5 - Central & Eastern - 2	Rebar/Struct	5.6	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Iron Worker-Rigger	3640.5	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Laborer Foreman	441.9	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Laborer G1 Pipe layers	7.6	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Laborer G1 Power Tamper	66.7	10			
Intake 5 - Central & Eastern - 2	Laborer G1 Vibrator, Green Cutter	266.7	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Laborer G2 Concrete Laborer	5114.7	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Laborer G2 General	140.6	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Laborer G3 Flagman	11424.0	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Laborer G4 Clean-up	172.2	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	OPERATING ENGINEER FOREMAN	7.5	10			
Intake 5 - Central & Eastern - 2	Operator G2 Excavator 3.5 to 7.0 cy	131.9	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Operator G2 Finish Blade	354.7	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Operator G2a Cranes 45 to 100 t	5576.8	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Operator G3 BH-Loader>3/4cy	66.2	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Operator G3 Loader >4cy	152.1	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Operator G4 Dozer > Push Cat	114.2	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Operator G4 Grade Check	16.7	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Operator G4 Hvy Duty Mechanic	230.9	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Operator G4a Boom truck<15 ton	3807.3	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Operator G5 Compactor w-blade	114.2	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Operator G5 Concrete Pump	33.3	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Operator G7 Roller, Compactor	45.0	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Operator G8 Pump	11.9	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Teamster G1 Hwy ED<6cy, Flatbed	2922.7	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Teamster G2 Hwy ED 6-8cy, Water	367.0	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Teamster G3 Boom Truck	1978.4	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 2	Teamster G3 ED 8-24cy, Water>7mg	256.8	10		Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-2						
Intake 5 - Central & Eastern - 3	Carpenter Apprentice	154.0	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Carpenter Foreman	154.0	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Carpenter Journeyman	308.0	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Electrical Foreman	158.5	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Electrical Lineman	480.0	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Electrician Journeyman	154.0	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Iron Worker Journeyman Rebar/S	308.0	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Laborer G2 General	38751.6	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Laborer G3 Flagman	691.2	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	OPERATING ENGINEER FOREMAN	11451.8	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Operator G2 Excavator 3.5 to 7.0	980.0	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Operator G2 Finish Blade	1135.4	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Operator G2 Plant Operator	20317.6	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Operator G3 BH-Loader>3/4cy	10552.7	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Operator G3 Loader >4cy	12.7	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Operator G3a Cranes 45 t and under	10278.8	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Operator G4 Dozer > Push Cat	2424.2	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Operator G4 Grade Check	11075.9	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Operator G4 Hvy Duty Mechanic	10158.8	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Operator G4 Scraper	1816.4	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Operator G4a Boom truck<15 ton	394.0	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Operator G5 Compactor w-blade	1051.4	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Operator G5 Drilling & Boring Mach	564.9	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Operator G7 Oller	564.9	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Operator G8a Skidsteer <Bobcat 743	120.0	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Teamster G1 Hwy ED<6cy, Flatbed	10278.8	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Teamster G2 Hwy ED 6-8cy, Water<7	11495.7	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Teamster G3 Boom Truck	77.0	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Teamster G3 ED 8-24cy, Water>7mg	4067.6	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 3	Teamster G4 Tractor, Lowbed/Trailer	428.0	10		Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-3						
Intake 5 - Central & Eastern - 4	Laborer G2 General	12121.3	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 4	Laborer Foreman	3030.3	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 4	Operator G4 Loader <4.1cy	3030.3	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 4	Operator G6 Tractor	1515.2	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 4	Teamster G1 Hwy ED<6cy, Flatbed	6060.7	10		Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-4						
Intake 5 - Central & Eastern - 5	Carpenter Apprentice	124.2	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Carpenter Foreman	124.2	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Carpenter Journeyman	248.4	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Electrical Foreman	31.1	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Electrician Journeyman	124.2	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Iron Worker Journeyman	248.4	10			
Intake 5 - Central & Eastern - 5	Rebar/Struct	35.7	10		Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Laborer Foreman				Sacramento to/from Intake 5	19

Intake 5 - Central & Eastern - 5	Laborer G2 General	91828.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Laborer G3 Flagman	217.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	OPERATING ENGINEER FOREMAN	31908.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Operator G1a Cranes>100 t	49.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Operator G2 Excavator 3.5 to 7.0 cy	1211.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Operator G2 Finish Blade	1437.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Operator G2 Plant Operator	60815.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Operator G2a Cranes 45 to 100 t	49.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Operator G3 BH-Loader>3/4cy	30431.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Operator G3 Loader >4cy	284.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Operator G3a Cranes 45 t and under	30407.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Operator G4 Dozer & Push Cat	3635.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Operator G4 Grade Check	31876.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Operator G4 Hvy Duty Mechanic	30407.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Operator G4 Scraper	2078.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Operator G4a Boom truck<15 ton	124.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Operator G5 Compactor w-blade	1205.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Operator G7 Oiler	49.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Operator G7 Roller, Compactor	167.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Operator G8 Pump	271.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Operator G8a Skidsteer <Bobcat 743	47.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Pile Driver Foreman	143.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Pile Driver Wharf and Dock	248.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Teamster G1 Hwy ED<6cy, Flatbed	3045.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Teamster G2 Hwy ED 6-8cy, Water<7	32008.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Teamster G3 ED 8-24cy, Water>7mg;	6702.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 5	Teamster G4 Tractor, Lowbed/Traile	276.0	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-5					
Intake 5 - Central & Eastern - 6	Iron Worker-Rigger	19.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 6	Laborer G2 General	348.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 6	Laborer G3 Flagman	52.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 6	OPERATING ENGINEER FOREMAN	108.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 6	Operator G2 Finish Blade	26.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 6	Operator G3 BH-Loader>3/4cy	108.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 6	Operator G3 Loader >4cy	26.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 6	Operator G4 Grade Check	115.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 6	Operator G4a Boom truck<15 ton	19.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 6	Operator G5 Asphalt Roller	126.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 6	Operator G5 Compactor w-blade	26.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 6	Operator G5 Paver	63.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 6	Operator G8 Pump	5.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 6	Teamster G2 Hwy ED 6-8cy, Water<7	84.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 6	Teamster G3 Boom Truck	19.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 6	Teamster G3 ED 8-24cy, Water>7mg;	78.8	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-6					
Intake 5 - Central & Eastern - 7	Laborer G2 General	103.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 7	Operator G1a Cranes>100 t	117.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 7	Operator G2a Cranes 45 to 100 t	1455.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 7	Operator G4a Boom truck<15 ton	530.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 7	Pile Driver Foreman	1653.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 7	Pile Driver Journeyman	51.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 7	Pile Driver Wharf and Dock	5872.2	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-7					
Intake 5 - Central & Eastern - 8	Bottomlander	99.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Carpenter	436.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Carpenter Foreman	109.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Compactor Operator	1199.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Crane Oiler	587.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Dozer Operator	1227.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Excavator Operator	217.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	General Foreman	591.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	General Laborer	2761.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Grade Setter / Checker	1227.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Grader Operator	1286.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Hyd Crane Operator	412.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Iron Worker	2997.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Iron Worker Foreman	522.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Lead Miner	195.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Loader Operator	435.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Mechanic Welder	379.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Miner	1789.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Shaft Crane Operator	687.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Shifter	707.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Toplander	437.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 8	Truck Driver	1460.3	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-8					
Intake 5 - Central & Eastern - 9	Hyd Crane Operator	68.8	24	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 9	Lead Miner	17.2	24	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 9	Miner	137.7	24	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 9	Shifter	17.2	24	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-9					
Intake 5 - Central & Eastern - 10	Shifter	90.0	24	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 10	Lead Miner	90.0	24	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 10	Miner	720.0	24	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 10	Hyd Crane Operator	90.0	24	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-10					
Intake 5 - Central & Eastern - 11	Bottomlander	174.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 11	Concrete Pump Operator	86.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 11	Crane Oiler	346.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 11	Electrician	234.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 11	Hyd Crane Operator	54.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 11	Iron Worker	853.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 11	Iron Worker Foreman	106.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 11	Lead Miner	513.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 11	Mechanic Welder	426.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 11	Miner	4064.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 11	Shaft Crane Operator	393.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 11	Shifter	537.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 11	Toplander	393.0	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-11					
Intake 5 - Central & Eastern - 12	Carpenter Apprentice	603.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Carpenter Foreman	7411.8	10	Sacramento to/from Intake 5	19

Intake 5 - Central & Eastern - 12	Carpenter Journeyman	24311.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Cement Mason Foreman	1286.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Cement Mason Journeyman	4973.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Electrical Foreman	150.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Electrician Journeyman	603.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Iron Worker Foreman	3877.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Iron Worker Journeyman Rebar/Stru	30077.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Laborer Foreman	3729.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Laborer G1 Vibrator, Green Cutter	976.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Laborer G2 Concrete Laborer	17645.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Laborer G2 General	24436.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Laborer G2 High Pressure Nozzlemar	2078.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Laborer G4 Clean-up	3073.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	OPERATING ENGINEER FOREMAN	2380.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G1a Cranes>100 t	8132.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G2 Excavator 3.5 to 7.0 cy	26.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G2 Finish Blade	13.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G2 Plant Operator	3227.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G2a Cranes 45 to 100 t	4824.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G3 BH-Loader>3/4cy	205.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G3 Dozer w-slope board	1024.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G3 Loader >4cy	3199.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G3a Cranes 45 t and under	512.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G4 Dozer & Push Cat	2227.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G4 Hvy Duty Mechanic	2657.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G4 Welder	603.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G4a Boom truck<15 ton	301.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G5 Compactor w-blade	26.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G5 Concrete Pump	1731.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G5 Drilling & Boring Mach	2049.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G6 Conc Saw	2049.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G7 Oiler	11417.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G-8 Mech helper	2412.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Operator G8a Skidsteer <Bobcat 743	1024.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Pile Driver Wharf and Dock	1662.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Teamster G1 Hwy ED<6cy, Flatbed	2049.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Teamster G2 Hwy ED 6-8cy, Water<7	653.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Teamster G3 Boom Truck	301.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Teamster G3 ED 8-24cy, Water>7mg;	6767.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 12	Teamster G4 Tractor, Lowbed/Trailei	665.0	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-12					
Intake 5 - Central & Eastern - 13	Carpenter Foreman	3851.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Carpenter Journeyman	11038.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Cement Mason Foreman	2080.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Cement Mason Journeyman	12096.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Iron Worker Foreman	4266.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Iron Worker Journeyman Rebar/Stru	29629.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Laborer Foreman	1173.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Laborer G1 Vibrator, Green Cutter	2005.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Laborer G2 Concrete Laborer	14576.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Laborer G2 General	8593.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Laborer G2 High Pressure Nozzlemar	240.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Operator G1a Cranes>100 t	4382.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Operator G2a Cranes 45 to 100 t	1540.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Operator G3 Loader >4cy	83.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Operator G4 Hvy Duty Mechanic	351.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Operator G5 Concrete Pump	1002.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Operator G7 Oiler	4432.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Pile Driver Journeyman	332.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Teamster G3 ED 8-24cy, Water>7mg;	3109.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 13	Teamster G4 Tractor, Lowbed/Trailei	83.1	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-13					
Intake 5 - Central & Eastern - 14	Bottomlander	1360.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Bulfgang Foreman	938.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Bulfgang Laborer	5237.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Carpenter Foreman	1775.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Carpenter Journeyman	12787.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Cement Mason Foreman	988.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Cement Mason Journeyman	4251.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Iron Worker Foreman	1705.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Iron Worker Journeyman Rebar/Stru	8352.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Laborer Foreman	480.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Laborer G1 Power Tamper	363.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Laborer G1 Vibrator, Green Cutter	517.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Laborer G2 Concrete Laborer	6225.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Laborer G2 General	7915.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Laborer G2 High Pressure Nozzlemar	265.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Lead Miner	520.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Loader Operator	212.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	OPERATING ENGINEER FOREMAN	588.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Operator G1a Cranes>100 t	2702.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Operator G2 Excavator 3.5 to 7.0 cy	588.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Operator G2 Finish Blade	56.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Operator G2a Cranes 45 to 100 t	1051.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Operator G3 Loader >4cy	543.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Operator G4 Dozer & Push Cat	1177.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Operator G4 Grade Check	294.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Operator G4 Hvy Duty Mechanic	195.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Operator G5 Concrete Pump	258.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Operator G7 Oiler	3183.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Pile Driver Journeyman	720.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Teamster G2 Hwy ED 6-8cy, Water<7	238.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Teamster G3 ED 8-24cy, Water>7mg;	2945.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 14	Teamster G4 Tractor, Lowbed/Trailei	180.0	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-14					
Intake 5 - Central & Eastern - 15	Carpenter Foreman	2789.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Carpenter Journeyman	1510.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Electrical Foreman	132.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Electrician Journeyman	1578.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Iron Worker Foreman	58.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Iron Worker Journeyman Rebar/Stru	1393.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Iron Worker-Rigger	507.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Laborer Foreman	160.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Laborer G1 Vibrator, Green Cutter	22.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Laborer G2 Concrete Laborer	88.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Laborer G2 General	3383.2	10	Sacramento to/from Intake 5	19

Intake 5 - Central & Eastern - 15	Laborer G4 Clean-up	960.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Millwright	9144.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	OPERATING ENGINEER FOREMAN	40.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Operator G1a Cranes>100 t	807.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Operator G3 Loader >4cy	40.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Operator G3a Cranes 45 t and under	4.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Operator G4 Dozer & Push Cat	40.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Operator G4 Grade Check	40.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Operator G4 Hvy Duty Mechanic	29.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Operator G4a Boom truck<15 ton	1138.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Operator G5 Compactor w-blade	40.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Operator G5 Concrete Pump	4.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Operator G6 Tractor	160.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Operator G7 Oiler	507.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Operator G8 Pump	160.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Operator G8a Skidsteer <Bobcat 743	160.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Pipefitter Apprentice	58.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Pipefitter Foreman	29.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Pipefitter Journeyman	176.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Teamster G1 Hwy ED<6cy, Flatbed	405.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Teamster G2 Hwy ED 6-8cy, Water<7	180.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Teamster G3 ED 8-24cy, Water>7mg;	91.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 15	Teamster G4 Tractor, Lowbed/Traile	457.2	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-15					
Intake 5 - Central & Eastern - 16	Iron Worker-Rigger	69.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 16	Laborer G2 General	103.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 16	OPERATING ENGINEER FOREMAN	34.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 16	Operator G1a Cranes>100 t	34.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 16	Operator G2 Plant Operator	6.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 16	Operator G3 BH-Loader>3/4cy	34.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 16	Operator G3a Cranes 45 t and und	34.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 16	Operator G4 Hvy Duty Mechanic	103.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 16	Operator G7 Oiler	34.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 16	Operator G-8 Mech helper	103.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 16	Teamster G1 Hwy ED<6cy, Flatbed	34.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 16	Teamster G2 Hwy ED 6-8cy, Wate	3.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 16	Teamster G4 Tractor, Lowbed/Tr	103.5	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-16					
Intake 5 - Central & Eastern - 17	Carpenter Apprentice	333.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Carpenter Foreman	3167.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Carpenter Journeyman	3548.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Carpenter, Bridge and Highway	221.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	CEMENT MASON	22.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Cement Mason Foreman	7.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Electrical Foreman	881.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Electrician Journeyman	5997.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Iron Worker Foreman	3084.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Iron Worker Journeyman	5386.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Rebar/Struct	5050.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Laborer G1 Vibrator, Green Cutter	7.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Laborer G2 Concrete Laborer	29.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Laborer G2 General	91414.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Laborer G3 Flagman	8.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Millwright	17266.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	OPERATING ENGINEER FOREMAN	94.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Operator G1a Cranes>100 t	1849.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Operator G2a Cranes 45 to 100 t	1401.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Operator G3 Gradall	86.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Operator G3 Loader >4cy	122.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Operator G3a Cranes 45 t and under	8.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Operator G4 Dozer & Push Cat	8.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Operator G4 Grade Check	8.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Operator G4 Hvy Duty Mechanic	41.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Operator G4a Boom truck<15 ton	1765.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Operator G5 Compactor w-blade	8.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Operator G5 Concrete Pump	1.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Operator G7 Oiler	327.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Pile Driver Foreman	223.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Pile Driver Wharf and Dock	669.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Pipefitter Apprentice	3294.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Pipefitter Foreman	1767.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Pipefitter Journeyman	7711.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Teamster G1 Hwy ED<6cy, Flatbed	3135.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Teamster G2 Hwy ED 6-8cy,	4.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Teamster G3 ED 8-24cy,	19.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 17	Water>7mgal			Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-17					
Intake 5 - Central & Eastern - 18	Iron Worker-Rigger	9.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 18	Laborer G2 General	371.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 18	OPERATING ENGINEER FOREMAN	92.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 18	Operator G3 BH-Loader>3/4cy	92.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 18	Operator G4 Grade Check	83.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 18	Operator G4a Boom truck<15 ton	9.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 18	Operator G5 Asphalt Roller	166.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 18	Operator G5 Paver	83.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 18	Teamster G2 Hwy ED 6-8cy, Water<7	41.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 18	Teamster G3 Boom Truck	9.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 18	Teamster G3 ED 8-24cy, Water>7mg;	41.5	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-18					
Intake 5 - Central & Eastern - 19	Carpenter Apprentice	471.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Carpenter Foreman	553.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Carpenter Journeyman	511.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Carpenter, Bridge and Highway	942.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	CEMENT MASON	247.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Cement Mason Foreman	82.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Electrical Foreman	1304.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Electrician Journeyman	3069.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Iron Worker Foreman	105.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Iron Worker Journeyman Rebar/Stru	2440.7	10	Sacramento to/from Intake 5	19

Intake 5 - Central & Eastern - 19	Iron Worker-Rigger	1500.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Laborer Foreman	746.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Laborer G1 Pipe layers	1466.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Laborer G1 Vibrator, Green Cutter	82.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Laborer G2 Concrete Laborer	329.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Laborer G2 General	4076.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Laborer G3 Fence Builder	52.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Laborer G3 Flagman	51.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Laborer G4 Clean-up	484.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	OPERATING ENGINEER FOREMAN	143.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Operator G1a Cranes>100 t	20.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Operator G2 Excavator 3.5 to 7.0 cy	1199.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Operator G2 Finish Blade	2132.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Operator G2a Cranes 45 to 100 t	161.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Operator G3 BH-Loader>3/4cy	1479.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Operator G3 Loader >4cy	98.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Operator G3a Cranes 45 t and under	846.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Operator G4 Dozer & Push Cat	1627.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Operator G4 Grade Check	1528.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Operator G4 Hwy Duty Mechanic	20.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Operator G4 Scraper	1591.2	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Operator G4a Boom truck<15 ton	100.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Operator G5 Compactor w-blade	1527.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Operator G5 Concrete Pump	16.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Pile Driver Journeyman	100.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Teamster G1 Hwy ED<6cy, Flatbed	95.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Teamster G2 Hwy ED 6-8cy, Water<7	2037.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Teamster G3 Boom Truck	571.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Teamster G3 ED 8-24cy, Water>7mg;	3961.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 19	Teamster G4 Tractor, Lowbed/Traile	395.0	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-19					
Intake 5 - Central & Eastern - 20	Laborer Foreman	73.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 20	Laborer G4 Clean-up	294.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 20	Operator G1a Cranes>100 t	73.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 20	Operator G2a Cranes 45 to 100 t	36.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 20	Operator G4a Boom truck<15 ton	73.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 20	Pile Driver Journeyman	73.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 20	Pile Driver Wharf and Dock	73.5	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-20					
Intake 5 - Central & Eastern - 21	Diver Tender	90.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 21	Laborer Foreman	90.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 21	Laborer G4 Clean-up	360.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 21	Operator G1a Cranes>100 t	90.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 21	Operator G2a Cranes 45 to 100 t	90.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 21	Pile Driver Journeyman	90.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 21	Pile Driver Wharf and Dock	450.0	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-21					
Intake 5 - Central & Eastern - 22	Carpenter Journeyman	139.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Cement Mason Journeyman	711.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Electrical Foreman	210.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Electrical Lineman	210.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Iron Worker-Rigger	66.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Laborer Foreman	1730.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Laborer G1 Pipe layers	2082.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Laborer G2 Concrete Laborer	279.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Laborer G2 General	8469.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Laborer G3 Fence Builder	351.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Laborer G3 Flagman	163.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Laborer G6 Gumnite Nozzleman	641.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	OPERATING ENGINEER FOREMAN	792.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G1a Cranes>100 t	63.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G2 Finish Blade	81.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G2 Plant Operator	283.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G2a Cranes 45 to 100 t	63.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G3 BH-Loader>3/4cy	2373.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G3 Loader >4cy	283.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G3a Cranes 45 t and under	66.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G4 BH-Loader <.76cy	66.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G4 Grade Check	424.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G4a Boom truck<15 ton	66.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G5 Asphalt Roller	117.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G5 Compactor w-blade	283.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G5 Curb & Gutter Conc Fini	139.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G5 Paver	342.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G6 Grout Mach	320.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G7 Oiler	346.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G7 Roller, Compactor	81.7	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G8 Pump	16.3	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Operator G8a Skidsteer <Bobcat 743	1120.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Pile Driver Foreman	63.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Pile Driver Wharf and Dock	252.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Teamster G1 Hwy ED<6cy, Flatbed	1602.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Teamster G2 Hwy ED 6-8cy, Water<7	2359.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 22	Teamster G3 Boom Truck	66.5	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-22					
Intake 5 - Central & Eastern - 23	Electrical Foreman	241.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 23	Electrician Journeyman	241.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 23	Laborer Foreman	241.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 23	Laborer G2 General	241.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 23	Laborer G4 Clean-up	1451.5	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 23	Operator G4a Boom truck<15 ton	483.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 23	Operator G6 Tractor	241.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 23	Operator G8 Pump	241.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 23	Operator G8a Skidsteer <Bobcat 743	241.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 23	Teamster G1 Hwy ED<6cy, Flatbed	241.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 23	Teamster G2 Hwy ED 6-8cy, Water<7	241.9	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-23					
Intake 5 - Central & Eastern - 24	Laborer G2 General	17.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 24	Laborer G3 Flagman	382.8	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 24	OPERATING ENGINEER FOREMAN	287.1	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 24	Operator G2 Finish Blade	60.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 24	Operator G3 Loader >4cy	17.4	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 24	Operator G4 Dozer & Push Cat	765.6	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 24	Operator G4 Scraper	348.0	10	Sacramento to/from Intake 5	19

Intake 5 - Central & Eastern - 24	Operator G6 Tractor	147.9	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 24	Teamster G2 Hwy ED 6-8cy, Water<7	221.9	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-24					
Intake 5 - Central & Eastern - 25	Carpenter Foreman	192.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 25	Laborer G2 General	192.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 25	Millwright	384.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 25	Operator G2a Cranes 45 to 100 t	27.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 25	Operator G7 Oiler	27.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 25	Pipefitter Apprentice	208.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 25	Pipefitter Foreman	208.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 25	Pipefitter Journeyman	832.0	10	Sacramento to/from Intake 5	19
Intake 5 - Central & Eastern - 25	Teamster G1 Hwy ED<6cy, Flatbed	46.2	10	Sacramento to/from Intake 5	19
TOTAL Intake 5 - Central & Eastern-25					

Marine Inventory for Intake 5_1500 cfs_Central & Eastern - Tee Screens
Options 7B, 8B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
Intake 5 - Central & Eastern - 17	Rock from Stockton and Dredged Soil to Stockton No docks at Intake	2 barges (one with rock and one with equipment) with 2 tugboats will make 3 round trips							

Assume 87 miles/round trip; 9 mph empty and 6 mph loaded per Barges TM

Locomotive Inventory Options 7B, 8B

NOT NEEDED

**Helicopter Inventory for Intake 5_1500 cfs_Central & Eastern - Tee Screens
Options 7B, 8B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Intake 5_1500 cfs_Central & Eastern - Tee Screens
Options 7B, 8B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
Intake 5 - Central & Eastern - 1	240	51	4.7								
Intake 5 - Central & Eastern - 2		145		1851.4	13	26114.3	180			30911.1	213
Intake 5 - Central & Eastern - 3	74	222	0.3	268075.5	1208	263079	1185	68.5	0	249054.9	1122
Intake 5 - Central & Eastern - 5	1.6	399	0.0	359834.3	902	374937.7	940	1.4	0	356565.75	894
Intake 5 - Central & Eastern - 6		21				1860.8	89			1838.5	88
Intake 5 - Central & Eastern - 8		105		30761	293	52762.3	502				
Intake 5 - Central & Eastern - 14		432		59000	137	52218.3	121			29053	67
Intake 5 - Central & Eastern - 15		215				200	1			200	1
Intake 5 - Central & Eastern - 17		63				3481	55			2641.2	42
Intake 5 - Central & Eastern - 19		200		526603.4	2633	316788	1584			297000.3	1485
Intake 5 - Central & Eastern - 22		95				9800	103			9800	103
Intake 5 - Central & Eastern - 24	118	103	1.1					102.7			

**Demolition Assumptions for Intake 5_1500 cfs_Central & Eastern - Tee Screens
Options 7B, 8B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

**Construction Schedule for Lambert Rd Conc Batch Plant - Central & Eastern
Options 7A, 7B, 8A, 8B**

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	LR CBP-C&E -1	10/7/2026	10/14/2026	6	5	10
Embankment	LR CBP-C&E -2	10/15/2026	10/15/2026	1	1	10
Culvert Pipe	LR CBP-C&E -3	10/16/2026	10/16/2026	1	1	10
Subdrain System	LR CBP-C&E -4	10/19/2026	10/19/2026	1	1	10
Road Base	LR CBP-C&E -5	10/20/2026	10/22/2026	3	3	10
Asphalt Paving	LR CBP-C&E -6	10/23/2026	10/27/2026	5	5	10
Erect Batch Plant - Phase 1	LR CBP-C&E -7A	10/28/2026	11/24/2026	19	5	10
Erect Batch Plant - Phase 2	LR CBP-C&E -7B	5/6/2030	5/31/2030	19	5	10
Batch Plant Operations - Phase 1 - Concrete for Shafts	LR CBP-C&E -8	3/17/2027	3/14/2031	1041	5	10
Batch Plant Operations - Phase 2 - Concrete for Intake 5	LR CBP-C&E -9	11/25/2026	8/11/2033	1825	5	10
Batch Plant Operations - Phase 3 - Concrete for Intake 3	LR CBP-C&E -10	6/29/2032	1/29/2035	676	5	10

Acres

Offroad Equipment (Fossil Fuel) Inventory for Lambert Rd Conc Batch Plant - Central & Eastern
Options 7A, 7B, 8A, 8B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
LR CBP-C&E -2	CAT D6LGPDozer w winch	Crawler Tractor	30.55	1	31	Diesel Tier 4 or Hybrid Dies	179	0.43		
LR CBP-C&E -2	Disk, Towed	Off-Highway Tractor	30.55	1	31	Diesel	140	0.44		
LR CBP-C&E -2	CAT 14 M	Grader	15.3	1	15	Diesel	274	0.41		
LR CBP-C&E -2	Water Pump, 4" Diesel	Pumps	3.65	1	4	Diesel	10	0.74		
LR CBP-C&E -2	CAT 815, Roller	Roller	30.55	1	31	Diesel	170	0.38		
LR CBP-C&E -3	Air Compressor 375 cfm	Air Compressor	13.9	1	14	Diesel Tier 4	122	0.48		
LR CBP-C&E -3	CAT LOADER/HOE 416 E	Rubber Tired Loader	27.8	1	28	Diesel	78	0.36		
LR CBP-C&E -3	Compactor, Plate, 22"w x 35"	Plate Compactor	13.9	1	14	Diesel	8.5	0.43		
LR CBP-C&E -4	CAT LOADER/HOE 416 E	Rubber Tired Loader	3.15	1	3	Diesel	78	0.36		
LR CBP-C&E -4	Compactor, Trench Roller, Vib 32"w	Roller	6.25	1	6	Diesel	20	0.38		
LR CBP-C&E -5	CAT 14 M	Grader	108.1	3	36	Diesel	274	0.41		
LR CBP-C&E -5	Water Pump, 4" Diesel	Pumps	108.1	3	36	Diesel	10	0.74		
LR CBP-C&E -5	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	108.1	3	36	Diesel	156	0.38		
LR CBP-C&E -6	CAT LOADER/HOE 416 E	Rubber Tired Loader	124.6	5	25	Diesel	78	0.36		
LR CBP-C&E -6	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	124.6	5	25	Diesel or Hybrid	224	0.42		
LR CBP-C&E -6	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	124.6	5	25	Diesel or Hybrid	137	0.38		
LR CBP-C&E -6	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	124.6	5	25	Diesel or Hybrid	133	0.38		
LR CBP-C&E -7A	Air Compressor 185 cfm	Crane	320	19	17	Diesel or Hybrid	100	0.29		
LR CBP-C&E -7A	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lift	160	19	8	Diesel	78	0.36		
LR CBP-C&E -7A	Grove RT Crane 80T, 275hp	Crane	320	19	17	Diesel	275	0.29		
LR CBP-C&E -7A	Boom Truck, 12.5 Tn Boom	Crane	160	19	8	Diesel or Hybrid	100	0.29		
LR CBP-C&E -7B	Air Compressor 185 cfm	Crane	400	19	21	Diesel or Hybrid	100	0.29		
LR CBP-C&E -7B	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lift	200	19	11	Diesel	78	0.36		
LR CBP-C&E -7B	Grove RT Crane 80T, 275hp	Crane	400	19	21	Diesel	275	0.29		
LR CBP-C&E -7B	Boom Truck, 12.5 Tn Boom	Crane	200	19	11	Diesel or Hybrid	100	0.29		
LR CBP-C&E -8	Portable, 300 Kw, Diesel 480hp	Generator	4340	1041	4	Diesel Tier 4	400	0.74		
LR CBP-C&E -8	CAT 962 H Wheel Loader	Rubber Tired Loader	6511	1041	6	Diesel or Hybrid	230	0.36		
LR CBP-C&E -8	Bobcat 5630 Skid Steer Loader	Skid Loader	2553	1041	2	Diesel	74	0.37		
LR CBP-C&E -9	Bobcat 5630 Skid Steer Loader	Skid Loader	2986	1825	2	Diesel	74	0.37		
LR CBP-C&E -9	CAT 962 H Wheel Loader	Rubber Tired Loader	7614	1825	4	Diesel or Hybrid	230	0.36		
LR CBP-C&E -9	Portable, 300 Kw, Diesel 480hp	Generator	5076	1825	3	Diesel Tier 4	400	0.74		
LR CBP-C&E -10	Bobcat 5630 Skid Steer Loader	Skid Loader	3547	676	5	Diesel	74	0.37		
LR CBP-C&E -10	CAT 962 H Wheel Loader	Rubber Tired Loader	9045	676	13	Diesel or Hybrid	230	0.36		
LR CBP-C&E -10	Portable, 300 Kw, Diesel 480hp	Generator	6030	676	9	Diesel Tier 4	400	0.74		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

**Offroad Equipment (Electric) Inventory for Lambert Rd Conc Batch Plant - Central & Eastern
Options 7A, 7B, 8A, 8B**

Code	Equipment Name			Units	# day	kWh	kWh/day / equipment
LR CBP-C&E -7A	400A,	Electric	Welder	320	19	15	253
LR CBP-C&E -7B	400A,	Electric	Welder	300	19	15	237
LR CBP-C&E -8	400A,	Electric	Welder	511	1041	15	7
LR CBP-C&E -9	400A,	Electric	Welder	597	1825	15	5
LR CBP-C&E -10	400A,	Electric	Welder	709	676	15	16
LR CBP-C&E -2	Light Plant, 4 lite, 1000w			122	1		

Vehicle Inventory for Lambert Rd Conc Batch Plant - Central & Eastern
Options 7A, 7B, 8A, 8B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/mile) (if known)	Fuel (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site													
LR CBP-CBE -1	Pickup, 1/2T, 2wd	Materials from Sacramento	6	128	0.6	225	38	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
LR CBP-CBE -2	Pickup, 1/2T, 2wd	Materials from Sacramento	1	31	0.6	54	54	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
LR CBP-CBE -2	Cat 10dgl w/Cat 770, 512HP	Materials from Sacramento	1	15	0.6	27	27	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -2	Truck, Flatbed, 10T, 1wey	Grader from Sacramento	1	1	0.6	1	1.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -2	Truck, Flatbed, 10T, 1wey	Dozer and Roller to and from Sacramento	2	2	0.6	4	2.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -2	Truck' End Dump' 16-20cy' 1wey	Gravel from Sacramento	1	939	0.6	1657	1657	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -3	Truck, Flatbed, 10T, 1wey	Materials from Sacramento	1	14	0.6	25	25	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -3	Truck, Flatbed, 10T, 1wey	Loader and Compactor from Sacramento	1	1	0.6	2	2.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -4	Truck, End Dump, 10-13cy, 1wey	Materials from Sacramento	1	6	0.6	11	11	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -4	Truck, Flatbed, 10T, 1wey	Compactor to Sacramento	1	1	0.6	1	1.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -5	Pickup, 3/4T, 4wd	Materials from Sacramento	3	108	0.6	191	64	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
LR CBP-CBE -5	Truck' End Dump' 16-20cy' 1wey	Base Rock from Sacramento	1041	579	0.6	1021	1	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -5	Truck, Flatbed, 10T, 1wey	Roller to and from Sacramento	2	1	0.6	2	1.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -5	Truck, Flatbed, 10T, 1wey	Grader to Sacramento	1	1	0.6	1	1.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -6	Truck, Flatbed, 10T, 1wey	Paver and two Rollers to and from Sacramento	2	3	0.6	6	3.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -6	Truck & Bottom Dump' 25cy' 30T	Asphalt, Hot Mix Materials from Sacramento	5	388.3	0.6	685	137	Franklin Boulevard to/from Sacramento	17	34	Diesel Tier 4		
LR CBP-CBE -6	Truck, Flatbed, 10T, 1wey	Loader to Sacramento	1	1	0.6	1	1.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -7A	Pickup, 1/2T, 2wd	Materials from Sacramento	19	320	0.6	565	30	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
LR CBP-CBE -7A	Pickup, 1/2T, 10T, 1wey	Two Cranes and Aerial Lift to and from Sacramento	2	3	0.6	6	3.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -7B	Pickup, 1/2T, 2wd	Materials from Sacramento	19	400	0.6	706	37	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
LR CBP-CBE -7B	Truck, Flatbed, 10T, 1wey	Two Cranes and Aerial Lift to and from Sacramento	2	3	0.6	6	3.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -8	Pickup, 1/2T, 2wd	Materials from Sacramento	1041	2553	0.6	4506	4	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
LR CBP-CBE -8	Truck, Flatbed, 10T, 1wey	Two Loaders from Sacramento	1	1	0.6	2	2.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -8	Truck' End Dump' 16-20cy' 1wey	Cement from Sacramento	1041	1027	0.6	1813	2	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -8	Truck' End Dump' 16-20cy' 1wey	Concrete Aggregate from Sacramento	1041	1923	0.6	3394	3	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -8	Truck' End Dump' 16-20cy' 1wey	Concrete Sand from Sacramento	1041	1535	0.6	2709	3	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -8	Truck' End Dump' 16-20cy' 1wey	Flyash from Sacramento	1041	150	0.6	264	0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -9	Pickup, 1/2T, 2wd	Materials from Sacramento	1825	2986	0.6	5269	3	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
LR CBP-CBE -9	Truck' End Dump' 16-20cy' 1wey	Cement from Sacramento	1825	446	0.6	734	0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -9	Truck' End Dump' 16-20cy' 1wey	Concrete Aggregate from Sacramento	1825	4007	0.6	7072	4	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -9	Truck' End Dump' 16-20cy' 1wey	Concrete Sand from Sacramento	1825	3198	0.6	5644	3	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -9	Truck' End Dump' 16-20cy' 1wey	Flyash from Sacramento	1825	311	0.6	549	0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -10	Pickup, 1/2T, 2wd	Materials from Sacramento	676	3547	0.6	6260	9	Franklin Boulevard to/from Sacramento	17	34	Hybrid Gasoline		
LR CBP-CBE -10	Truck, Flatbed, 10T, 1wey	Two Loaders to Sacramento	1	1	0.6	2	2.0	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -10	Truck' End Dump' 16-20cy' 1wey	Cement from Sacramento	676	1926	0.6	3399	5	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -10	Truck' End Dump' 16-20cy' 1wey	Concrete Aggregate from Sacramento	676	3606	0.6	6363	9	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -10	Truck' End Dump' 16-20cy' 1wey	Concrete Sand from Sacramento	676	2877	0.6	5077	8	Franklin Boulevard to/from Sacramento	17	34	Diesel		
LR CBP-CBE -10	Truck' End Dump' 16-20cy' 1wey	Flyash from Sacramento	676	280	0.6	494	1	Franklin Boulevard to/from Sacramento	17	34	Diesel		
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site													
LR CBP-CBE -1	Cat 730 30T, articulated End Dump	Dumpers	6	766.65	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		3833	Diesel Tier 4 or Hybrid Diesel		
LR CBP-CBE -1	Truck, End Dump, 10-13cy, 1wey	Dumpers	6	766.65	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		3833	Diesel		

Employees Required to Lambert Rd Conc Batch Plant - Central & Eastern Options 7A, 7B, 8A, 8B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip
LR CBP-C&E -1	Operator G4 Dozer & Push Cat	255.55	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -1	Operator G2 Excavator 3.5 to 7.0	255.55	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -1	OPERATING ENGINEER FOREMAN	127.75	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -1	Teamster G2 Hwy ED 6-8cy, Wate	766.65	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -1	Teamster G3 ED 8-24cy, Water>7	766.65	10		Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-1						
LR CBP-C&E -2	Laborer G2 General	3.65	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -2	Operator G5 Compactor w-blade	30.55	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -2	Operator G4 Dozer & Push Cat	30.55	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -2	OPERATING ENGINEER FOREMAN	30.55	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -2	Operator G2 Finish Blade	15.3	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -2	Teamster G2 Hwy ED 6-8cy, Water<7	15.3	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -2	Teamster G3 ED 8-24cy, Water>7	15.3	10		Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-2						
LR CBP-C&E -3	Laborer G1 Pipe layers	55.55	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -3	Laborer Foreman	13.9	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -3	Operator G3 BH-Loader>3/4cy	27.8	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -3	Teamster G1 Hwy ED<6cy, Flatbed	20.85	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -3	Teamster G2 Hwy ED 6-8cy, Water<7	6.95	10		Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-3						
LR CBP-C&E -4	Laborer G1 Pipe layers	12.5	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -4	Laborer G1 Power Tamper	6.25	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -4	Operator G4 Loader <4.1cy	3.15	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -4	Teamster G2 Hwy ED 6-8cy, Water<7	6.25	10		Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-4						
LR CBP-C&E -5	Laborer G3 Flagman	216.25	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -5	Operator G7 Roller, Compactor	108.1	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -5	OPERATING ENGINEER FOREMAN	108.1	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -5	Operator G4 Grade Check	108.1	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -5	Operator G2 Finish Blade	108.1	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -5	Operator G8 Generator	21.6	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -5	Teamster G2 Hwy ED 6-8cy, Water<7	108.1	10		Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-5						
LR CBP-C&E -6	Laborer G2 General	498.35	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -6	Operator G5 Asphalt Roller	249.2	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -6	Operator G3 BH-Loader>3/4cy	124.6	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -6	OPERATING ENGINEER FOREMAN	124.6	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -6	Operator G4 Grade Check	124.6	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -6	Operator G5 Paver	124.6	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -6	Teamster G2 Hwy ED 6-8cy, Water<7	62.3	10		Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-6						
LR CBP-C&E -7A	Carpenter Apprentice	320	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7A	Carpenter Foreman	320	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7A	Millwright	320	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7A	Electrical Foreman	160	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7A	Electrician Journeyman	320	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7A	Iron Worker Journeyman Rebar/Stru	640	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7A	Laborer G2 General	640	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7A	Operator G2a Cranes 45 to 100 t	320	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7A	Teamster G3 Boom Truck	160	10		Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-7A						
LR CBP-C&E -7B	Carpenter Apprentice	400	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7B	Carpenter Foreman	400	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7B	Millwright	400	10		Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -7B	Electrical Foreman	200	10		Sacramento to/from Franklin Boulevard	17

LR CBP-C&E -9	Laborer G4 Clean-up	8,957.0	10	Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -9	Operator G3 Loader >4cy	8,957.0	10	Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -9	OPERATING ENGINEER FOREMAN	2,985.7	10	Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -9	Operator G5 Concrete Conveyor	2,985.7	10	Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -9	Operator G2 Plant Operator	2,985.7	10	Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-9					
LR CBP-C&E -10	Laborer G4 Clean-up	7094.4	10	Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -10	Operator G3 Loader >4cy	10641.6	10	Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -10	OPERATING ENGINEER FOREMAN	3547.2	10	Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -10	Operator G5 Concrete Conveyor	3547.2	10	Sacramento to/from Franklin Boulevard	17
LR CBP-C&E -10	Operator G2 Plant Operator	3547.2	10	Sacramento to/from Franklin Boulevard	17
TOTAL LR CBP-C&E-9					

Marine Inventory for Lambert Rd Conc Batch Plant - Central & Eastern
Options 7A, 7B, 8A, 8B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Lambert Rd Conc Batch Plant - Central & Eastern
Options 7A, 7B, 8A, 8B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Lambert Rd Conc Batch Plant - Central & Eastern
Options 7A, 7B, 8A, 8B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving A
Options 7A, 7B, 8A, 8B

[illegible]

**Demolition Assumptions for Lambert Rd Conc Batch Plant - Central & Eastern
Options 7A, 7B, 8A, 8B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Dierssen Rd - Central & Eastern Access Road**Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B****THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1**

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	DRd-C&E Access -1	1/18/2027	1/21/2027	4	4	10
Embankment	DRd-C&E Access -2	1/22/2027	1/26/2027	5	5	10
Culvert Pipe	DRd-C&E Access -3	1/27/2027	1/27/2027	1	1	10
Subdrain System	DRd-C&E Access -4	1/28/2027	2/9/2027	9	5	10
Road Base	DRd-C&E Access -5	2/10/2027	2/18/2027	7	5	10
Asphalt Paving	DRd-C&E Access -6	2/19/2027	2/22/2027	4	4	10
KRail and Signs	DRd-C&E Access -7	2/23/2027	3/16/2027	14	5	10
Intermediate Overlay	DRd-C&E Access -8	5/22/2030	5/24/2030	3	3	10
Final Overlay	DRd-C&E Access -9	7/21/2037	7/24/2037	4	4	10

Acres**7.2**

Construction Schedule for Franklin Blvd RR - Central & Eastern Access Road
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Sub-Ballast	FB RR-C&E Access -1	6/10/2026	6/25/2026	12	5	10
Ballast	FB RR-C&E Access -2	6/26/2026	7/14/2026	15	5	10
Track	FB RR-C&E Access -3	7/15/2026	8/27/2026	32	5	10

Construction Schedule for Franklin Blvd - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	FB-C&E Access -1	11/24/2026	11/30/2026	5	5	10
Embankment	FB-C&E Access -2	12/1/2026	12/16/2026	12	5	10
Culvert Pipe	FB-C&E Access -3	12/17/2026	12/17/2026	1	1	10
Subdrain System	FB-C&E Access -4	12/18/2026	12/28/2026	9	5	10
Road Base	FB-C&E Access -5	12/29/2026	1/15/2027	14	5	10
Asphalt Paving	FB-C&E Access -6	1/18/2027	1/21/2027	4	4	10
KRail and Signs	FB-C&E Access -7	1/22/2027	1/22/2027	1	1	10
Intermediate Overlay	FB-C&E Access -8	5/27/2030	5/29/2030	3	3	10
Final Overlay	FB-C&E Access -9	7/24/2037	7/29/2037	4	4	10

Acres

5

Construction Schedule for Twin Cities Ring Levee - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Construct Ring Levee	TCC RL-C&E -1	2/28/2028	6/19/2028	96	5	10

Acres44.8

Construction Schedule for Twin Cities Rd - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	TC Rd-C&E Access -1	1/5/2026	1/7/2026	3	3	10
Culvert Pipe & Subdrain System	TC Rd-C&E Access -2	1/8/2026	1/19/2026	10	5	10
Road Base	TC Rd-C&E Access -3	1/20/2026	2/9/2026	15	5	10
Asphalt Paving & KRail and Signs	TC Rd-C&E Access -4	2/10/2026	2/16/2026	5	5	10
Intermediate Overlay	TC Rd-C&E Access -5	6/10/2030	6/12/2030	3	3	10
Final Overlay	TC Rd-C&E Access -6	9/30/2037	10/5/2037	5	5	10

Acres **3.9**

Construction Schedule for Twin Cities Complex - Central Tunnel Shaft
Options 7A, 7B

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Mobilize, Excavate, & Mobilize	TCC-Central - 1	1/5/2026	5/8/2028	611	5	10
Embankment	TCC-Central - 2	3/12/2026	4/21/2026	29	5	10
Subdrain	TCC-Central - 3	4/22/2026	6/9/2026	34	5	10
Mangagement, Engineering, & Field Labor - Reach 2	TCC-Central - 4	3/17/2027	11/3/2036	2513	5	10
Clear and Grub	TCC-Central - 5	5/12/2027	7/12/2027	44	5	10
Excavation, Grading, & Compaction - Reach 2	TCC-Central - 6	3/17/2027	4/24/2028	289	5	10
Raise Shaft Pad for Reach 2	TCC-Central - 7	9/7/2027	4/3/2028	149	5	10
Set Strips, & Concrete for Reach 2	TCC-Central - 8	8/16/2027	11/12/2027	65	5	10
Place Guide Walls Concrete for Reach 2	TCC-Central - 9	4/3/2028	4/26/2028	18	5	10
Slurry Wall, Place Concrete & Rebar, Slurry Wall, Remove Guide Wall, & add Top Beam for Reach 2	TCC-Central - 10	4/27/2028	8/17/2028	81	5	10
Place Guide Walls Concrete for Reach 1	TCC-Central - 11	8/8/2028	8/28/2028	15	5	10
Slurry Wall, Place Concrete & Rebar, Slurry Wall, Remove Guide Wall, & add Top Beam for Reach 1	TCC-Central - 12	8/29/2028	1/4/2029	93	5	10
Excavate Shaft for Reach 2	TCC-Central - 13	1/4/2029	4/4/2029	65	5	10
Mangagement, Engineering, & Field Labor - Reach 1	TCC-Central - 14	3/21/2029	12/11/2034	1495	5	10
Shaft Setup for Reach 1	TCC-Central - 15	3/21/2029	4/18/2029	21	5	10
Excavate Shaft for Reach 1	TCC-Central - 16	4/4/2029	7/3/2029	65	5	10
Place Tremie Seal Rebar, Cooling Pipes, & Seal for Reaches 1 & 2	TCC-Central - 17	6/19/2029	8/2/2029	45	7	24
Dewater Shaft for Reaches 1 & 2	TCC-Central - 18	7/17/2029	8/7/2029	21	7	24
Place TBM Cradle Rebar and Cradle Pour for Reaches 1 & 2	TCC-Central - 19	8/2/2029	8/20/2029	14	5	10
Breakout Slurry Wall for TBM for Reaches 1 & 2	TCC-Central - 20	8/6/2029	9/17/2029	41	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner Reaches 1 & 2	TCC-Central - 21	9/3/2029	1/9/2030	93	5	10
Erect Gantry Crane for Reaches 1 & 2	TCC-Central - 22	11/16/2029	12/10/2029	18	5	10
TBM Assembly including Shaft Utilities for Reach 2	TCC-Central - 23	12/10/2029	6/6/2030	105	5	10
Tunneling Operations including Equipment Delivery for Reach 2	TCC-Central - 24	3/28/2030	6/30/2036	1958	6	20
TBM Assembly including Shaft Utilities for Reach 1	TCC-Central - 25	10/2/2030	1/31/2031	88	5	10
Tunneling Operations including Equipment Delivery for Reach 1	TCC-Central - 26	7/17/2030	9/26/2034	1095	6	20
Remove TBM and Tunnel Equipment for Reach 1	TCC-Central - 27	9/26/2034	12/11/2034	55	5	10
Remove TBM and Tunnel Equipment for Reach 2	TCC-Central - 28	8/29/2036	11/3/2036	49	5	10
Site Restoration	TCC-Central - 29	10/20/2036	4/24/2037	134	5	10

Total Site Acres

507

**Offroad Equipment (Fossil Fuel) Inventory for Twin Cities Complex - Central Tunnel Shaft
Options 7A, 7B**

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
TCC-Central - 1	Air Compressor 185 CFM	Air Compressor	465.3	611	0.8	Diesel Tier 4	49	0.48		
TCC-Central - 1	Boom Truck, 12.5 Tn Boom	Crane	232.96	611	0.4	Diesel or Hybrid	100	0.29		
TCC-Central - 1	CAT D6LGPDozer w winch	Crawler Tractor		611	0.0	Diesel or Hybrid	179	0.43		
TCC-Central - 1	CAT Forklift 5,500 LB	Aerial Lift	28000.2	611	45.8	Diesel	63	0.31		
TCC-Central - 1	Grove RT Crane 30T	Crane		611	0.0	Diesel	160	0.29		
TCC-Central - 1	Hydraulic 40 Ton Crane	Crane		611	0.0	Diesel	300	0.29		
TCC-Central - 1	Hydraulic 9 Ton Crane	Crane		611	0.0	Diesel	85	0.29		
TCC-Central - 1	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator		611	0.0	Diesel	384	0.38		
TCC-Central - 1	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	233	611	0.4	Diesel or Hybrid	75	0.31		
TCC-Central - 2	CAT 14 M	Grader	116.4	29	4.0	Diesel	274	0.41		
TCC-Central - 2	CAT 825, Roller	Rollers	232.8	29	8.0	Diesel	315	0.38		
TCC-Central - 2	CAT D6LGPDozer w winch	Crawler Tractor	232.8	29	8.0	Diesel or Hybrid	179	0.43		
TCC-Central - 2	Disk, Towed	Off-Highway Tractor	232.8	29	8.0	Diesel	140	0.44		
TCC-Central - 3	CAT LOADER/HOE 416 E	Rubber Tired Loader	87.3	34	2.6	Diesel	78	0.36		
TCC-Central - 3	Compactor, Trench Roller, Vib 32"w	Roller	174.6	34	5.1	Diesel	20	0.38		
TCC-Central - 5	CAT D8 Dozer	Crawler Tractor	990.0	44	22.5	Diesel Tier 4 or Hybrid Diesel	179	0.43		
TCC-Central - 5	Grader 16H - 16' Blade	Grader	990.0	44	22.5	Diesel	285	0.41		
TCC-Central - 5	623G Scraper Elevate 21 CY	Scaper	1980.0	44	45.0	Diesel	359	0.48		
TCC-Central - 6	CAT 825H Compactor	Rollers	223.2	289	0.8	Diesel	145	0.38		
TCC-Central - 6	CAT CB-634D Vibratory 84"	Rollers	223.2	289	0.8	Diesel	315	0.38		
TCC-Central - 6	CAT Grader 16H	Grader	223.2	289	0.8	Diesel	285	0.41		
TCC-Central - 6	CAT 980 Loader 7.5 CY	Grader	223.2	289	0.8	Diesel	285	0.41		
TCC-Central - 6	CAT D8 Dozer	Crawler Tractor	4308.7	289	14.9	Diesel Tier 4 or Hybrid Diesel	179	0.43		
TCC-Central - 6	623G Scraper Elevate 21 CY	Scaper	8170.9	289	28.3	Diesel	359	0.48		
TCC-Central - 6	CAT Forklift 5,500 LB	Aerial Lift	372	289	1.3	Diesel	63	0.31		
TCC-Central - 6	Hydraulic 40 Ton Crane	Crane	372	289	1.3	Diesel	300	0.29		
TCC-Central - 6	Hydraulic 9 Ton Crane	Crane	793.5	289	2.7	Diesel	85	0.29		
TCC-Central - 7	CAT CB-634D Vibratory 84"	Rollers	1610.3	149	10.8	Diesel	315	0.38		
TCC-Central - 7	CAT Grader 16H	Grader	1610.3	149	10.8	Diesel	285	0.41		
TCC-Central - 7	CAT D8 Dozer	Crawler Tractor	1610.3	149	10.8	Diesel Tier 4 or Hybrid Diesel	179	0.43		
TCC-Central - 9	CAT Hyd Excavator 1CY	Excavator	9.2	18	0.5	Diesel	138	0.38		
TCC-Central - 9	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	9.2	18	0.5	Diesel or Hybrid	130	0.36		
TCC-Central - 10	1600 CFM Compressor Diesel	Air Compressor	485.9	81	6.0	Diesel Tier 4	540	0.48		
TCC-Central - 10	250 CFM Compressor Diesel	Air Compressor	13.4	81	0.2	Diesel Tier 3	75	0.48		
TCC-Central - 10	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	849.4	81	10.5	Diesel or Hybrid	130	0.36		
TCC-Central - 10	CAT Hyd Excavator 1CY	Excavator	363.5	81	4.5	Diesel	138	0.38		
TCC-Central - 10	Hydraulic 55 Ton Crane	Crane	971.8	81	12.0	Diesel	350	0.29		
TCC-Central - 10	Hydraulic Excavator to 3.5 tons = Kobelco SK485LC' 2.75cy' 345 hp Excavator	Excavator	363.5	81	4.5	Diesel	345	0.38		
TCC-Central - 10	Manitowoc 777 200 Ton Crane	Crane	971.8	81	12.0	Diesel	760	0.29		
TCC-Central - 10	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	485.9	81	6.0	Diesel	8	0.56		
TCC-Central - 10	Slurry Wall Techniwell	Pumps	485.9	81	6.0	Diesel	500	0.74		
TCC-Central - 11	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	9.2	15	0.6	Diesel or Hybrid	130	0.36		
TCC-Central - 11	CAT Hyd Excavator 1CY	Excavator	9.2	15	0.6	Diesel	138	0.38		
TCC-Central - 12	1600 CFM Compressor Diesel	Air Compressor	485.9	93	5.2	Diesel Tier 4	540	0.48		
TCC-Central - 12	250 CFM Compressor Diesel	Air Compressor	13.4	93	0.1	Diesel Tier 3	75	0.48		
TCC-Central - 12	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	485.9	93	5.2	Diesel or Hybrid	130	0.36		
TCC-Central - 12	CAT Hyd Excavator 1CY	Excavator	971.8	93	10.4	Diesel	138	0.38		
TCC-Central - 12	Hydraulic 55 Ton Crane	Crane	971.8	93	10.4	Diesel	350	0.29		
TCC-Central - 12	Hydraulic Excavator to 3.5 tons =	Excavator	363.5	93	3.9	Diesel	345	0.38		
TCC-Central - 12	Manitowoc 777 200 Ton Crane	Crane	971.8	93	10.4	Diesel	760	0.29		
TCC-Central - 12	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	485.9	93	5.2	Diesel	8	0.56		
TCC-Central - 12	Slurry Wall Techniwell	Pumps	485.9	93	5.2	Diesel	500	0.74		
TCC-Central - 13	Manitowoc 777 200 Ton Crane	Crane	658.1	65	10.1	Diesel	760	0.29		
TCC-Central - 15	1600 CFM Compressor Diesel	Air Compressor	149.3	21	7.1	Diesel Tier 4	540	0.48		
TCC-Central - 15	CAT Forklift 5,500 LB	Aerial Lift	400	21	19.0	Diesel	63	0.31		
TCC-Central - 15	Heavy Duty Mechanic Welder	Welder	149.3	21	7.1	Diesel	400	0.45		
TCC-Central - 15	Hydraulic 25 Ton Crane	Crane	149.3	21	7.1	Diesel	100	0.29		
TCC-Central - 15	Hydraulic 40 Ton Crane	Crane	400	21	19.0	Diesel	300	0.29		
TCC-Central - 15	Hydraulic 9 Ton Crane	Crane	400	21	19.0	Diesel	85	0.29		
TCC-Central - 15	Telescope RT Forklift 5500	Forklift	149.3	21	7.1	Diesel	63	0.2		
TCC-Central - 15	Truck Crane Lattice Boom 90T	Crane	149.3	21	7.1	Diesel Tier 4	300	0.29		
TCC-Central - 16	Manitowoc 777 200 Ton Crane	Crane	658.1	65	10.1	Diesel	760	0.29		
TCC-Central - 17	Manitowoc 777 200 Ton Crane	Crane	513.7	45	11.4	Diesel	760	0.29		
TCC-Central - 17	Hydraulic 40 Ton Crane	Crane	153	45	3.4	Diesel	300	0.29		
TCC-Central - 17	Hydraulic 25 Ton Crane	Crane	380	45	8.4	Diesel	100	0.29		
TCC-Central - 18	Hydraulic 15 Ton Crane	Crane	191.3	21	9.1	Diesel	85	0.29		
TCC-Central - 18	Dewater Pump 6"	Pump	765.2	21	36.4	Diesel	50	0.74		
TCC-Central - 18	150 KW Diesel Generator	Generator	191.3	21	9.1	Diesel Tier 4	183	0.74		
TCC-Central - 19	Manitowoc 777 200 Ton Crane	Crane	108.7	14	7.8	Diesel	760	0.29		
TCC-Central - 19	Trailer Conc Pump 100 CY HR	Pump	40.7	14	2.9	Diesel	200	0.74		
TCC-Central - 19	250 CFM Compressor Diesel	Air Compressor	40.7	14	2.9	Diesel Tier 3	75	0.48		
TCC-Central - 20	250 CFM Compressor Diesel	Air Compressor	520.8	41	12.7	Diesel Tier 3	75	0.48		
TCC-Central - 20	Manitowoc 777 200 Ton Crane	Crane	520.8	41	12.7	Diesel	760	0.29		
TCC-Central - 21	250 CFM Compressor Diesel	Air Compressor	962.2	93	10.3	Diesel Tier 3	75	0.48		
TCC-Central - 21	Manitowoc 777 200 Ton Crane	Crane	681.7	93	7.3	Diesel	760	0.29		
TCC-Central - 21	Trailer Conc Pump 100 CY HR	Pump	442	93	4.8	Diesel	200	0.74		

TCC-Central - 21	Manitowoc 999-275 Ton Crane	Crane	468.3	93	5.0	Diesel	900	0.29
TCC-Central - 22	1600 CFM Compressor Diesel	Air Compressor	149.3	18	8.3	Diesel Tier 4	540	0.48
TCC-Central - 22	Hydraulic 25 Ton Crane	Crane	149.3	18	8.3	Diesel	100	0.29
TCC-Central - 22	Truck Crane Lattice Boom 90T	Crane	149.3	18	8.3	Diesel Tier 4	300	0.29
TCC-Central - 22	Telescope RT Forklift 5500	Forklift	149.3	18	8.3	Diesel	63	0.2
TCC-Central - 22	Heavy Duty Mechanic Welder	Welder	149.3	18	8.3	Diesel	400	0.45
TCC-Central - 23	250 CFM Compressor Diesel	Air Compressor	2146.7	105	20.4	Diesel Tier 3	75	0.48
TCC-Central - 23	Hydraulic 40 Ton Crane	Crane	2962.4	105	28.2	Diesel	300	0.29
TCC-Central - 23	Hydraulic 9 Ton Crane	Crane	2122.4	105	20.2	Diesel	85	0.29
TCC-Central - 23	Air Compressor 185 CFM	Air Compressor	22.6	105	0.2	Diesel Tier 4	49	0.48
TCC-Central - 23	Boom Truck, 12.5 Tn Boom	Crane	11.3	105	0.1	Diesel or Hybrid	100	0.29
TCC-Central - 23	CAT Forklift 5,500 LB	Aerial Lift	2122.4	105	20.2	Diesel	63	0.31
TCC-Central - 23	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	11.3	105	0.1	Diesel or Hybrid	75	0.31
TCC-Central - 24	250 CFM Compressor Diesel	Air Compressor	33878.1	1958	17.3	Diesel Tier 3	75	0.48
TCC-Central - 24	Hydraulic 40 Ton Crane	Crane	13895.5	1958	7.1	Diesel	300	0.29
TCC-Central - 24	Hydraulic 9 Ton Crane	Crane	13895.5	1958	7.1	Diesel	85	0.29
TCC-Central - 24	CAT Forklift 5,500 LB	Aerial Lift	13895.5	1958	7.1	Diesel	63	0.31
TCC-Central - 24	CAT D8 Dozer	Crawler Tractor	17182.7	1958	8.8	Diesel Tier 4 or Hybrid Diesel	179	0.43
TCC-Central - 24	CAT 988 H Wheel Loader	Rubber Tired Loader	17182.7	1958	8.8	Diesel	400	0.36
TCC-Central - 24	Grout Pump	Cement & Mortar Mix	1638.9	1958	0.8	Diesel	500	0.56
TCC-Central - 24	Grout Mixer	Cement & Mortar Mix	1638.9	1958	0.8	Diesel	70	0.56
TCC-Central - 25	250 CFM Compressor Diesel	Air Compressor	2146.7	88	24.4	Diesel Tier 3	75	0.48
TCC-Central - 25	Hydraulic 40 Ton Crane	Crane	840	88	9.5	Diesel	300	0.29
TCC-Central - 26	250 CFM Compressor Diesel	Air Compressor	18449.6	1095	16.8	Diesel Tier 3	75	0.48
TCC-Central - 26	Hydraulic 40 Ton Crane	Crane	9836.2	1095	9.0	Diesel	300	0.29
TCC-Central - 26	Hydraulic 9 Ton Crane	Crane	9836.2	1095	9.0	Diesel	85	0.29
TCC-Central - 26	CAT Forklift 5,500 LB	Aerial Lift	9836.2	1095	9.0	Diesel	63	0.31
TCC-Central - 26	CAT D8 Dozer	Crawler Tractor	9650.7	1095	8.8	Diesel Tier 4 or Hybrid Diesel	179	0.43
TCC-Central - 26	CAT 988 H Wheel Loader	Rubber Tired Loader	9650.7	1095	8.8	Diesel	400	0.36
TCC-Central - 26	Grout Pump	Cement & Mortar Mix	909.8	1095	0.8	Diesel	500	0.56
TCC-Central - 26	Grout Mixer	Cement & Mortar Mix	909.8	1095	0.8	Diesel	70	0.56
TCC-Central - 27	1600 CFM Compressor Diesel	Air Compressor	93.3	55	1.7	Diesel Tier 4	540	0.48
TCC-Central - 27	Heavy Duty Mechanic Welder	Welder	93.3	55	1.7	Diesel	400	0.45
TCC-Central - 27	Hydraulic 25 Ton Crane	Crane	93.3	55	1.7	Diesel	100	0.29
TCC-Central - 27	Hydraulic 55 Ton Crane	Crane	667.3	55	12.1	Diesel	350	0.29
TCC-Central - 27	Manitowoc 777 200 Ton Crane	Crane	667.3	55	12.1	Diesel	760	0.29
TCC-Central - 27	Telescope RT Forklift 5500	Forklift	737.3	55	13.4	Diesel	63	0.2
TCC-Central - 27	Truck Crane Lattice Boom 90T	Crane	93.3	55	1.7	Diesel Tier 4	300	0.29
TCC-Central - 28	1600 CFM Compressor Diesel	Air Compressor	93.3	49	1.9	Diesel Tier 4	540	0.48
TCC-Central - 28	Heavy Duty Mechanic Welder	Welder	93.3	49	1.9	Diesel	400	0.45
TCC-Central - 28	Hydraulic 25 Ton Crane	Crane	93.3	49	1.9	Diesel	100	0.29
TCC-Central - 28	Hydraulic 55 Ton Crane	Crane	1152.7	49	23.5	Diesel	350	0.29
TCC-Central - 28	Hydraulic 9 Ton Crane	Crane	76.5	49	1.6	Diesel	85	0.29
TCC-Central - 28	Manitowoc 777 200 Ton Crane	Crane	667.3	49	13.6	Diesel	760	0.29
TCC-Central - 28	Telescope RT Forklift 5500	Forklift	924	49	18.9	Diesel	63	0.2
TCC-Central - 28	Truck Crane Lattice Boom 90T	Crane	93.3	49	1.9	Diesel Tier 4	300	0.29
TCC-Central - 29	Air Compressor 185 CFM	Air Compressor	22.6	134	0.2	Diesel Tier 4	49	0.48
TCC-Central - 29	Boom Truck, 12.5 Tn Boom	Crane	11.3	134	0.1	Diesel or Hybrid	100	0.29
TCC-Central - 29	CAT 12 M	Grader	651	134	4.9	Diesel	173	0.41
TCC-Central - 29	CAT 390 MASS EXC	Excavator	651	134	4.9	Diesel	534	0.38
TCC-Central - 29	Cat 6 mgal w/ CAT 725 Tractor, 320hp	Crawler Tractor	692.9	134	5.2	Diesel	320	0.43
TCC-Central - 29	CAT 621G Scraper, Conventional	Scraper	465	134	3.5	Diesel	330	0.48
TCC-Central - 29	CAT 631G Scraper, Conventional	Scraper	1534.5	134	11.5	Diesel	515	0.48
TCC-Central - 29	CAT 815, Roller	Rollers	465	134	3.5	Diesel	170	0.38
TCC-Central - 29	CAT 966 GII Wheel Loader	Rubber Tired Loader	93	134	0.7	Diesel	170	0.36
TCC-Central - 29	CAT 966 Loader 5.5 CY	Rubber Tired Loader	198.9	134	1.5	Diesel	286	0.36
TCC-Central - 29	CAT D8Rii, Dozer w winch	Crawler Tractor	1999.5	134	14.9	Diesel	310	0.43
TCC-Central - 29	CAT D9R, Dozer w ripper	Crawler Tractor	1450.8	134	10.8	Diesel	410	0.43
TCC-Central - 29	CAT Hyd Excavator 1CY	Excavator	198.9	134	1.5	Diesel	138	0.38
TCC-Central - 29	Disk, Towed	Off-Highway Tractor	260.4	134	1.9	Diesel	140	0.44
TCC-Central - 29	Farm Tractor, All Wheel Drive, 285 HP	Off-Highway Tractor	753.3	134	5.6	Diesel	80	0.44
TCC-Central - 29	Hydro Mulcher, 18 HP	Pump	93	134	0.7	Diesel	25	0.29
TCC-Central - 29	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	1953	134	14.6	Diesel	345	0.38
TCC-Central - 29	Manitowoc 777 200 Ton Crane	Crane	198.9	134	1.5	Diesel	760	0.29
TCC-Central - 29	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	11.3	134	0.1	Diesel or Hybrid	75	0.31

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Twin Cities Complex - Central Tunnel Shaft
Options 7A, 7B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
TCC-Central - 1	400A, Electric Welder	465.9	611	0.25	0
TCC-Central - 2	Water Pump 4" Electric	27.9	29	1	1
TCC-Central - 2	Light Plant, 4 lite, 1000w	931	35		
TCC-Central - 10	Gantry Crane		81	0.25	0
TCC-Central - 23	400A, Electric Welder	22.6	105	0.25	0
TCC-Central - 23	Gantry Crane	1073.3	105	0.25	3
TCC-Central - 23	Axial Fan 114,000 CFM	1540	105	50	733
TCC-Central - 24	Gantry Crane	62075.5	1958	0.25	8
TCC-Central - 24	Axial Fan 114,000 CFM	337349.6	1958	50	8,615
TCC-Central - 25	Gantry Crane	2006.7	88	0.25	6
TCC-Central - 25	Axial Fan 114,000 CFM	1540	88	50	875
TCC-Central - 26	Gantry Crane	52961.1	1095	0.25	12
TCC-Central - 26	Axial Fan 114,000 CFM	185065.1	1095	50	8,450
TCC-Central - 27	Gantry Crane	644	55	0.25	3
TCC-Central - 28	Gantry Crane	830.7	49	0.25	4
TCC-Central - 29	400A, Electric Welder	22.6	134	0.25	0

Electricity for TBM Operations included in the Summary Workbook

Vehicle Inventory for Twin Cities Complex - Central Tunnel Shaft
Options 7A, 7B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. office)	# day	Vehicle Hours	Hours/Trip	# of Vehicles/Trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
TCC-Central - 1	Pickup, 1/2T, 2wd	Materials from Sacramento	611	32065.9	0.6	56587	92.6	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 1	Pickup, 3/4T, 4wd	Materials from Sacramento	611	77000.0	1.1	72188	118.1	South Delta Conveyance to/from Stockton	17	34	Hybrid Gasoline	
TCC-Central - 1	Truck Flatbed 4 T Highway	Materials from Sacramento	611	28000.2	0.6	49412	80.9	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 1	Truck, Flatbed, 10T, Hwy	Crane, Tractor and Aerial Lift from Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 1	Truck, Flatbed, 10T, Hwy	Excavator, Two Cranes, Aerial Lift from and to Sacramento	2	2.3	0.6	4	2.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 2	Pickup, 1/2T, 2wd	Materials from Sacramento	29	232.8	0.6	411	14.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 2	Truck, Flatbed, 10T, Hwy	Roller from Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 2	Truck, Flatbed, 10T, Hwy	Tractor to Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 2	Truck, Flatbed, 10T, Hwy	Grader from and to Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 3	Truck, Flatbed, 10T, Hwy	Loader from and to Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 5	Truck, Flatbed, 10T, Hwy	Dozer, Scraper, and Grader from Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 6	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	289	127.5	0.6	225	0.8	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 6	Truck Flatbed 4 T Highway	Rebar from Sacramento	289	7.9	0.6	14	0.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 6	Truck, Flatbed, 10T, Hwy	Roller from Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 6	Truck, Flatbed, 10T, Hwy	Roller, Grader, and Scraper to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 6	Truck, Flatbed, 10T, Hwy	Loader from and to Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 7	Highway Dump Truck 18 CY	Materials from Sacramento	149	96.3	0.6	170	1.1	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 7	Truck, Flatbed, 10T, Hwy	Grader from Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 7	Truck, Flatbed, 10T, Hwy	Two Cranes from and to Sacramento	2	2.3	0.6	4	2.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 8	Truck Flatbed 4 T Highway	Rebar from Sacramento	65	8.5	0.6	15	0.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 8	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	65	36.9	0.0	1107	17.0	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 8	Truck, Flatbed, 10T, Hwy	Dozer, Grader, and Roller to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 8	Truck, Flatbed, 10T, Hwy	Crane from and to Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 9	Truck, Flatbed, 10T, Hwy	Excavator and Loader from Sacramento	1	1.1	0.6	2	2.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 9	Truck Flatbed 4 T Highway	Rebar from Sacramento	18	0.6	0.6	1	0.1	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 9	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	18	1.1	0.0	34	1.9	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 9	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	18	100.3	0.6	177	9.8	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 10	Truck, Flatbed, 10T, Hwy	Excavator and Two Cranes from Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 10	Truck Flatbed 4 T Highway	Rebar from Sacramento	81	31.7	0.6	56	0.7	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 10	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	81	92.4	0.6	163	2.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 10	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	81	43.3	0.0	1298	16.0	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 12	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	93	44.4	0.0	1332	14.3	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 12	Truck Flatbed 4 T Highway	Rebar from Sacramento	93	32.3	0.6	57	0.6	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 12	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	93	92.4	0.6	163	1.8	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 12	Truck, Flatbed, 10T, Hwy	Two Excavators, Loader, and Crane from Sacramento	1	2.3	0.6	4	4.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 14	Truck Flatbed 4 T Highway	Materials from Sacramento	1495	0.6	0.6	1	0.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 15	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	21	124.7	0.6	220	10.5	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 15	Truck, Flatbed, 10T, Hwy	Five Cranes and Aerial Lift from Sacramento	1	3.4	0.6	6	6.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 17	Truck Flatbed 4 T Highway	Rebar from Sacramento	45	15.9	0.6	28	0.6	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 17	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	45	80.1	0.0	2402	53.4	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 18	Truck, Flatbed, 10T, Hwy	Crane from and to Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 19	Truck Flatbed 4 T Highway	Rebar from Sacramento	14	4.0	0.6	7	0.5	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 19	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	14	3.1	0.0	94	6.7	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 20	Truck Flatbed 4 T Highway	Rebar from Sacramento	41	6.2	0.6	11	0.3	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 20	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	41	6.4	0.0	192	4.7	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 21	Truck Flatbed 4 T Highway	Materials from Sacramento	93	212.5	0.6	375	4.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 21	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	93	26.2	0.0	846	9.1	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 21	Truck Flatbed 10 T Highway	Materials from Sacramento	93	17622.0	0.6	31451	338.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 23	Truck Flatbed 10 T Highway	Materials from Sacramento	105	2122.4	0.6	3745	35.7	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 23	Pickup, 1/2T, 2wd	Materials from Sacramento	105	1222.6	0.6	2158	20.5	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 23	Pickup, 3/4T, 4wd	Materials from Sacramento	105	1200.0	1.1	1125	0.0	South Delta Conveyance to/from Stockton	17	34	Hybrid Gasoline	
TCC-Central - 23	Concrete Transit Mix Truck 12cy	Pre-Cast Segment Grout from Lambert Batch Plant	105	12.0	0.0	360	3.4	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 24	Truck Flatbed 4 T Highway	Materials from Sacramento	1958	147.3	0.6	260	0.1	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 24	Truck Flatbed 4 T Highway	Materials from Sacramento	1958	254.4	0.6	449	0.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 24	Truck, Flatbed, 10T, Hwy	Pre-Cast Segment Grout from Lambert Batch Plant	1958	498.2	0.0	14046	7.6	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 24	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	1958	13895.5	0.6	24521	12.5	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 24	Utility Truck	Materials from Sacramento	1	35560.0	1.1	33338	33337.5	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 25	Truck, Flatbed, 10T, Hwy	Pre-Cast Segment Grout from Lambert Batch Plant	88	41.5	0.0	1245	14.1	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	

TCC Central - 26	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	1095	128563.7	0.6	226877	207.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC Central - 26	All Purpose and Utility Truck	Materials from Sacramento	1095	20062.4	1.1	18809	17.2	South Delta Conveyance to/from Stockton	17	34	Diesel	
TCC Central - 26	Truck, Flatbed, 10T, Hwy	Pre-Cast Segment GROUT from Lambert Batch Plant	1095	242.3	0.0	7270	6.6	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC Central - 26	Truck, Flatbed, 10T, Hwy	Dozer Tractor and Loader Grader to Sacramento	1	1.1	0.6	2	2.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC Central - 26	Truck, Flatbed, 10T, Hwy	Pre-Cast Segments from Sacramento	1095	6343.8	0.6	11195	10.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC Central - 27	All Purpose and Utility Truck	Materials from Sacramento	55	1008.0	1.1	0	0	South Delta Conveyance to/from Stockton	17	34	Diesel	
TCC Central - 27	Truck, Flatbed, 10T, Hwy	Three Cranes to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC Central - 28	All Purpose and Utility Truck	Materials from Sacramento	49	1381.4	1.1	1295	26.4	South Delta Conveyance to/from Stockton	17	34	Diesel	
TCC Central - 28	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	49	76.5	0.6	135	2.8	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC Central - 28	Truck, Flatbed, 10T, Hwy	Two Aerial Lifts and Crane to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC Central - 29	Truck, Flatbed, 10T, Hwy	Scraper, Four Tractors, Grader, Roller, Scraper, Loader, and Excavator to/from Sacramento	2	5.7	0.6	10	5.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC Central - 29	Truck, Flatbed, 10T, Hwy	Cranes, Two Excavators, to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC Central - 29	Truck Flatbed 4 T Highway	Materials from Sacramento	134	94.6	0.6	167	1.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
Vehicle Use on Unsewered/Dirty Surface (no access roads at park and ride lots) — on the Construction Site												
TCC Central - 1	Articulated Rear Dump 22 CY/CAT 730	Dumper to move fill on-site	611	1093.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	Miles On-Site		9466	Diesel or Hybrid
TCC Central - 2	Cat 30mpg w/Cat 770, 511HP	Dumpers	29	116.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	582		Diesel	
TCC Central - 3	Truck, End Dump, 10-13cy, Hwy	Dumpers	34	174.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	873		Diesel	
TCC Central - 7	Truck, End Dump, 10-13cy, Hwy	Dumpers	149	1610.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	8052		Diesel	
TCC Central - 7	Truck, End Dump, 10-13cy, Hwy	Dumpers for Filled from Twin Cities Complex Borrow	149	4918.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	24590		Diesel	
TCC Central - 10	CAT 730 Rear Dump	Dumper	81	554	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2770		Diesel or Hybrid	
TCC Central - 10	Articulated Rear Dump 22 CY/CAT 730	Dumper to move fill on-site	81	485.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2430		Diesel or Hybrid	
TCC Central - 11	CAT 730 Rear Dump	Dumper	15	148	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	742		Diesel or Hybrid	
TCC Central - 12	CAT 730 Rear Dump	Dumper	93	533.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2770		Diesel or Hybrid	
TCC Central - 12	Articulated Rear Dump 22 CY/CAT 730	Dumper	93	485.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2430		Diesel or Hybrid	
TCC Central - 29	CAT 725 Tractor, 320hp	Dumper	134	692.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3465		Diesel	
TCC Central - 29	Truck, End Dump, 10-13cy, Hwy	Dumper	134	8165.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	40827		Diesel	
TCC Central - 29	CAT 740-40T, Articulated End dump	Dumper	134	651.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0		Diesel or Hybrid	

**Employees Required to Twin Cities Complex - Central Tunnel Shaft
Options 7A, 7B**

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
TCC-Central - 1	Carpenter Apprentice	465.9	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Carpenter Foreman	465.9	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Carpenter Journeyman	931.9	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Electrical Foreman	233.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Electrician Journeyman	931.9	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Iron Worker Journeyman Rebar/Struct	931.9	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Laborer G2 General	931.9	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	OPERATING ENGINEER FOREMAN	91.1	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Operator G2 Excavator 3.5 to 7.0 cy	182.2	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Operator G3a Cranes 45 t and under	11666.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Operator G4 Dozer & Push Cat	364.4	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Teamster G1 Hwy ED<6cy, Flatbed	28000.2	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Teamster G3 Boom Truck	233.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Teamster G3 ED 8-24cy, Water>7mgal	1093.3	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-1		46522.6				
TCC-Central - 2	Laborer G2 General	27.9	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 2	Operator G5 Compactor w-blade	232.8	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 2	Operator G4 Dozer & Push Cat	232.8	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 2	OPERATING ENGINEER FOREMAN	232.8	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 2	Operator G2 Finish Blade	116.4	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 2	Teamster G3 ED 8-24cy, Water>7mgal	116.4	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-2		959.1				
TCC-Central - 3	Laborer G1 Pipe layers	349.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 3	Laborer G1 Power Tamper	174.6	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 3	Operator G3 BH-Loader>3/4cy	87.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 3	Teamster G2 Hwy ED 6-8cy, Water<7mgal	174.6	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-3		785.8				
TCC-Central - 4	Accountant	17856.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Concrete Superintendent	17856.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Cost Engineer	17856.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Electrical Superintendent	17219.1	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Environmental Manager	17219.1	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Equipment Superintendent	17219.1	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Field Engineer	13392.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	General Superintendent	17856.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Geotechnical Manager	17219.1	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Office Administrator	17856.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Office Manager	17856.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Project Engineer	17856.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Project Manager	17856.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	QC Manager	17856.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	QC Technician	8928.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Runner	17856.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Safety Engineer	34435.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Safety Manager	17856.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Schedule Engineer	8928.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Shift Engineers	34435.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Survey Party Chief	17856.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Survey Rod Man	17856.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Tunnel Superintendent	17219.1	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Tunnel Walkers	34435.3	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-4		452777.6				
TCC-Central - 5	General Foreman	495.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 5	Dozer Operator	990.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 5	Grader Operator	990.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 5	Operator G4 Grade Check	495.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 5	Scraper Operator	1980.0	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-5		4950.0				
TCC-Central - 6	Bulldozer Foreman	372.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Bulldozer Laborer	744.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Carpenter	283.5	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Carpenter Foreman	70.9	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Compactor Operator	446.4	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Dozer Operator	4308.7	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Flagger	446.4	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Flat Truck Driver	372.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	General Foreman	2265.9	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	General Laborer	938.8	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Grade Setter / Checker	223.2	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Grader Operator	4308.7	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Hyd Crane Operator	1165.5	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Iron Worker	3506.1	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Iron Worker Foreman	350.6	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Loader Operator	223.2	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Mechanic/Welder	372.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Operator G4 Grade Check	2042.7	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Scraper Operator	8170.9	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-6		30611.5				
TCC-Central - 7	Grade Setter / Checker	1610.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 7	Compactor Operator	1610.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 7	Dozer Operator	1610.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 7	Grader Operator	1610.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 7	Truck Driver	1610.3	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-7		8051.5				

TCC-Central - 8	Carpenter	1041.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 8	Carpenter Foreman	130.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 8	General Laborer	260.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 8	Truck Driver	520.8	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-8		1953.0			
TCC-Central - 9	Carpenter	654.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	Carpenter Foreman	163.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	Excavator Operator	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	General Laborer	15.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	Lead Miner	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	Loader Operator	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	Miner	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	Shifter	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	Truck Driver	146.3	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-9		1025.5			
TCC-Central - 10	Carpenter	81.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Carpenter Foreman	13.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Crane Oiler	971.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Excavator Operator	363.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	General Foreman	1335.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	General Laborer	6493.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Hyd Crane Operator	971.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Iron Worker	4929.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Iron Worker Foreman	989.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Lead Miner	485.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Loader Operator	849.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Mechanic Welder	971.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Miner	3887.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Shaft Crane Operator	971.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Shifter	1457.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Truck Driver	553.9	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-10		25326.8			
TCC-Central - 11	Carpenter	516.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 11	Carpenter Foreman	129.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 11	Excavator Operator	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 11	Lead Miner	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 11	Loader Operator	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 11	Miner	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 11	Shifter	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 11	Truck Driver	146.3	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-11		837.9			
TCC-Central - 12	Carpenter	219.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Carpenter Foreman	61.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Crane Oiler	971.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Excavator Operator	363.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	General Foreman	1335.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	General Laborer	6509.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Hyd Crane Operator	971.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Iron Worker	4929.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Iron Worker Foreman	989.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Lead Miner	485.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Loader Operator	849.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Mechanic / Welder	971.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Miner	3887.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Shaft Crane Operator	971.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Shifter	1457.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Truck Driver	553.9	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-12		25528.1			
TCC-Central - 13	Shaft Crane Operator	658.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 13	Toplander	658.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 13	Crane Oiler	658.1	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-13		1974.3			
TCC-Central - 14	Accountant	11755.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Concrete Superintendent	11755.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Cost Engineer	11755.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Electrical Superintendent	11335.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Environmental Manager	11335.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Equipment Superintendent	11335.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Field Engineer	8816.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	General Superintendent	11755.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Geotechnical Manager	11335.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Office Administrator	11755.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Office Manager	11755.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Project Engineer	11755.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Project Manager	11755.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	QC Manager	11755.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	QC Technician	5877.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Runner	11755.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Safety Engineer	22671.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Safety Manager	11755.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Schedule Engineer	5877.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Shift Engineers	22671.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Survey Party Chief	11755.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Survey Rod Man	11755.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Tunnel Superintendent	11335.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Tunnel Walkers	22671.2	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-14		298080.6			
TCC-Central - 15	Bulfgang Foreman	549.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Bulfgang Laborer	1696.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Crane Oiler	149.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Electrician	149.3	10	Sacramento to/from Twin Cities Complex	17

TCC-Central - 15	Flat Truck Driver	400.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Heavy Duty Mechanic Welder	149.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Hyd Crane Operator	949.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Master Mechanic	448.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Mechanic / Welder	549.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Shaft Crane Operator	149.3	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-15		5189.1			
TCC-Central - 16	Shaft Crane Operator	658.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 16	Toplander	658.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 16	Crane Oiler	658.1	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-16		1974.3			
TCC-Central - 17	Bottomlander	445.7	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Crane Oiler	67.9	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Hyd Crane Operator	533.1	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Iron Worker	5333.6	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Iron Worker Foreman	666.7	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Lead Miner	95.0	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Miner	2093.4	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Shaft Crane Operator	513.7	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Shifter	761.7	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Toplander	11258.0	24	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-17		21768.8			
TCC-Central - 18	Hyd Crane Operator	191.3	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 18	Lead Miner	191.3	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 18	Miner	1530.4	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 18	Shifter	191.3	24	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-18		54928.9			
TCC-Central - 19	Crane Oiler	108.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Electrician	40.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Iron Worker	543.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Iron Worker Foreman	67.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Lead Miner	40.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Miner	461.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Mechanic Welder	40.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Shaft Crane Operator	108.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Shifter	108.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Toplander	108.7	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-19		1629.9			
TCC-Central - 20	Bottomlander	520.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 20	Crane Oiler	520.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 20	Iron Worker	4166.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 20	Iron Worker Foreman	520.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 20	Shaft Crane Operator	520.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 20	Toplander	520.8	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-20		6770.1			
TCC-Central - 21	Bottomlander	796.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Concrete Pump Operator	422.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Crane Oiler	1264.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Electrician	417.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Lead Miner	1150.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Master Mechanic	114.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Mechanic Welder	728.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Miner	6188.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Shaft Crane Operator	1264.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Shifter	1150.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Toplander	1264.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Truck Driver	17822.0	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-21		32583.4			
TCC-Central - 22	Bulgang Foreman	149.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 22	Bulgang Laborer	896.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 22	Mechanic / Welder	149.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 22	Master Mechanic	448.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 22	Shaft Crane Operator	149.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 22	Crane Oiler	149.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 22	Electrician	149.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 22	Hyd Crane Operator	149.3	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-22		2239.8			
TCC-Central - 23	Bottomlander	1073.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Bulgang Foreman	2122.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Bulgang Laborer	4244.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Carpenter Apprentice	22.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Carpenter Foreman	22.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Carpenter Journeyman	45.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Conveyor Belt Man	933.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Crane Oiler	1073.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Electrical Foreman	11.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Electrician	3406.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Electrician Journeyman	45.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Flat Truck Driver	2122.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Hyd Crane Operator	5084.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Iron Worker Journeyman Rebar/Struct	45.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Laborer G2 General	45.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Lead Miner	2380.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Mechanic / Welder	5529.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Miner	15960.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Operator G3a Cranes 45 t and under	22.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Segment Carrier Operator	2240.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Shaft Crane Operator	1073.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Shifter	2380.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	ST2G Mucker Operator	373.3	10	Sacramento to/from Twin Cities Complex	17

TCC-Central - 23	TBM Operator	2613.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Teamster G3 Boom Truck	11.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Toplander	1073.3	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-23		53954.5			
TCC-Central - 24	Bottomlander	62075.5	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Bulgang Foreman	49455.5	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Bulgang Laborer	170030.9	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Conveyor Belt Man	4006.4	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Crane Oiler	62075.0	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Dozer Operator	34365.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Electrician	74732.9	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Fanline Carrier Operator	34740.5	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Flat Truck Driver	13895.5	20		
TCC-Central - 24	Hyd Crane Operator	27790.9	20		
TCC-Central - 24	Lead Miner	40006.4	20		
TCC-Central - 24	Loader Operator	34365.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Man Transport Truck Operator	35560.0	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Master Mechanic	17363.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Mechanic / Welder	105991.6	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Miner	301958.5	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Operating Engineer	24365.0	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Operator G2 Plant Operator	34365.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Segment Carrier Operator	271196.8	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Shaft Crane Operator	62075.5	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Shifter	40006.4	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	TBM Operator	80012.8	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Toplander	62075.5	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Utility Truck Operator	35560.0	20	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-24		1678070.8			
TCC-Central - 25	Bottomlander	1073.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Conveyor Belt Man	933.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Crane Oiler	1073.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Electrician	3406.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Hyd Crane Operator	840.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Lead Miner	2380.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Mechanic / Welder	3406.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Miner	15960.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Segment Carrier Operator	2240.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Shaft Crane Operator	1073.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Shifter	2380.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	ST2G Mucker Operator	373.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	TBM Operator	2613.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Toplander	1073.3	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-25		38826.2			
TCC-Central - 26	Bottomlander	34966.4	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Bulgang Foreman	29898.5	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Bulgang Laborer	99921.8	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Conveyor Belt Man	19984.5	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Crane Oiler	34966.4	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Dozer Operator	19301.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Fanline Carrier Operator	19607.5	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Flat Truck Driver	9836.2	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Hyd Crane Operator	19672.4	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Lead Miner	19984.5	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Loader Operator	19301.5	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Master Mechanic	9837.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Mechanic / Welder	59332.7	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Miner	154724.3	20		
TCC-Central - 26	Operating Engineer	19301.3	20		
TCC-Central - 26	Operator G2 Plant Operator	19301.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Segment Carrier Operator	150408.5	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Shaft Crane Operator	34966.4	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Shifter	19984.5	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	TBM Operator	39969.1	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Toplander	34966.4	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Utility Truck Operator	20062.4	20	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-26		890295.2			
TCC-Central - 27	Bottomlander	1311.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Bulgang Foreman	93.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Bulgang Laborer	560.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Crane Oiler	760.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Electrician	2072.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Heavy Duty Mechanic Welder	93.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Forklift Operator	644.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Hyd Crane Operator	760.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Lead Miner	1311.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Master Mechanic	280.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Mechanic / Welder	2072.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Miner	6253.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Shaft Crane Operator	1404.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Shifter	1311.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Toplander	1563.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Utility Truck Operator	504.0	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-27		20995.2			
TCC-Central - 28	Bottomlander	2498.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Bulgang Foreman	269.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Bulgang Laborer	713.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Crane Oiler	760.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Electrician	2258.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Flat Truck Driver	76.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Forklift Operator	830.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Heavy Duty Mechanic Welder	93.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Hyd Crane Operator	913.7	10	Sacramento to/from Twin Cities Complex	17

TCC-Central - 28	Lead Miner	1498.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Master Mechanic	280.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Mechanic / Welder	2335.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Miner	7373.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Shaft Crane Operator	1591.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Shifter	1498.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Toplander	1591.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Utility Truck Operator	690.7	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-28		25272.3			
TCC-Central - 29	Bottomlander	198.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Carpenter Apprentice	22.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Carpenter Foreman	22.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Carpenter Journeyman	45.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Crane Oiler	198.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Electrical Foreman	11.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Electrician Journeyman	45.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Excavator Operator	168.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Iron Worker Journeyman Rebar/Struct	45.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Laborer G2 Concrete Laborer	976.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Laborer G2 General	296.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Laborer G3 Dumpman	279.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Laborer G3 Flagman	706.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Loader Operator	198.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	OPERATING ENGINEER FOREMAN	962.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G2 Excavator 3.5 to 7.0 cy	2278.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G2 Finish Blade	2743.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G3 Loader >4cy	744.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G3a Cranes 45 t and under	22.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G4 Dozer & Push Cat	3450.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G4 Scraper	199.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G5 Compactor w-blade	465.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G6 Tractor	753.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Shaft Crane Operator	198.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Teamster G2 Hwy ED 6-8cy, Water<7mgal	8858.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Teamster G3 Boom Truck	11.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Teamster G4 ED 25-65 Cy	651.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Toplander	198.9	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-29		24754.0			

Marine Inventory for Twin Cities Complex - Central Tunnel Shaft
Options 7A, 7B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Twin Cities Complex - Central Tunnel Shaft
Options 7A, 7B

Code	# day	Locomotive Type	From Depot Site	Delivery Depot	Rail Cars	Rail Cars/Day	Main Railroad	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
TCC-Central - 23	105	Pre Cast Segment	Sacramento	Twin Cities Complex Sidetrack	312	2.97	UPRR						
TCC-Central - 24	1958	Pre Cast Segment	Sacramento	Twin Cities Complex Sidetrack	6177	3.15	UPRR						
TCC-Central - 25	88	Pre Cast Segment	Sacramento	Twin Cities Complex Sidetrack	167	1.90	UPRR						
TCC-Central - 26	1095	Pre Cast Segment	Sacramento	Twin Cities Complex Sidetrack	3363	3.07	UPRR						

Rail Activity for RTM to Southern Complex presented in Southern Complex workbooks

**Helicopter Inventory for Twin Cities Complex - Central Tunnel Shaft
Options 7A, 7B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Twin Cities Complex - Central Tunnel Shaft
Options 7A, 7B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy) (not Concrete)	Fill (cy/day) (not Concrete)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
TCC-Central - 1	507	611	0.8								
TCC-Central - 5		44		249472	5670						
TCC-Central - 6		289		1029535	3562						
TCC-Central - 7		149				70863.8	476				
TCC-Central - 9		18		607.4	34						
TCC-Central - 10		81		12155.5	150						
TCC-Central - 11		15		607.4	40						
TCC-Central - 12		93		12155.5	131						
TCC-Central - 13		65		72384.8	1114						
TCC-Central - 16		65		72384.8	1114						
TCC-Central - 29	367.4	134	2.7								

**Demolition Assumptions for Twin Cities Complex - Central Tunnel Shaft
Options 7A, 7B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for New Hope Central Access Road
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Road Base on Access Road	NH_Central Access-1	2/22/2027	2/25/2027	4	4	10
12 Month Maintenance: First Overlay Walnut Grove Blvd from Blossom to Lauffer	NH_Central Access-2	4/10/2028	4/13/2028	4	4	10
12 Month Maintenance: Second Overlay Walnut Grove Blvd from Blossom to Lauffer	NH_Central Access-3	4/10/2029	4/13/2029	4	4	10
Acres - Overlay						5.23
Acres - New Gravel Road						1.1

Construction Schedule for New Hope - Central Tunnel Shaft						
Options 7A, 7B						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Clear and Grub	NH-Central - 1	4/4/2028	4/5/2028	2	5	10
Ground Improvement	NH-Central - 2	4/27/2028	6/14/2028	35	5	10
Raise Shaft Pad	NH-Central - 3	6/15/2028	10/18/2028	90	5	10
Excavate, Set Strips, & Place Guide Wall	NH-Central - 4	10/19/2028	11/3/2028	12	5	10
Place Guide Walls Concrete	NH-Central - 5	11/7/2028	11/7/2028	1	1	10
Excavate Slurry Wall & Place Concrete & Rebar	NH-Central - 6	11/8/2028	12/15/2028	38	7	24
Slurry Wall including Strip Forms and Place Rebar & Top Beam	NH-Central - 7	12/18/2028	1/29/2029	43	7	24
Excavate Shaft	NH-Central - 8	1/30/2029	3/13/2029	43	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	NH-Central - 9	3/14/2029	3/27/2029	13	7	24
Dewater Shaft	NH-Central - 10	3/28/2029	4/3/2029	7	7	24
Place TBM Cradle Rebar and Cradle Pour	NH-Central - 11	4/4/2029	4/11/2029	6	5	10
Breakout Slurry Wall for TBM	NH-Central - 12	4/12/2029	5/8/2029	19	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	NH-Central - 13	4/12/2029	6/28/2029	56	5	10
Place Shaft Cover	NH-Central - 14	6/28/2029	8/7/2029	29	5	10
Total Site Acres	11.1					

Offroad Equipment (Fossil Fuel) Inventory for New Hope - Central Tunnel Shaft
Options 7A, 7B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
NH-Central - 1	CAT D8 Dozer	Crawler Tractor	14.24	2	7	Diesel Tier 4 or Hybrid Diesel	179	0.43		
NH-Central - 1	CAT Grader 16H - 16' Blade	Grader	14.24	2	7	Diesel	285	0.41		
NH-Central - 1	623G Scraper Elevate 21 CY	Scaper	28.48	2	14	Diesel	359	0.48		
NH-Central - 2	Air Compressor 375 CFM	Air Compressor	225	35	7	Diesel Tier 4	122	0.48		
NH-Central - 2	Grove RT Crane 30T	Crane	225	35	7	Diesel	160	0.29		
NH-Central - 2	DMM Deep Soil Mixer	Bore Drill Rig	225	35	7	Diesel	808	0.5		
NH-Central - 2	DMM Grout Mix Plant	Other Industrial Equipmen	225	35	7	Diesel	500	0.34		
NH-Central - 2	Case 590 SupN Loader	Rubber Tired Loaders	225	35	7	Diesel	110	0.36		
NH-Central - 3	CAT CB-634D Vibratory 84"	Rollers	90	90	1	Diesel	145	0.38		
NH-Central - 3	CAT Grader 16H	Graders	90	90	1	Diesel	285	0.41		
NH-Central - 3	CAT D8 Dozer	Crawler Tractor	90	90	1	Diesel	328	0.43		
NH-Central - 4	CAT Hyd Excavator 1CY	Excavator	5.4	12	0	Diesel	138	0.38		
NH-Central - 4	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	5.4	12	0	Diesel or Hybrid	130	0.36		
NH-Central - 6	1600 CFM Compressor Diesel	Air Compressor	235.8	38	6	Diesel Tier 4	540	0.48		
NH-Central - 6	Hydraulic 55 Ton Crane	Crane	471.6	38	12	Diesel	350	0.29		
NH-Central - 6	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	268.6	38	7	Diesel or Hybrid	130	0.36		
NH-Central - 6	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	235.8	38	6	Diesel	8	0.56		
NH-Central - 6	Slurry Wall Techniwell	Pumps	235.8	38	6	Diesel	500	0.74		
NH-Central - 6	Manitowoc 777 200 Ton Crane	Crane	471.6	38	12	Diesel	760	0.29		
NH-Central - 7	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	212	43	5	Diesel or Hybrid	130	0.36		
NH-Central - 7	250 CFM Compressor Diesel	Air Compressor	3.6	43	0.1	Diesel Tier 3	75	0.48		
NH-Central - 7	CAT Hyd Excavator 1CY	Excavator	212	43	5	Diesel	138	0.38		
NH-Central - 7	Hydraulic Excavator to 3.5 tons = Kobelco SK485LC' 2.75cy' 345 hp Excavator	Excavator	212	43	4.9	Diesel	345	0.38		
NH-Central - 8	Manitowoc 777 200 Ton Crane	Crane	207.9	43	5	Diesel	760	0.29		
NH-Central - 9	Manitowoc 777 200 Ton Crane	Crane	99.9	13	8	Diesel	760	0.29		
NH-Central - 9	Hydraulic 40 Ton Crane	Crane	32.4	13	2	Diesel	300	0.29		
NH-Central - 9	Hydraulic 25 Ton Crane	Crane	68.6	13	5	Diesel	100	0.29		
NH-Central - 10	Hydraulic 15 Ton Crane	Crane	90	7	13	Diesel	100	0.29		
NH-Central - 11	Manitowoc 777 200 Ton Crane	Crane	31.7	6	5	Diesel	760	0.29		
NH-Central - 11	250 CFM Compressor Diesel	Air Compressor	7.4	6	1	Diesel Tier 3	75	0.48		
NH-Central - 12	250 CFM Compressor Diesel	Air Compressor	106.8	19	6	Diesel Tier 3	75	0.48		
NH-Central - 12	Manitowoc 777 200 Ton Crane	Crane	106.8	19	6	Diesel	760	0.29		
NH-Central - 13	Hydraulic 9 Ton Crane	Crane	238.4	56	4	Diesel	85	0.29		
NH-Central - 13	250 CFM Compressor Diesel	Air Compressor	467.7	56	8	Diesel Tier 3	75	0.48		
NH-Central - 13	Manitowoc 777 200 Ton Crane	Crane	45	56	1	Diesel	760	0.29		
NH-Central - 14	Hydraulic 9 Ton Crane	Crane	36	29	1	Diesel	85	0.29		
NH-Central - 14	Hydraulic 40 Ton Crane	Crane	36	29	1	Diesel	300	0.29		
NH-Central - 14	CAT Forklift 5,500 LB	Aerial Lift	36	29	1	Diesel	63	0.31		
NH-Central - 14	250 CFM Compressor Diesel	Air Compressor	162.3	29	6	Diesel Tier 3	75	0.48		
NH-Central - 14	Manitowoc 777 200 Ton Crane Manitowoc	Crane	46.8	29	2	Diesel	760	0.29		
NH-Central - 14	999-275 Ton Crane	Crane	115.5	29	4.0	Diesel	900	0.29		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

**Offroad Equipment (Electric) Inventory for New Hope - Central Tunnel Shaft
Options 7A, 7B**

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
NH-Central - 2	Water Pump 4" Electric	552.6	35	50	#REF!
NH-Central - 13	Axial Fan 114,000 CFM	54	56	50	48
NH-Central - 13	Electric Welder 400 AMP	184.3	56	15	49
NH-Central-2	90 kW Generator	552.6	35		
NH-Central-6	Slurry Wall Techniwell	235.8	38		
NH-Central-10	Dewater Pump 6"	360	7		
NH-Central-10	150 kW Generator	90	7		
NH-Central-11	Conc Pump 100 cy/hr	7.4	6		
NH-Central-13	Conc Pump 100 cy/hr	184.4	56		
NH-Central-14	Conc Pump 100 cy/hr	104.7	29		

Vehicle Inventory for New Hope - Central Tunnel Shaft
Options 7A, 7B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
NH-Central - 1	Truck Flatbed 4 T Highway	Materials from Sacramento	2	50.0	0.6	79	40	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 1	Truck, Flatbed, 10T, Hwy	Grader and Scraper to and from Sacramento	2	2.5	0.6	4	2.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 1	Truck, Flatbed, 10T, Hwy	Crawler Tractor from Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 2	Pickup 1/2T 2 WD	Materials from Sacramento	35	552.6	0.6	873	25	New Hope Shaft to/from Sacramento	19	38	Hybrid Gasoline	
NH-Central - 2	Truck Flatbed 4 T Highway	Materials from Sacramento	35	552.6	0.6	873	25	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 2	Mechanic Truck	Materials from Sacramento	35	552.6	0.6	873	25	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 2	Concrete Transit Mix Truck' 12cy	Concrete for Ground Improvement from Sacramento	35	74.1	0.5	139	4	New Hope Shaft to/from Sacramento	16	32	Diesel	
NH-Central - 2	Truck, Flatbed, 10T, Hwy	Crane, Trencher, & Other Equipment to and from Sacramento	2	3.8	0.6	6	3.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 3	Highway Dump Truck 18 CY	Materials from Sacramento	90	975.4	0.6	1540	17	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 3	Truck End Dump' 16-20cy' Hwy	Sol Material in Covered Trucks from Twin Cities Complex	90	1431.5	0.5	2863	32	New Hope Shaft to/from Twin Cities Complex	15	30	Diesel	
NH-Central - 3	Truck, Flatbed, 10T, Hwy	Grader and Roller to and from Sacramento	2	2.5	0.6	4	2.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 3	Truck, Flatbed, 10T, Hwy	Crawler Tractor to Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 4	Truck, Flatbed, 10T, Hwy	Excavator to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 4	Truck, Flatbed, 10T, Hwy	Loader from Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 5	Truck Flatbed 4 T Highway	Rebar from Sacramento	1	0.6	0.6	1	1	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 5	Concrete Transit Mix Truck' 12cy	Concrete from Lambert CBP	35	10.5	0.5	21	1	New Hope Shaft to/from Lambert CBP	15	30	Diesel	
NH-Central - 6	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	38	111.5	0.6	176	5	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 6	Truck Flatbed 4 T Highway	Rebar from Sacramento	38	15.2	0.6	24	1	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 6	Concrete Transit Mix Truck' 12cy	Concrete from Lambert CBP	38	273.0	0.5	546	14	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Central - 6	Truck, Flatbed, 10T, Hwy	Crane and Other Equipment to and from Sacramento	2	2.5	0.6	4	2.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 6	Truck, Flatbed, 10T, Hwy	Crane from Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 7	Truck Flatbed 4 T Highway	Rebar from Sacramento	43	0.6	0.6	1	0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 7	Concrete Transit Mix Truck' 12cy	Concrete from Lambert CBP	43	5.0	0.5	10	0	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Central - 7	Truck, Flatbed, 10T, Hwy	Loader to Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 9	Truck Flatbed 4 T Highway	Rebar from Sacramento	13	4.4	0.6	7	1	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 9	Concrete Transit Mix Truck' 12cy	Concrete from Lambert CBP	13	218.0	0.5	436	34	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Central - 9	Truck, Flatbed, 10T, Hwy	Cranes to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 10	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 11	Truck Flatbed 4 T Highway	Rebar from Sacramento	6	0.6	0.6	1	0.2	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 11	Concrete Transit Mix Truck' 12cy	Concrete from Lambert CBP	6	16.0	0.5	32	5	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Central - 12	Truck Flatbed 4 T Highway	Rebar from Sacramento	19	1.3	0.6	2	0.1	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 12	Concrete Transit Mix Truck' 12cy	Concrete from Lambert CBP	19	101.5	0.5	203	11	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Central - 13	Concrete Transit Mix Truck' 12cy	Concrete from Lambert CBP	56	63.0	0.5	126	2	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Central - 13	Truck, Flatbed, 10T, Hwy	Crane to Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 13	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 14	Highway Flatbed 10 Ton	Materials from Sacramento	29	36.0	0.6	57	2	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Central - 14	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site												
NH-Central - 4	CAT 730 Rear Dump	Dumper	12	16.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		83	Diesel or Hybrid	
NH-Central - 6	CAT 730 Rear Dump	Dumper	38	268.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1344	Diesel or Hybrid	
NH-Central - 6	Articulated Rear Dump 22 CY/CAT 730	Dumper	38	235.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1179	Diesel or Hybrid	
NH-Central - 6	Concrete Pump Truck	Off-Highway Truck	38	471.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2358	Diesel	

Employees Required to New Hope - Central Tunnel Shaft
Options 7A, 7B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
NH-Central - 1	General Foreman	7.12	10		Sacramento to/from New Hope Shaft	19
NH-Central - 1	Dozer Operator	14.24	10		Sacramento to/from New Hope Shaft	19
NH-Central - 1	Grader Operator	14.24	10		Sacramento to/from New Hope Shaft	19
NH-Central - 1	Operator G4 Grade Check	7.12	10		Sacramento to/from New Hope Shaft	19
NH-Central - 1	Scraper Operator	28.48	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-1		71.2				
NH-Central - 2	Laborer G2 General	1657.8	10		Sacramento to/from New Hope Shaft	19
NH-Central - 2	Operating Engineer	552.6	10		Sacramento to/from New Hope Shaft	19
NH-Central - 2	Operator G2 Plant Operator	1105.2	10		Sacramento to/from New Hope Shaft	19
NH-Central - 2	Operator G3 BH Loader	552.6	10		Sacramento to/from New Hope Shaft	19
NH-Central - 2	Operator G3a Crane	552.6	10		Sacramento to/from New Hope Shaft	19
NH-Central - 2	Operator G4 Grade Check	552.6	10		Sacramento to/from New Hope Shaft	19
NH-Central - 2	Operator G4 Heavy Duty Mechanic	552.6	10		Sacramento to/from New Hope Shaft	19
NH-Central - 2	Teamster G1 Hwy	552.6	10		Sacramento to/from New Hope Shaft	19
NH-Central - 2	Teamster G2 Hwy	552.6	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-2		6631.4214				
NH-Central - 3	Compactor Operator	975.4	10		Sacramento to/from New Hope Shaft	19
NH-Central - 3	Dozer Operator	975.4	10		Sacramento to/from New Hope Shaft	19
NH-Central - 3	Grade Setter / Checker	975.4	10		Sacramento to/from New Hope Shaft	19
NH-Central - 3	Grader Operator	975.4	10		Sacramento to/from New Hope Shaft	19
NH-Central - 3	Truck Driver	975.4	10		Sacramento to/from New Hope Shaft	19
NH-Central - 3	Water Truck Highway	975.4	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-3		5852.4				
NH-Central - 4	Carpenter	318.1	10		Sacramento to/from New Hope Shaft	19
NH-Central - 4	Carpenter Foreman	79.5	10		Sacramento to/from New Hope Shaft	19
NH-Central - 4	Excavator Operator	5.4	10		Sacramento to/from New Hope Shaft	19
NH-Central - 4	Lead Miner	5.4	10		Sacramento to/from New Hope Shaft	19
NH-Central - 4	Loader Operator	5.4	10		Sacramento to/from New Hope Shaft	19
NH-Central - 4	Miner	5.4	10		Sacramento to/from New Hope Shaft	19
NH-Central - 4	Shifter	5.4	10		Sacramento to/from New Hope Shaft	19
NH-Central - 4	Truck Driver	16.1	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-4		440.7				
NH-Central - 5	General Laborer	9.8	10		Sacramento to/from New Hope Shaft	19
NH-Central - 5	Carpenter	85.5	10		Sacramento to/from New Hope Shaft	19
NH-Central - 5	Carpenter Foreman	21.4	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-5		116.7				
NH-Central - 6	Crane Oiler	471.6	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	General Foreman	471.6	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	General Laborer	3593.8	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	Hyd Crane Operator	471.6	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	Iron Worker	2358	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	Iron Worker Foreman	471.6	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	Lead Miner	235.8	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	Loader Operator	235.8	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	Mechanic Welder	471.6	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	Miner	1886.4	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	Shaft Crane Operator	471.6	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	Shifter	707.4	24		Sacramento to/from New Hope Shaft	19
NH-Central - 6	Truck Driver	268.8	24		Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-6		12115.6				
NH-Central - 7	Carpenter	33.1	24		Sacramento to/from New Hope Shaft	19
NH-Central - 7	Carpenter Foreman	8.3	24		Sacramento to/from New Hope Shaft	19
NH-Central - 7	Excavator Operator	212	24		Sacramento to/from New Hope Shaft	19
NH-Central - 7	General Foreman	212	24		Sacramento to/from New Hope Shaft	19
NH-Central - 7	General Laborer	662.3	24		Sacramento to/from New Hope Shaft	19
NH-Central - 7	Iron Worker	39.6	24		Sacramento to/from New Hope Shaft	19
NH-Central - 7	Iron Worker Foreman	9.9	24		Sacramento to/from New Hope Shaft	19
NH-Central - 7	Loader Operator	212	24		Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-7		1389.2				
NH-Central - 8	Shaft Crane Operator	207.9	24		Sacramento to/from New Hope Shaft	19
NH-Central - 8	Toplander	207.9	24		Sacramento to/from New Hope Shaft	19
NH-Central - 8	Crane Oiler	207.9	24		Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-8		623.7				
NH-Central - 9	Bottomlander	99.9	24		Sacramento to/from New Hope Shaft	19
NH-Central - 9	Hyd Crane Operator	101.2	24		Sacramento to/from New Hope Shaft	19

NH-Central - 9	Iron Worker	1058.4	24	Sacramento to/from New Hope Shaft	19
NH-Central - 9	Iron Worker Foreman	132.3	24	Sacramento to/from New Hope Shaft	19
NH-Central - 9	Lead Miner	17.2	24	Sacramento to/from New Hope Shaft	19
NH-Central - 9	Miner	402.3	24	Sacramento to/from New Hope Shaft	19
NH-Central - 9	Shaft Crane Operator	99.9	24	Sacramento to/from New Hope Shaft	19
NH-Central - 9	Shifter	149.5	24	Sacramento to/from New Hope Shaft	19
NH-Central - 9	Toplander	229.5	24	Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-9		2290.2			
NH-Central - 10	Shifter	90	24	Sacramento to/from New Hope Shaft	19
NH-Central - 10	Lead Miner	90	24	Sacramento to/from New Hope Shaft	19
NH-Central - 10	Miner	720	24	Sacramento to/from New Hope Shaft	19
NH-Central - 10	Hyd Crane Operator	90	24	Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-10		990.0			
NH-Central - 11	Crane Oiler	31.7	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Electrician	7.4	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Iron Worker	194.4	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Iron Worker Foreman	24.3	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Lead Miner	7.4	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Mechanic Welder	7.4	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Miner	107.6	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Shaft Crane Operator	31.7	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Shifter	31.7	10	Sacramento to/from New Hope Shaft	19
NH-Central - 11	Toplander	31.7	10	Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-11		475.3			
NH-Central - 12	Bottomlander	106.8	10	Sacramento to/from New Hope Shaft	19
NH-Central - 12	Crane Oiler	106.8	10	Sacramento to/from New Hope Shaft	19
NH-Central - 12	Iron Worker	854.4	10	Sacramento to/from New Hope Shaft	19
NH-Central - 12	Iron Worker Foreman	106.8	10	Sacramento to/from New Hope Shaft	19
NH-Central - 12	Shaft Crane Operator	106.8	10	Sacramento to/from New Hope Shaft	19
NH-Central - 12	Toplander	106.8	10	Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-12		1388.4			
NH-Central - 13	Bottomlander	45	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Crane Oiler	45	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Electrician	238.4	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Hyd Crane Operator	238.4	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Lead Miner	467.7	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Mechanic / Welder	652	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Miner	2914.3	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Shaft Crane Operator	45	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Shifter	467.7	10	Sacramento to/from New Hope Shaft	19
NH-Central - 13	Toplander	45	10	Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-13		5158.5			
NH-Central - 14	Bottomlander	46.8	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Bullgang Foreman	36	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Bullgang Laborer	72	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Concrete Pump Operator	57.9	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Crane Oiler	115.5	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Flat Truck Driver	36	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Hyd Crane Operator	72	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Lead Miner	162.3	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Mechanic / Welder	140.4	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Miner	1298.4	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Shaft Crane Operator	162.3	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Shifter	162.3	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Toplander	162.3	10	Sacramento to/from New Hope Shaft	19
TOTAL NH-Central-14		2524.2			

Marine Inventory for New Hope - Central Tunnel Shaft
Options 7A, 7B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for New Hope - Central Tunnel Shaft
Options 7A, 7B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for New Hope - Central Tunnel Shaft
Options 7A, 7B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for New Hope - Central Tunnel Shaft
Options 7A, 7B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
NH-Central - 1	11.1	2	6	3587	1794						
NH-Central - 3		90				42939	477				
NH-Central - 4		12		352.8	29						
NH-Central - 5		1									
NH-Central - 6		38		5180	136						
NH-Central - 7		43									
NH-Central - 8		43		22878.0	532						

**Demolition Assumptions for New Hope - Central Tunnel Shaft
Options 7A, 7B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Staten Island Central Access Road
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Road Base on Access Road	SI_Central Access-1	2/19/2027	2/19/2027	1	1	10
12 Month Maintenance: First Overlay Access Road	SI_Central Access-2	4/14/2028	4/19/2028	4	4	10
12 Month Maintenance: Second Overlay Access Road	SI_Central Access-3	4/14/2029	4/19/2029	4	4	10
Initial Asphalt Overlay: Walnut Grove Blvd from Blossom Road to Staten Island Road	SI_Central Access-4	2/22/2027	3/1/2027	7	5	10
Intermediate Asphalt Overlay: Walnut Grove Blvd from Blossom Road to Staten Island Road	SI_Central Access-5	5/9/2030	5/16/2030	6	5	10
Final Asphalt Overlay: Walnut Grove Blvd from Blossom Road to Staten Island Road	SI_Central Access-6	6/12/2037	6/22/2037	9	5	10

Acres - New Road1.2

Construction Schedule for Staten Island - Central Tunnel Shaft						
Options 7A, 7B						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Clear and Grub	SI-Central - 1	10/19/2028	10/20/2028	2	2	10
Ground Improvement	SI-Central - 2	11/13/2028	12/29/2028	34	5	10
Raise Shaft Pad	SI-Central - 3	1/1/2029	7/27/2029	148	5	10
Excavate, Set Strips, & Place Guide Wall	SI-Central - 4	7/30/2029	8/14/2029	12	5	10
Place Guide Walls Concrete	SI-Central - 5	8/16/2029	8/16/2029	1	1	10
Excavate Slurry Wall & Place Concrete & Rebar	SI-Central - 6	8/17/2029	9/25/2029	40	7	24
Slurry Wall including Strip Forms and Place Rebar & Top Beam	SI-Central - 7	9/26/2029	11/7/2029	43	7	24
Excavate Shaft	SI-Central - 8	11/8/2029	12/17/2029	40	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	SI-Central - 9	12/18/2029	12/31/2029	14	7	24
Dewater Shaft	SI-Central - 10	1/1/2030	1/7/2030	7	7	24
Place TBM Cradle Rebar and Cradle Pour	SI-Central - 11	1/8/2030	1/15/2030	6	5	10
Breakout Slurry Wall for TBM	SI-Central - 12	1/16/2030	2/11/2030	20	5	10
Ring Beam	SI-Central - 13	1/8/2030	1/15/2030	6	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	SI-Central - 14	1/16/2030	4/29/2030	75	5	10
Place Shaft Cover	SI-Central - 15	4/29/2030	5/7/2030	7	5	10
Total Site Acres	12					

Offroad Equipment (Fossil Fuel) Inventory for Staten Island - Central Tunnel Shaft
Options 7A, 7B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
SI-Central - 1	CAT D8 Dozer	Crawler Tractor	26.66	2	13	Diesel Tier 4 or Hybrid Diesel	179	0.43		
SI-Central - 1	CAT Grader 16H - 16' Blade	Grader	26.66	2	13	Diesel	285	0.41		
SI-Central - 1	623G Scraper Elevate 21 CY	Scaper	53.32	2	27	Diesel	359	0.48		
SI-Central - 2	Air Compressor 375 CFM	Air Compressor	272	34	8	Diesel Tier 4	122	0.48		
SI-Central - 2	Grove RT Crane 30T	Crane	272	34	8	Diesel	160	0.29		
SI-Central - 2	DMM Deep Soil Mixer	Bore Drill Rig	272	34	8	Diesel	808	0.5		
SI-Central - 2	DMM Grout Mix Plant	Other Industrial Equipmen	272	34	8	Diesel	500	0.34		
SI-Central - 2	Portable 90 Kw Diesel	Generators	68	34	2	Diesel Tier 4	158	0.74		
SI-Central - 2	Case 590 SupN Loader	Rubber Tired Loaders	272	34	8	Diesel	110	0.36		
SI-Central - 2	Water Pump 4" Electric	Pumps	634.9	34	19	Diesel	10	0.74		
SI-Central - 3	CAT CB-634D Vibratory 84"	Rollers	1602	148	11	Diesel	145	0.38		
SI-Central - 3	CAT Grader 16H	Graders	1602	148	11	Diesel	285	0.41		
SI-Central - 3	CAT D8 Dozer	Crawler Tractor	1602	148	11	Diesel	328	0.43		
SI-Central - 4	CAT Hyd Excavator 1CY	Excavator	5.4	12	0	Diesel	138	0.38		
SI-Central - 4	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	5.5	12	0	Diesel or Hybrid	130	0.36		
SI-Central - 6	1600 CFM Compressor Diesel	Air Compressor	189.9	40	5	Diesel Tier 4	540	0.48		
SI-Central - 6	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	189.9	40	5	Diesel or Hybrid	130	0.36		
SI-Central - 6	Hydraulic 55 Ton Crane	Crane	379.8	40	9	Diesel	350	0.29		
SI-Central - 6	Manitowoc 777 200 Ton Crane	Crane	379.8	40	9	Diesel	760	0.29		
SI-Central - 6	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	189.9	40	5	Diesel	8	0.56		
SI-Central - 6	Slurry Wall Techniwell	Pumps	189.9	40	5	Diesel	500	0.74		
SI-Central - 7	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	212	43	5	Diesel or Hybrid	130	0.36		
SI-Central - 7	250 CFM Compressor Diesel	Air Compressor	3.6	43	0.1	Diesel Tier 3	75	0.48		
SI-Central - 7	CAT Hyd Excavator 1CY	Excavator	212	43	5	Diesel	138	0.38		
SI-Central - 7	Hydraulic Excavator to 3.5 tons = Kobelco SK485LC 2.75cy 345 hp Excavator	Excavator	212	43	4.9	Diesel	345	0.38		
SI-Central - 8	Manitowoc 777 200 Ton Crane	Crane	207.9	40	5	Diesel	760	0.29		
SI-Central - 9	Manitowoc 777 200 Ton Crane	Crane	99.9	14	7	Diesel	760	0.29		
SI-Central - 9	Hydraulic 40 Ton Crane	Crane	32.4	14	2	Diesel	300	0.29		
SI-Central - 9	Hydraulic 25 Ton Crane	Crane	68.8	14	5	Diesel	100	0.29		
SI-Central - 10	Dewater Pump 6"	Pump	360	7	51	Diesel	50	0.74		
SI-Central - 10	150 KW Diesel Generator	Generator	90	7	13	Diesel Tier 4	183	0.74		
SI-Central - 10	Hydraulic 15 Ton Crane	Crane	90	7	13	Diesel	100	0.29		
SI-Central - 11	Manitowoc 777 200 Ton Crane	Crane	31.68	6	5	Diesel	760	0.29		
SI-Central - 11	250 CFM Compressor Diesel	Air Compressor	7.4	6	1	Diesel Tier 3	75	0.48		
SI-Central - 11	Trailer Conc Pump 100 CY HR	Pump	7.4	6	1	Diesel	200	0.74		
SI-Central - 12	250 CFM Compressor Diesel	Air Compressor	106.8	20	5	Diesel Tier 3	75	0.48		
SI-Central - 12	Manitowoc 777 200 Ton Crane	Crane	106.8	20	5	Diesel	760	0.29		
SI-Central - 13	250 CFM Compressor Diesel	Air Compressor	46.8	6	8	Diesel Tier 3	75	0.48		
SI-Central - 13	Manitowoc 777 200 Ton Crane	Crane	46.8	6	8	Diesel	760	0.29		
SI-Central - 13	Trailer Conc Pump 100 CY HR	Pump	46.8	6	8	Diesel	200	0.74		
SI-Central - 14	Hydraulic 9 Ton Crane	Crane	238.2	75	3	Diesel	85	0.29		
SI-Central - 14	250 CFM Compressor Diesel	Air Compressor	583.2	75	8	Diesel Tier 3	75	0.48		
SI-Central - 14	Trailer Conc Pump 100 CY HR	Pump	242.2	75	3	Diesel	200	0.74		
SI-Central - 14	Manitowoc 777 200 Ton Crane	Crane	45	75	1	Diesel	760	0.29		
SI-Central - 14	Manitowoc 999-275 Ton Crane	Crane	115.5	75	2	Diesel	900	0.29		
SI-Central - 15	Hydraulic 9 Ton Crane	Crane	45	7	6	Diesel	85	0.29		
SI-Central - 15	Hydraulic 40 Ton Crane	Crane	45	7	6	Diesel	300	0.29		
SI-Central - 15	CAT Forklift 5,500 LB	Aerial Lift	45	7	6	Diesel	63	0.31		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Staten Island - Central Tunnel Shaft
Options 7A, 7B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
SI-Central - 14	Axial Fan 114,000 CFM	54	75	50	36
SI-Central - 14	Electric Welder 400 AMP	184.3	75	15	37

Vehicle Inventory for Staten Island - Central Tunnel Shaft
Options 7A, 7B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/trip	# of Vehicles Trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
SI-Central - 1	Truck Flatbed 4 T Highway	Materials from Sacramento	2	110.8	1.2	95	48	Staten Island Shaft to/from/from Sacramento	35	70	Diesel	
SI-Central - 1	Truck, Flatbed, 10T, Hwy	Grader and Scraper to and from Sacramento	2	4.7	1.2	4	2.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 1	Truck, Flatbed, 10T, Hwy	Crawler Tractor from Sacramento	1	1.2	1.2	1	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 2	Pickup 1/2T 2 WD	Materials from Sacramento	34	634.9	1.2	544	16	Staten Island Shaft to/from Sacramento	35	70	Hybrid Gasoline	
SI-Central - 2	Truck Flatbed 4 T Highway	Materials from Sacramento	34	634.9	1.2	544	16	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 2	Mechanic Truck	Materials from Sacramento	34	634.9	1.2	544	16	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 2	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement from Sacramento	34	199.5	1.2	171	5	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 2	Truck, Flatbed, 10T, Hwy	Crane, Trencher, & Other Equipment to and from Sacramento	2	7.0	1.2	6	3.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 3	Highway Dump Truck 18 CY	Materials from Sacramento	148	1602.2	1.2	1373	9	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 3	Truck/ End Dump/ 16-20cy Hwy	Soil Material in Covered Trucks from Twin Cities Complex	148	3134.0	0.7	4701	32	Staten Island Shaft to/from Sacramento	20	40	Diesel	
SI-Central - 3	Truck, Flatbed, 10T, Hwy	Grader and Roller to and from Sacramento	2	4.7	1.2	4	2.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 3	Truck, Flatbed, 10T, Hwy	Crawler Tractor to Sacramento	1	1.2	1.2	1	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 4	Truck, Flatbed, 10T, Hwy	Excavator to and from Sacramento	2	1.2	1.2	1	0.5	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 4	Truck, Flatbed, 10T, Hwy	Loader from Sacramento	1	1.2	1.2	1	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 4	Truck, Flatbed, 10T, Hwy	Rebar from Sacramento	1	1.2	1.2	1	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 5	Truck, Water, 4 lgal, Hwy	Recycled Water from Lodi	1	227.2	0.6	401	401.0	Staten Island Shaft to/from Lodi	17	34	Diesel	
SI-Central - 5	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road CBP	1	14.0	0.7	21	21	Staten Island Shaft to/from Lambert Road Concrete Batch Plant	20	40	Diesel	
SI-Central - 5	Truck Flatbed 4 T Highway	Rebar from Sacramento	1	1.2	1.2	1	1	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 6	Truck Flatbed 4 T Highway	Rebar from Sacramento	40	25.7	1.2	22	1	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 6	Truck, Flatbed, 10T, Hwy	Crane and Other Equipment to and from Sacramento	2	4.7	1.2	4	2.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 6	Truck, Flatbed, 10T, Hwy	Crane from Sacramento	1	1.2	1.2	1	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 6	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road CBP	40	333.3	0.7	500	13	Staten Island Shaft to/from Lambert Road Concrete Batch Plant	20	40	Diesel	
SI-Central - 6	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	40	322.0	1.2	276	7	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 7	Truck, Flatbed, 10T, Hwy	Rebar from Sacramento	1	1.2	1.2	1	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 7	Truck, Flatbed, 10T, Hwy	Loader to Sacramento	1	1.2	1.2	1	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 7	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road CBP	43	3.3	0.7	5	0	Staten Island Shaft to/from Lambert Road Concrete Batch Plant	20	40	Diesel	
SI-Central - 9	Truck Flatbed 4 T Highway	Rebar from Sacramento	14	8.2	1.2	7	1	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 9	Truck, Flatbed, 10T, Hwy	Cranes to and from Sacramento	2	4.7	1.2	4	2.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 9	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road CBP	14	290.7	0.7	436	31	Staten Island Shaft to/from Lambert Road Concrete Batch Plant	20	40	Diesel	
SI-Central - 10	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	2.3	1.2	2	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 11	Truck Flatbed 4 T Highway	Rebar from Sacramento	6	1.2	1.2	1	0.2	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 11	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road CBP	6	21.3	0.7	32	5	Staten Island Shaft to/from Lambert Road Concrete Batch Plant	20	40	Diesel	
SI-Central - 12	Truck Flatbed 4 T Highway	Rebar from Sacramento	20	2.3	1.2	2	0.1	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 14	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road CBP	75	219.3	0.7	329	4	Staten Island Shaft to/from Lambert Road Concrete Batch Plant	20	40	Diesel	
SI-Central - 14	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	2.3	1.2	2	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 15	Highway Flatbed 10 Ton	Materials from Sacramento	7	45.0	1.2	39	6	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 15	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	2.3	1.2	2	1.0	Staten Island Shaft to/from Sacramento	35	70	Diesel	
SI-Central - 15	Truck, Flatbed, 10T, Hwy	Crane to Sacramento	2	1.2	1.2	1	0.5	Staten Island Shaft to/from Sacramento	35	70	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site										Miles On-Site		
SI-Central - 4	CAT 730 Rear Dumbo	Dumper	12	16.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		81	Diesel or Hybrid	
SI-Central - 6	CAT 730 Rear Dumbo	Dumper	40	189.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		950	Diesel or Hybrid	
SI-Central - 6	Articulated Rear Dumbo 22 CY/CAT 730	Dumper	40	189.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		950	Diesel or Hybrid	
SI-Central - 6	Concrete Pumbo Truck	Off-Highway Truck	40	379.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1899	Diesel	

Employees Required to Staten Island - Central Tunnel Shaft
Options 7A, 7B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
SI-Central - 1	General Foreman	13.33	10		Stockton to/from Staten Island Shaft	26
SI-Central - 1	Dozer Operator	26.66	10		Stockton to/from Staten Island Shaft	26
SI-Central - 1	Grader Operator	26.66	10		Stockton to/from Staten Island Shaft	26
SI-Central - 1	Operator G4 Grade Check	13.33	10		Stockton to/from Staten Island Shaft	26
SI-Central - 1	Scraper Operator	53.32	10		Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-1						
SI-Central - 2	Laborer G2 General	1904.6	10		Stockton to/from Staten Island Shaft	26
SI-Central - 2	Operator G3a Crane	634.9	10		Stockton to/from Staten Island Shaft	26
SI-Central - 2	Operator G3 BH Loader	634.9	10		Stockton to/from Staten Island Shaft	26
SI-Central - 2	Operating Engineer	634.9	10		Stockton to/from Staten Island Shaft	26
SI-Central - 2	Operator G4 Grade Check	634.9	10		Stockton to/from Staten Island Shaft	26
SI-Central - 2	Operator G4 Heavy Duty Mechanic	634.9	10		Stockton to/from Staten Island Shaft	26
SI-Central - 2	Operator G2 Plant Operator	1269.8	10		Stockton to/from Staten Island Shaft	26
SI-Central - 2	Teamster G1 Hwy	634.9	10		Stockton to/from Staten Island Shaft	26
SI-Central - 2	Teamster G2 Hwy	634.9	10		Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-2						
SI-Central - 3	Compactor Operator	1602.2	10		Stockton to/from Staten Island Shaft	26
SI-Central - 3	Dozer Operator	1602.2	10		Stockton to/from Staten Island Shaft	26
SI-Central - 3	Grade Setter / Checker	1602.2	10		Stockton to/from Staten Island Shaft	26
SI-Central - 3	Grader Operator	1602.2	10		Stockton to/from Staten Island Shaft	26
SI-Central - 3	Truck Driver	1602.2	10		Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-3						
SI-Central - 4	Carpenter	318.1	10		Stockton to/from Staten Island Shaft	26
SI-Central - 4	Carpenter Foreman	79.5	10		Stockton to/from Staten Island Shaft	26
SI-Central - 4	Excavator Operator	5.4	10		Stockton to/from Staten Island Shaft	26
SI-Central - 4	Lead Miner	5.4	10		Stockton to/from Staten Island Shaft	26
SI-Central - 4	Loader Operator	5.4	10		Stockton to/from Staten Island Shaft	26
SI-Central - 4	Miner	5.4	10		Stockton to/from Staten Island Shaft	26
SI-Central - 4	Shifter	5.4	10		Stockton to/from Staten Island Shaft	26
SI-Central - 4	Truck Driver	16.2	10		Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-4						
SI-Central - 5	Carpenter	85.5	10		Stockton to/from Staten Island Shaft	26
SI-Central - 5	Carpenter Foreman	21.4	10		Stockton to/from Staten Island Shaft	26
SI-Central - 5	General Laborer	9.8	10		Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-5						
SI-Central - 6	Crane Oiler	379.8	24		Stockton to/from Staten Island Shaft	26
SI-Central - 6	General Foreman	379.8	24		Stockton to/from Staten Island Shaft	26
SI-Central - 6	General Laborer	2088.9	24		Stockton to/from Staten Island Shaft	26
SI-Central - 6	Hyd Crane Operator	379.8	24		Stockton to/from Staten Island Shaft	26
SI-Central - 6	Iron Worker	1899	24		Stockton to/from Staten Island Shaft	26
SI-Central - 6	Iron Worker Foreman	379.8	24		Stockton to/from Staten Island Shaft	26
SI-Central - 6	Lead Miner	189.9	24		Stockton to/from Staten Island Shaft	26
SI-Central - 6	Loader Operator	189.9	24		Stockton to/from Staten Island Shaft	26
SI-Central - 6	Mechanic Welder	379.8	24		Stockton to/from Staten Island Shaft	26
SI-Central - 6	Miner	1519.2	24		Stockton to/from Staten Island Shaft	26
SI-Central - 6	Shaft Crane Operator	379.8	24		Stockton to/from Staten Island Shaft	26
SI-Central - 6	Shifter	569.7	24		Stockton to/from Staten Island Shaft	26
SI-Central - 6	Truck Driver	216.5	24		Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-6						
SI-Central - 7	Carpenter	24.3	24		Stockton to/from Staten Island Shaft	26
SI-Central - 7	Carpenter Foreman	6.1	24		Stockton to/from Staten Island Shaft	26
SI-Central - 7	Excavator Operator	212	24		Stockton to/from Staten Island Shaft	26
SI-Central - 7	General Foreman	212	24		Stockton to/from Staten Island Shaft	26
SI-Central - 7	General Laborer	652.9	24		Stockton to/from Staten Island Shaft	26
SI-Central - 7	Iron Worker	19.7	24		Stockton to/from Staten Island Shaft	26
SI-Central - 7	Iron Worker Foreman	4.9	24		Stockton to/from Staten Island Shaft	26
SI-Central - 7	Loader Operator	212	24		Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-7						
SI-Central - 8	Shaft Crane Operator	207.9	24		Stockton to/from Staten Island Shaft	26
SI-Central - 8	Toplander	207.9	24		Stockton to/from Staten Island Shaft	26
SI-Central - 8	Crane Oiler	207.9	24		Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-8						
SI-Central - 9	Bottomlander	99.9	24		Stockton to/from Staten Island Shaft	26
SI-Central - 9	Hyd Crane Operator	101.2	24		Stockton to/from Staten Island Shaft	26
SI-Central - 9	Iron Worker	1058.4	24		Stockton to/from Staten Island Shaft	26

SI-Central - 9	Iron Worker Foreman	132.3	24	Stockton to/from Staten Island Shaft	26
SI-Central - 9	Lead Miner	17.2	24	Stockton to/from Staten Island Shaft	26
SI-Central - 9	Miner	402.3	24	Stockton to/from Staten Island Shaft	26
SI-Central - 9	Shaft Crane Operator	99.9	24	Stockton to/from Staten Island Shaft	26
SI-Central - 9	Shifter	149.5	24	Stockton to/from Staten Island Shaft	26
SI-Central - 9	Toplander	229.5	24	Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-9					
SI-Central - 10	Hyd Crane Operator	90	24	Stockton to/from Staten Island Shaft	26
SI-Central - 10	Lead Miner	90	24	Stockton to/from Staten Island Shaft	26
SI-Central - 10	Miner	720	24	Stockton to/from Staten Island Shaft	26
SI-Central - 10	Shifter	90	24	Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-10					
SI-Central - 11	Crane Oiler	31.7	10	Stockton to/from Staten Island Shaft	26
SI-Central - 11	Electrician	7.4	10	Stockton to/from Staten Island Shaft	26
SI-Central - 11	Iron Worker	194.4	10	Stockton to/from Staten Island Shaft	26
SI-Central - 11	Iron Worker Foreman	24.3	10	Stockton to/from Staten Island Shaft	26
SI-Central - 11	Lead Miner	7.4	10	Stockton to/from Staten Island Shaft	26
SI-Central - 11	Mechanic Welder	7.4	10	Stockton to/from Staten Island Shaft	26
SI-Central - 11	Miner	107.6	10	Stockton to/from Staten Island Shaft	26
SI-Central - 11	Shaft Crane Operator	31.7	10	Stockton to/from Staten Island Shaft	26
SI-Central - 11	Shifter	31.7	10	Stockton to/from Staten Island Shaft	26
SI-Central - 11	Toplander	31.7	10	Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-11					
SI-Central - 12	Bottomlander	106.8	10	Stockton to/from Staten Island Shaft	26
SI-Central - 12	Crane Oiler	106.8	10	Stockton to/from Staten Island Shaft	26
SI-Central - 12	Iron Worker	854.4	10	Stockton to/from Staten Island Shaft	26
SI-Central - 12	Iron Worker Foreman	106.8	10	Stockton to/from Staten Island Shaft	26
SI-Central - 12	Shaft Crane Operator	106.8	10	Stockton to/from Staten Island Shaft	26
SI-Central - 12	Toplander	106.8	10	Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-12					
SI-Central - 13	Bottomlander	46.8	10	Stockton to/from Staten Island Shaft	26
SI-Central - 13	Lead Miner	46.8	10	Stockton to/from Staten Island Shaft	26
SI-Central - 13	Mechanic / Welder	46.8	10	Stockton to/from Staten Island Shaft	26
SI-Central - 13	Miner	374.4	10	Stockton to/from Staten Island Shaft	26
SI-Central - 13	Shaft Crane Operator	46.8	10	Stockton to/from Staten Island Shaft	26
SI-Central - 13	Shifter	46.8	10	Stockton to/from Staten Island Shaft	26
SI-Central - 13	Toplander	46.8	10	Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-13					
SI-Central - 14	Bottomlander	45	10	Stockton to/from Staten Island Shaft	26
SI-Central - 14	Concrete Pump Operator	57.9	10	Stockton to/from Staten Island Shaft	26
SI-Central - 14	Crane Oiler	161	10	Stockton to/from Staten Island Shaft	26
SI-Central - 14	Electrician	238.4	10	Stockton to/from Staten Island Shaft	26
SI-Central - 14	Hyd Crane Operator	238.3	10	Stockton to/from Staten Island Shaft	26
SI-Central - 14	Lead Miner	583.2	10	Stockton to/from Staten Island Shaft	26
SI-Central - 14	Mechanic / Welder	709.6	10	Stockton to/from Staten Island Shaft	26
SI-Central - 14	Miner	3838.3	10	Stockton to/from Staten Island Shaft	26
SI-Central - 14	Shaft Crane Operator	161	10	Stockton to/from Staten Island Shaft	26
SI-Central - 14	Shifter	583.2	10	Stockton to/from Staten Island Shaft	26
SI-Central - 14	Toplander	161	10	Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-14					
SI-Central - 15	Bullgang Foreman	45	10	Stockton to/from Staten Island Shaft	26
SI-Central - 15	Bullgang Laborer	90	10	Stockton to/from Staten Island Shaft	26
SI-Central - 15	Mechanic / Welder	45	10	Stockton to/from Staten Island Shaft	26
SI-Central - 15	Hyd Crane Operator	90	10	Stockton to/from Staten Island Shaft	26
SI-Central - 15	Flat Truck Driver	45	10	Stockton to/from Staten Island Shaft	26
TOTAL SI-Central-15					

Marine Inventory for Staten Island - Central Tunnel Shaft
Options 7A, 7B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Staten Island - Central Tunnel Shaft
Options 7A, 7B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Staten Island - Central Tunnel Shaft
Options 7A, 7B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Staten Island - Central Tunnel Shaft
Options 7A, 7B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
SI-Central - 1	12	2	6	6716	3358						
SI-Central - 3		148				70514.7	476				
SI-Central - 4		12		352.8	29						
SI-Central - 6		40		4741.2	119						
SI-Central - 8		40		22878	572						

**Demolition Assumptions for Staten Island - Central Tunnel Shaft
Options 7A, 7B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Charter Way Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Excavation	CWPR-1	11/1/2026	11/12/2026	10	5	10
Culvert Pipe	CWPR-2	11/13/2026	11/13/2026	1	1	10
Subdrain System	CWPR-3	11/16/2026	11/16/2026	1	1	10
Road Base	CWPR-4	11/17/2026	11/19/2026	3	3	10
Asphalt Paving	CWPR-5	11/20/2026	11/24/2026	5	5	10
Electrical, Striping, and K-Rail Installation	CWPR-6	11/25/2026	11/25/2026	1	5	10

Acres2.4

Construction Schedule for Rio Vista Park and Ride

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	RVPR -1	11/20/2026	11/30/2026	9	5	10
Embankment	RVPR -2	12/1/2026	12/1/2026	1	1	10
Culvert Pipe	RVPR -3	12/2/2026	12/2/2026	1	1	10
Subdrain System	RVPR -4	12/3/2026	12/3/2026	1	1	10
Road Base	RVPR -5	12/4/2026	12/8/2026	5	5	10
Asphalt Paving	RVPR -6	12/9/2026	12/14/2026	5	5	10
Electrical, Striping, and K-Rail Installation	RVPR -7	12/15/2026	12/15/2026	1	1	10

Acres

3.1

Construction Schedule for Bouldin I Levee - Central
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Construct Levee	Bouldin I Levee-C -1	2/28/2028	6/19/2028	96	5	10

Acres251

Construction Schedule for Bouldin I On-Site - Central Access Road

Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	Bouldin OnSite-C Access -1	2/29/2028	3/10/2028	9	5	10
Embankment	Bouldin OnSite-C Access -2	3/13/2028	3/20/2028	5	5	10
Culvert Pipe	Bouldin OnSite-C Access -3	3/21/2028	3/22/2028	2	2	10
Bridge Over SR 12	Bouldin OnSite-C Access -4	4/16/2027	9/30/2027	120	5	10
Subdrain System	Bouldin OnSite-C Access -5	3/23/2028	4/7/2028	14	5	10
Road Base	Bouldin OnSite-C Access -6	4/10/2028	4/28/2028	14	5	10
Asphalt Paving	Bouldin OnSite-C Access -7	5/1/2028	5/5/2028	5	5	10
KRail and Signs	Bouldin OnSite-C Access -8	5/8/2028	5/8/2028	1	1	10
Intermediate Overlay	Bouldin OnSite-C Access -9	7/17/2030	7/22/2030	5	5	10
Final Overlay	Bouldin OnSite-C Access -10	8/20/2037	8/26/2037	5	5	10

Acres

17.4

Construction Schedule for Bouldin I SR12 - Central Access Road**Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B****THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1****NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION**

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	BouldinSR12-C Access -1	1/25/2027	2/18/2027	19	5	10
Embankment	BouldinSR12-C Access -2	2/19/2027	3/15/2027	19	5	10
Culvert Pipe	BouldinSR12-C Access -3	4/16/2027	4/21/2027	5	5	10
SR 12 Bridge Widening	BouldinSR12-C Access -4	4/16/2027	12/23/2027	181	5	10
Subdrain System	BouldinSR12-C Access -5	4/22/2027	6/16/2027	40	5	10
Road Base	BouldinSR12-C Access -6	6/17/2027	9/8/2027	60	5	10
Asphalt Paving	BouldinSR12-C Access -7	11/16/2027	12/23/2027	27	5	10
KRail and Signs	BouldinSR12-C Access -8	12/24/2027	2/28/2028	5	5	10
Intermediate Overlay	BouldinSR12-C Access -9	5/17/2030	7/16/2030	25	5	10
Final Overlay	BouldinSR12-C Access -10	6/22/2037	8/20/2037	43	5	10

Acres **70.8**

Construction Schedule for Bouldin Island - Central Tunnel Shaft						
Options 7A, 7B						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Mobilize	Bouldin I-Central - 1	7/19/2028	9/12/2028	39	5	10
Mangagement, Engineering, & Field Labor	Bouldin I-Central - 2	7/19/2028	12/3/2035	1925	5	10
Clear and Grub	Bouldin I-Central - 3	9/13/2028	10/10/2028	19	5	10
Ground Improvement, Grading, & Compaction at Shaft & Segment Storage Area	Bouldin I-Central - 4	9/13/2028	10/9/2029	279	5	10
Ground Improvement, Grading, & Compaction at RTM Storage Area	Bouldin I-Central - 5	10/10/2029	8/12/2030	220	5	10
Raise Shaft Pad	Bouldin I-Central - 6	3/14/2029	2/26/2030	250	5	10
Excavate, Set Strips, & Concrete for Shaft & Segment Areas	Bouldin I-Central - 7	10/31/2029	12/18/2029	35	5	10
Place Guide Walls Concrete	Bouldin I-Central - 8	2/27/2030	3/22/2030	18	5	10
Excavate Slurry Wall, Place Concrete & Rebar, Slurry Wall, Remove Guide Wall, & add Top Beam	Bouldin I-Central - 9	3/25/2030	7/18/2030	85	5	10
Excavate Shaft	Bouldin I-Central - 10	7/19/2030	10/16/2030	66	5	10
Place Tremie Seal Rebar, Cooling Pipes, & Seal	Bouldin I-Central - 11	10/17/2030	11/13/2030	28	7	24
Dewater Shaft	Bouldin I-Central - 12	11/14/2030	11/20/2030	10	7	24
Place TBM Cradle Rebar and Cradle Pour	Bouldin I-Central - 13	11/21/2030	12/3/2030	10	5	10
Breakout Slurry Wall for TBM	Bouldin I-Central - 14	12/4/2030	12/31/2030	20	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	Bouldin I-Central - 15	1/1/2031	3/25/2031	60	5	10
Erect Gantry Crane	Bouldin I-Central - 16	3/26/2031	4/16/2031	16	5	10
TBM Assembly including Shaft Utilities	Bouldin I-Central - 17	4/17/2031	12/3/2031	165	5	10
Tunneling Operations including Equipment Delivery	Bouldin I-Central - 18	4/17/2031	9/18/2035	1385	6	20
Remove TBM and Tunnel Equipment	Bouldin I-Central - 19	9/18/2035	11/14/2035	42	5	10
Remove Equipment from Site	Bouldin I-Central - 20	10/31/2035	12/3/2035	24	5	10
Final Access to RTM Storage Area	Bouldin I-Central - 21	12/3/2035	12/6/2035	3	3	10
Site Restoration	Bouldin I-Central - 22	12/6/2035	6/20/2036	141	5	10
Total Site Acres	338					

**Offroad Equipment (Fossil Fuel) Inventory for Bouldin Island - Central Tunnel Shaft
Options 7A, 7B**

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
Bouldin I-Central - 1	Hydraulic 9 Ton Crane	Crane	372	39	10	Diesel	85	0.29		
Bouldin I-Central - 1	Hydraulic 40 Ton Crane	Crane	372	39	10	Diesel	300	0.29		
Bouldin I-Central - 1	CAT Forklift 5,500 LB	Aerial Lift	372	39	10	Diesel	63	0.31		
Bouldin I-Central - 3	CAT D8 Dozer	Crawler Tractor	1018	19	54	Diesel Tier 4 or Hybrid Diesel	179	0.43		
Bouldin I-Central - 3	Grader 16H - 16' Blade	Grader	1018	19	54	Diesel	285	0.41		
Bouldin I-Central - 3	623G Scraper Elevate 21 CY	Scaper	2036	19	107	Diesel	359	0.48		
Bouldin I-Central - 4	Air Compressor 375 CFM	Air Compressor	6389.4	279	23	Diesel Tier 4	122	0.48		
Bouldin I-Central - 4	Grove RT Crane 30T	Crane	6389.4	279	23	Diesel	160	0.29		
Bouldin I-Central - 4	DMM Deep Soil Mixer	Bore Drill Rig	2790	279	10	Diesel	522	0.5		
Bouldin I-Central - 4	DMM Grout Mix Plant	Other Industrial Equipmen	6389.4	279	23	Diesel	500	0.34		
Bouldin I-Central - 4	Portable 90 Kw Diesel	Generators	279	279	1	Diesel Tier 4	158	0.74		
Bouldin I-Central - 4	Case 590 SupN Loader	Rubber Tired Loaders	6389.4	279	23	Diesel	110	0.36		
Bouldin I-Central - 5	Air Compressor 375 CFM	Air Compressor	3298.7	220	15	Diesel Tier 4	122	0.48		
Bouldin I-Central - 5	Case 590 SupN Loader	Rubber Tired Loaders	3298.7	220	15	Diesel	110	0.36		
Bouldin I-Central - 5	CAT 825H Compactor	Rollers	113.5	220	1	Diesel	145	0.38		
Bouldin I-Central - 5	CAT 980 Loader 7.5 CY	Grader	113.5	220	1	Diesel	285	0.41		
Bouldin I-Central - 5	CAT CB-634D Vibratory 84"	Rollers	113.5	220	1	Diesel	315	0.38		
Bouldin I-Central - 5	CAT D8 Dozer	Crawler Tractor	113.5	220	1	Diesel Tier 4 or Hybrid Diesel	179	0.43		
Bouldin I-Central - 5	CAT Grader 16H	Grader	113.5	220	1	Diesel	285	0.41		
Bouldin I-Central - 5	DMM Deep Soil Mixer	Bore Drill Rig	3298.7	220	15	Diesel	522	0.5		
Bouldin I-Central - 5	DMM Grout Mix Plant	Other Industrial Equipmen	3298.7	220	15	Diesel	500	0.34		
Bouldin I-Central - 5	Grove RT Crane 30T	Crane	3298.7	220	15	Diesel	160	0.29		
Bouldin I-Central - 5	Portable 90 Kw Diesel	Generators	220	220	1	Diesel Tier 4	158	0.74		
Bouldin I-Central - 6	CAT CB-634D Vibratory 84"	Rollers	5666	250	23	Diesel	145	0.38		
Bouldin I-Central - 6	CAT Grader 16H	Graders	5666	250	23	Diesel	285	0.41		
Bouldin I-Central - 6	CAT D8 Dozer	Crawler Tractor	5666	250	23	Diesel	328	0.43		
Bouldin I-Central - 7	Hydraulic 9 Ton Crane	Crane	210.2	35	6	Diesel	85	0.29		
Bouldin I-Central - 8	CAT Hyd Excavator 1CY	Excavator	9.2	18	1	Diesel	138	0.38		
Bouldin I-Central - 8	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	9.2	18	1	Diesel or Hybrid	130	0.36		
Bouldin I-Central - 9	1600 CFM Compressor Diesel	Air Compressor	519.4	85	6	Diesel Tier 4	540	0.48		
Bouldin I-Central - 9	250 CFM Compressor Diesel	Air Compressor	28.7	85	0	Diesel Tier 3	75	0.48		
Bouldin I-Central - 9	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	882.9	85	10	Diesel or Hybrid	130	0.36		
Bouldin I-Central - 9	CAT 980 Loader 7.5 CY	Grader	187.9	85	2	Diesel	285	0.41		
Bouldin I-Central - 9	CAT CB-634D Vibratory 84"	Rollers	187.9	85	2	Diesel	145	0.38		
Bouldin I-Central - 9	CAT Grader 16H	Graders	187.9	85	2	Diesel	285	0.41		
Bouldin I-Central - 9	CAT D8 Dozer	Crawler Tractor	187.9	85	2	Diesel	328	0.43		
Bouldin I-Central - 9	CAT Forklift 5,500 LB	Aerial Lift	15.3	85	0	Diesel	63	0.31		
Bouldin I-Central - 9	CAT Hyd Excavator 1CY	Excavator	378.8	85	4	Diesel	138	0.38		
Bouldin I-Central - 9	Hydraulic 40 Ton Crane	Crane	15.3	85	0	Diesel	300	0.29		
Bouldin I-Central - 9	Hydraulic 55 Ton Crane	Crane	1038.8	85	12	Diesel	350	0.29		
Bouldin I-Central - 9	Hydraulic 9 Ton Crane	Crane	364.1	85	4	Diesel	85	0.29		
Bouldin I-Central - 9	Hydraulic Excavator to 3.5 tons = Kobelco SK485	Excavator	363.5	85	4	Diesel	345	0.38		
Bouldin I-Central - 9	Manitowoc 777 200 Ton Crane	Crane	1038.8	85	12	Diesel	760	0.29		
Bouldin I-Central - 9	Slurry Wall Mixer & Desander & Stop End &	Cement & Mortar Mix	519.4	85	6	Diesel	8	0.56		
Bouldin I-Central - 9	Slurry Wall Techniwell	Pumps	519.4	85	6	Diesel	500	0.74		
Bouldin I-Central - 10	Manitowoc 777 200 Ton Crane	Crane	677.2	66	10	Diesel	760	0.29		
Bouldin I-Central - 11	Manitowoc 777 200 Ton Crane	Crane	229.9	28	8	Diesel	760	0.29		
Bouldin I-Central - 11	Hydraulic 40 Ton Crane	Crane	76.5	28	3	Diesel	300	0.29		
Bouldin I-Central - 11	Hydraulic 25 Ton Crane	Crane	190	28	7	Diesel	100	0.29		
Bouldin I-Central - 12	Hydraulic 15 Ton Crane	Crane	95.7	10	10	Diesel	85	0.29		
Bouldin I-Central - 12	Dewater Pump 6"	Pump	382.6	10	38	Diesel	50	0.74		
Bouldin I-Central - 12	150 KW Diesel Generator	Generator	95.7	10	10	Diesel Tier 4	183	0.74		
Bouldin I-Central - 13	Manitowoc 777 200 Ton Crane	Crane	88.3	10	9	Diesel	760	0.29		
Bouldin I-Central - 13	250 CFM Compressor Diesel	Air Compressor	20.4	10	2	Diesel Tier 3	75	0.48		
Bouldin I-Central - 13	Trailer Conc Pump 100 CY HR	Pump	20.4	10	2	Diesel	200	0.74		
Bouldin I-Central - 14	Manitowoc 777 200 Ton Crane	Crane	292.1	20	15	Diesel	760	0.29		
Bouldin I-Central - 14	250 CFM Compressor Diesel	Air Compressor	292.1	20	15	Diesel Tier 3	75	0.48		
Bouldin I-Central - 15	250 CFM Compressor Diesel	Air Compressor	569.1	60	9	Diesel Tier 3	75	0.48		
Bouldin I-Central - 15	Manitowoc 777 200 Ton Crane	Crane	390.6	60	7	Diesel	760	0.29		
Bouldin I-Central - 15	Manitowoc 999-275 Ton Crane	Pump	272.4	60	4.5	Diesel	900	0.29		
Bouldin I-Central - 15	Trailer Conc Pump 100 CY HR	Pump	279.9	60	5	Diesel	200	0.74		
Bouldin I-Central - 16	1600 CFM Compressor Diesel	Air Compressor	149.3	16	9	Diesel Tier 4	540	0.48		
Bouldin I-Central - 16	Heavy Duty Mechanic Welder	Welder	149.3	16	9	Diesel	400	0.45		
Bouldin I-Central - 16	Hydraulic 25 Ton Crane	Crane	149.3	16	9	Diesel	100	0.29		
Bouldin I-Central - 16	Telescope Forklift 5500	Forklift	149.3	16	9	Diesel	63	0.2		
Bouldin I-Central - 16	Truck Crane Lattice Boom 90T	Crane	149.3	16	9	Diesel Tier 4	300	0.29		
Bouldin I-Central - 17	250 CFM Compressor Diesel	Air Compressor	2146.7	165	13	Diesel Tier 3	75	0.48		
Bouldin I-Central - 17	Hydraulic 40 Ton Crane	Crane	840	165	5	Diesel	300	0.29		
Bouldin I-Central - 18	250 CFM Compressor Diesel	Air Compressor	23229.7	1385	17	Diesel Tier 3	75	0.48		
Bouldin I-Central - 18	CAT 980 Loader 7.5 CY	Grader	19042	1385	14	Diesel	285	0.41		
Bouldin I-Central - 18	CAT Forklift 5,500 LB	Aerial Lift	11881.3	1385	9	Diesel	63	0.31		
Bouldin I-Central - 18	Grout Mixer	Cement & Mortar Mix	1136.8	1385	1	Diesel	70	0.56		
Bouldin I-Central - 18	Grout Pump	Cement & Mortar Mix	1136.8	1385	1	Diesel	500	0.56		
Bouldin I-Central - 18	Hydraulic 40 Ton Crane	Crane	11881.3	1385	9	Diesel	300	0.29		
Bouldin I-Central - 18	Hydraulic 9 Ton Crane	Crane	11881.3	1385	9	Diesel	85	0.29		
Bouldin I-Central - 19	1600 CFM Compressor Diesel	Air Compressor	93.3	42	2	Diesel Tier 4	540	0.48		
Bouldin I-Central - 19	Heavy Duty Mechanic Welder	Welder	93.3	42	2.2	Diesel	400	0.45		
Bouldin I-Central - 19	Hydraulic 25 Ton Crane	Crane	93.3	42	2	Diesel	100	0.29		
Bouldin I-Central - 19	Hydraulic 55 Ton Crane	Crane	667.3	42	16	Diesel	350	0.29		
Bouldin I-Central - 19	Manitowoc 777 200 Ton Crane	Crane	667.3	42	16	Diesel	760	0.29		
Bouldin I-Central - 19	Telescope RT Forklift 5500	Forklift	662.7	42	16	Diesel	63	0.2		
Bouldin I-Central - 19	Truck Crane Lattice Boom 90T	Crane	93.3	42	2	Diesel Tier 4	300	0.29		
Bouldin I-Central - 20	Telescope RT Forklift 5500	Forklift	429.3	24	18	Diesel	63	0.2		
Bouldin I-Central - 21	CAT 14 M	Grader	27.9	3	9	Diesel	274	0.41		
Bouldin I-Central - 21	Cat 613 C Self Loading Scraper	Scraper	55.8	3	19	Diesel	187	0.48		

Bouldin I-Central - 21	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	27.9	3	9	Diesel	158	0.38
Bouldin I-Central - 21	CAT D6LGPDozer w winch	Crawler Tractor	27.9	3	9	Diesel or Hybrid	179	0.43
Bouldin I-Central - 21	Water Pump 4" Electric	Pumps	27.9	3	9	Diesel	10	0.74
Bouldin I-Central - 22	CAT 12 M	Grader	9.3	141	0	Diesel	173	0.41
Bouldin I-Central - 22	CAT 390 MASS EXC	Excavator	520.8	141	4	Diesel	534	0.38
Bouldin I-Central - 22	Cat 6 mgal w/ CAT 725 Tractor, 320hp	Crawler Tractor	539.4	141	4	Diesel	320	0.43
Bouldin I-Central - 22	CAT 631G Scraper, Conventional	Scraper	892.8	141	6	Diesel	515	0.48
Bouldin I-Central - 22	CAT 966 Gil Wheel Loader	Rubber Tired Loader	9.3	141	0	Diesel	170	0.36
Bouldin I-Central - 22	CAT D8Rii, Dozer w winch	Crawler Tractor	892.8	141	6	Diesel	310	0.43
Bouldin I-Central - 22	CAT D9R, Dozer w ripper	Crawler Tractor	74.4	141	1	Diesel	410	0.43
Bouldin I-Central - 22	Farm Tractor, All Wheel Drive, 285 HP	Off-Highway Tractor	306.9	141	2	Diesel	80	0.44
Bouldin I-Central - 22	Hydro Mulcher, 18 HP	Pump	130.2	141	1	Diesel	25	0.29
Bouldin I-Central - 22	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	1302	141	9	Diesel	345	0.38

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

**Offroad Equipment (Electric) Inventory for Bouldin Island - Central Tunnel Shaft
Options 7A, 7B**

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
Bouldin I-Central - 4	Water Pump 4" Electric	6398.4	279	1	23
Bouldin I-Central - 5	Water Pump 4" Electric	3298.7	220	1	15
Bouldin I-Central - 17	Gantry Crane	1073.3	165	0.25	2
Bouldin I-Central - 17	Axial Fan 114,000 CFM	1540	165	50	467
Bouldin I-Central - 18	Axial Fan 114,000 CFM	209578.1	1385	50	7,566
Bouldin I-Central - 18	Gantry Crane	43273.1	1385	0.25	8
Bouldin I-Central - 19	Gantry Crane	569.3	42	0.25	3
Bouldin I-Central - 20	Gantry Crane	429.3	24	0.25	4

Electricity for TBM Operations included in the Summary Workbook

Vehicle Inventory for Bouldin Island - Central Tunnel Shaft
Options 7A, 7B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
Bouldin I - Central - 1	Truck, Flatbed, 10T, Hwy	Materials from Stockton	39	372.0	0.6	587	15.1	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 1	Truck, Flatbed, 10T, Hwy	Two Cranes and Forklift from and to Stockton	2	3.8	0.6	6	3.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 1	Truck, Flatbed, 10T, Hwy	Materials from Stockton	39	17.1	0.6	27	0.7	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 3	Truck, Flatbed, 10T, Hwy	Dozer and Grader from Stockton	1	1.3	0.6	2	2.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 3	Truck, Flatbed, 10T, Hwy	Scraper from and to Stockton	2	1.3	0.6	2	1.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 4	Pickup 1/2T 2 WD	Materials from Stockton	279	6398.4	0.6	10103	36.2	Bouldin Island Shaft to/from Stockton	19	38	Hybrid Gasoline	
Bouldin I - Central - 4	Truck Flatbed 4 T Highway	Materials from Stockton	279	6398.4	0.6	10103	36.2	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 4	Mechanic Truck	Materials from Stockton	279	6398.4	0.6	10103	36.2	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 4	Truck, Flatbed, 10T, Hwy	Crane, two Loaders, two Rollers, and Grader from Stockton	1	3.8	0.6	6	6.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 4	Truck Flatbed 4 T Highway	Materials from Stockton	279	119.1	0.6	188	0.7	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 4	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement from Stockton	279	385.1	0.6	608	2.2	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 5	Pickup 1/2T 2 WD	Materials from Stockton	220	3298.7	0.6	5208	23.7	Bouldin Island Shaft to/from Stockton	19	38	Hybrid Gasoline	
Bouldin I - Central - 5	Truck Flatbed 4 T Highway	Materials from Stockton	220	3298.7	0.6	5208	23.7	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 5	Mechanic Truck	Materials from Stockton	220	3298.7	0.6	5208	23.7	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 5	Truck, Flatbed, 10T, Hwy	Crane, two Loaders, and Refiler to Stockton	1	2.5	0.6	4	4.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 5	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	0.6	0.6	1	1.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 5	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement from Stockton	220	1150.8	0.6	1817	8.3	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 6	Highway Dump Truck 18 CY	Materials from Stockton	250	5660.0	0.6	8917	35.7	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 6	Truck, Flatbed, 10T, Hwy	Two Dozers, Roller, and three Graders to Stockton	1	3.8	0.6	6	6.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 6	Truck End Dump 16-20cy Hwy	Soil Material in Covered Trucks from Twin Cities Complex	250	14405.7	0.9	16622	66.5	Bouldin Island Shaft to/from Twin Cities Complex	26	52	Diesel	
Bouldin I - Central - 7	Truck Flatbed 4 T Highway	Materials from Stockton	35	20.9	0.6	33	0.9	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 7	Truck Flatbed 4 T Highway	Rebar from Sacramento	35	9.6	1.4	7	0.2	Bouldin Island Shaft to/from Sacramento	41	82	Diesel	
Bouldin I - Central - 7	Concrete Transit Mix Truck 12cy	Concrete from Lodi	35	258.1	0.5	553	15.8	Bouldin Island Shaft to/from Lodi	14	28	Diesel	
Bouldin I - Central - 8	Truck Flatbed 4 T Highway	Materials from Stockton	18	20.9	0.6	33	1.8	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 8	Truck Flatbed 4 T Highway	Rebar from Sacramento	18	82.0	1.4	60	3.3	Bouldin Island Shaft to/from Sacramento	41	82	Diesel	
Bouldin I - Central - 8	Concrete Transit Mix Truck 12cy	Concrete from Lodi	18	653.8	0.5	1401	77.8	Bouldin Island Shaft to/from Lodi	14	28	Diesel	
Bouldin I - Central - 8	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	18	222.8	1.4	163	9.1	Bouldin Island Shaft to/from Sacramento	41	82	Diesel	
Bouldin I - Central - 9	Truck, Flatbed, 10T, Hwy	Materials from Stockton	85	15.3	0.6	264	3.1	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 9	Truck, Flatbed, 10T, Hwy	Two Cranes and Forklift from Stockton	1	1.9	0.6	3	3.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 9	Truck, Flatbed, 10T, Hwy	Two Excavators, Crane, and Loader from and to Stockton	2	5.1	0.6	8	4.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 9	Truck Flatbed 4 T Highway	Rebar from Sacramento	85	16.4	1.4	12	0.1	Bouldin Island Shaft to/from Sacramento	41	82	Diesel	
Bouldin I - Central - 9	Concrete Transit Mix Truck 12cy	Concrete from Lodi	85	1133.2	0.5	935	11.0	Bouldin Island Shaft to/from Lodi	14	28	Diesel	
Bouldin I - Central - 11	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	0.6	0.6	1	1.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 11	Truck Flatbed 4 T Highway	Materials from Stockton	28	20.9	0.6	33	1.2	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 11	Truck Flatbed 4 T Highway	Rebar from Sacramento	28	19.1	1.4	14	0.5	Bouldin Island Shaft to/from Sacramento	41	82	Diesel	
Bouldin I - Central - 11	Concrete Transit Mix Truck 12cy	Concrete from Lodi	28	560.5	0.5	1201	42.9	Bouldin Island Shaft to/from Lodi	14	28	Diesel	
Bouldin I - Central - 12	Truck, Flatbed, 10T, Hwy	Crane from and to Stockton	2	1.3	0.6	2	1.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 12	Truck Flatbed 4 T Highway	Rebar from Sacramento	10	2.7	1.4	2	0.2	Bouldin Island Shaft to/from Sacramento	41	82	Diesel	
Bouldin I - Central - 12	Concrete Transit Mix Truck 12cy	Concrete from Lodi	10	40.1	0.5	86	8.6	Bouldin Island Shaft to/from Lodi	14	28	Diesel	
Bouldin I - Central - 13	Truck Flatbed 4 T Highway	Materials from Stockton	10	20.9	0.6	33	3.3	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 13	Truck Flatbed 4 T Highway	Rebar from Sacramento	10	2.7	1.4	2	0.2	Bouldin Island Shaft to/from Sacramento	41	82	Diesel	
Bouldin I - Central - 13	Concrete Transit Mix Truck 12cy	Concrete from Lodi	10	40.1	0.5	86	8.6	Bouldin Island Shaft to/from Lodi	14	28	Diesel	
Bouldin I - Central - 14	Truck Flatbed 4 T Highway	Rebar from Sacramento	20	6.8	1.4	5	0.3	Bouldin Island Shaft to/from Sacramento	41	82	Diesel	
Bouldin I - Central - 15	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	0.6	0.6	1	1.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 15	Truck Flatbed 4 T Highway	Materials from Stockton	60	20.9	0.6	33	0.6	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 15	Concrete Transit Mix Truck 12cy	Concrete from Lodi	60	230.5	0.5	494	8.2	Bouldin Island Shaft to/from Lodi	14	28	Diesel	
Bouldin I - Central - 16	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	0.6	0.6	1	1.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 16	Truck, Flatbed, 10T, Hwy	Crane from and to Stockton	2	1.3	0.6	2	1.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 17	Truck, Flatbed, 10T, Hwy	Pre Cast Segments from Stockton	165	786.6	0.6	1163	7.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 17	Highway Dump Truck 18 CY	Concrete and Grout from Lodi	165	726.1	0.5	1556	9.4	Bouldin Island Shaft to/from Lodi	14	28	Diesel	
Bouldin I - Central - 18	Truck, Flatbed, 10T, Hwy	Two Cranes to Stockton	1	1.3	0.6	2	2.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 18	Truck, Flatbed, 10T, Hwy	Loader from and to Stockton	2	1.3	0.6	2	1.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 18	Truck Flatbed 4 T Highway	Materials from Stockton	1385	235.0	0.6	371	0.3	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 18	Truck, Flatbed, 10T, Hwy	Pre Cast Segments from Stockton	1385	18778.3	0.6	29650	21.4	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 18	Highway Dump Truck 18 CY	Grout from Lodi	1385	4273.7	0.5	9158	6.6	Bouldin Island Shaft to/from Lodi	14	28	Diesel	
Bouldin I - Central - 19	Truck, Flatbed, 10T, Hwy	Three Cranes from and to Stockton	2	3.8	0.6	6	3.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 20	Truck, Flatbed, 10T, Hwy	Forklift to Stockton	1	0.6	0.6	1	1.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 20	Truck, Flatbed, 10T, Hwy	Two Cranes from and to Stockton	2	2.5	0.6	4	2.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 21	Pickup 1/2T 2 WD	Materials from Stockton	3	27.9	0.6	44	14.7	Bouldin Island Shaft to/from Stockton	19	38	Hybrid Gasoline	
Bouldin I - Central - 21	Truck, Flatbed, 10T, Hwy	Roller to Stockton	1	0.6	0.6	1	1.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	
Bouldin I - Central - 21	Truck, Flatbed, 10T, Hwy	Tractor, Grader, Roller, and Scraper from and to Stockton	2	5.1	0.6	8	4.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel	

Bouldin + Central - 21	Highway Dump Truck 18 CY	Base Rock from Lodi	3	23.3	0.5	50	16.7	Bouldin Island Shaft to/from Lodi	14	28	Diesel
Bouldin + Central - 22	Pickup 1/2T 2 WD	Materials from Stockton	141	520.8	0.6	822	5.8	Bouldin Island Shaft to/from Stockton	19	38	Hybrid Gasoline
Bouldin + Central - 22	Truck, Flatbed, 10T, Hwy	Scraper from and to Stockton	2	1.3	0.6	2	1.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel
Bouldin + Central - 22	Truck, Flatbed, 10T, Hwy	Two Excavators, Grader, 4 Tractors, Loader, and Scraper from and to Stockton	2	11.4	0.6	18	9.0	Bouldin Island Shaft to/from Stockton	19	38	Diesel
Bouldin + Central - 22	Truck Flatbed 4 T Highway	Materials from Stockton	141	51.3	0.6	81	0.6	Bouldin Island Shaft to/from Stockton	19	38	Diesel
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site											
Bouldin + Central - 5	Concrete Pump Truck	Off-Highway Truck	220	431.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2158	Diesel
Bouldin + Central - 7	Concrete Pump Truck	Off-Highway Truck	35	260.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1302	Diesel
Bouldin + Central - 8	CAT 730 Rear Dump	Dumper	18	148	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		742	Diesel or Hybrid
Bouldin + Central - 9	CAT 730 Rear Dump	Dumper	85	592	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2961	Diesel or Hybrid
Bouldin + Central - 9	Articulated Rear Dump 22 CY/CAT 730	Dumper	85	519.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2597	Diesel or Hybrid
Bouldin + Central - 9	Concrete Pump Truck	Off-Highway Truck	85	1038.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		5194	Diesel
Bouldin + Central - 22	CAT 740 40T, Articulated End dump Truck	Dumper	141	260.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1302	Diesel or Hybrid
Bouldin + Central - 22	Truck End Dump 10-13cy Hwy	Dumper	141	6249.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		31248	Diesel

Employees Required to Bouldin Island - Central Tunnel Shaft
Options 7A, 7B

Code	Employee Type	Hours	# Work Hours/Day	Trip Location (to/from)	Commute Miles/ 1 round trip/ 1day
Bouldin I-Central - 1	Bullgang Foreman	372	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 1	Bullgang Laborer	744	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 1	Mechanic / Welder	372	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 1	Hyd Crane Operator	744	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 1	Flat Truck Driver	372	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-1					
Bouldin I-Central - 2	Accountant	12052.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Concrete Superintendent	6026.4	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Cost Engineer	12052.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Electrical Superintendent	12052.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	EMT	12052.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Environmental Manager	12052.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Equipment Superintendent	12052.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Field Engineer	9039.6	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	General Superintendent	12052.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Geotechnical Manager	12052.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Office Administrator	12052.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Office Manager	12052.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Payroll Clerk	12052.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Project Engineer	12052.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Project Manager	12052.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Purchasing Agent	12052.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	QC Manager	12052.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	QC Technician	6026.4	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Runner	12052.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Safety Engineer	24105.6	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Safety Manager	12052.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Schedule Engineer	6026.4	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Shift Engineers	24105.6	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Survey Party Chief	12052.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Survey Rod Man	12052.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Tunnel Superintendent	12052.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 2	Tunnel Walkers	24105.6	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-2					
Bouldin I-Central - 3	Dozer Operator	1018	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 3	General Foreman	509	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 3	Grader Operator	1018	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 3	Operator G4 Grade Check	509	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 3	Scraper Operator	2036	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-3					
Bouldin I-Central - 4	Laborer G2 General	19195.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 4	Operating Engineer	6398.4	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 4	Operator G2 Plant Operator	12796.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 4	Operator G3 BH Loader	6398.4	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 4	Operator G3a Crane	6398.4	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 4	Operator G4 Grade Check	6398.4	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 4	Operator G4 Heavy Duty Mechanic	6398.4	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 4	Teamster G1 Hwy	6398.4	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 4	Teamster G2 Hwy	6398.4	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-4					
Bouldin I-Central - 5	Carpenter	863	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Carpenter Foreman	107.9	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Compactor Operator	226.9	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Dozer Operator	113.5	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Flagger	226.9	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	General Foreman	113.5	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	General Laborer	442.7	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Grade Setter / Checker	113.5	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Grader Operator	113.5	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Laborer G2 General	9898.1	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Loader Operator	113.5	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Operating Engineer	3298.7	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Operator G2 Plant Operator	6597.4	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Operator G3 BH Loader	3298.7	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Operator G3a Crane	3298.7	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Operator G4 Grade Check	3298.7	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Operator G4 Heavy Duty Mechanic	3298.7	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Teamster G1 Hwy	3298.7	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Teamster G2 Hwy	3298.7	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 5	Truck Driver	431.5	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-5					
Bouldin I-Central - 6	Compactor Operator	5666	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 6	Dozer Operator	5666	10	Lodi to/from Bouldin Island Shaft	14

Bouldin I-Central - 6	Grade Setter / Checker	5666	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 6	Grader Operator	5666	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 6	Truck Driver	5666	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-6					
Bouldin I-Central - 7	Carpenter	662.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 7	Carpenter Foreman	100.4	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 7	General Laborer	375.7	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 7	Hyd Crane Operator	210.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 7	Iron Worker	1748.4	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 7	Iron Worker Foreman	174.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 7	Truck Driver	260.4	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-7					
Bouldin I-Central - 8	Carpenter	654.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 8	Carpenter Foreman	163.6	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 8	Excavator Operator	9.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 8	General Laborer	15.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 8	Lead Miner	9.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 8	Loader Operator	9.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 8	Miner	9.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 8	Shifter	9.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 8	Truck Driver	146.3	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-8					
Bouldin I-Central - 9	Bullgang Foreman	15.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Bullgang Laborer	30.6	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Carpenter	315.6	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Carpenter Foreman	78.9	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Crane Oiler	1038.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Excavator Operator	378.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Flat Truck Driver	15.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	General Foreman	1590.1	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	General Laborer	7644.9	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Hyd Crane Operator	1418.1	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Grade Setter / Checker	187.86	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Grader Operator	187.86	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Iron Worker	8165.5	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Iron Worker Foreman	1346.4	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Lead Miner	519.4	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Loader Operator	1070.7	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Mechanic Welder	1054.1	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Miner	4155.1	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Shaft Crane Operator	1038.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Shifter	1558.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 9	Truck Driver	592.1	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-9					
Bouldin I-Central - 10	Shaft Crane Operator	677.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 10	Toplander	677.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 10	Crane Oiler	677.2	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-10					
Bouldin I-Central - 11	Bottomlander	222.9	24	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 11	Hyd Crane Operator	266.5	24	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 11	Iron Worker	2395.1	24	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 11	Iron Worker Foreman	299.4	24	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 11	Lead Miner	47.5	24	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 11	Miner	978.8	24	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 11	Shaft Crane Operator	222.9	24	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 11	Shifter	346.9	24	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 11	Toplander	529	24	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-11					
Bouldin I-Central - 12	Hyd Crane Operator	95.7	24	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 12	Lead Miner	95.7	24	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 12	Miner	765.2	24	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 12	Shifter	95.7	24	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-12					
Bouldin I-Central - 13	Crane Oiler	88.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 13	Electrician	20.4	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 13	Iron Worker	543.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 13	Iron Worker Foreman	67.9	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 13	Lead Miner	20.4	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 13	Mechanic Welder	20.4	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 13	Miner	298.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 13	Shaft Crane Operator	88.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 13	Shifter	88.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 13	Toplander	88.3	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-13					
Bouldin I-Central - 14	Bottomlander	292.1	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 14	Crane Oiler	292.1	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 14	Iron Worker	2336.6	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 14	Iron Worker Foreman	292.1	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 14	Shaft Crane Operator	292.1	10	Lodi to/from Bouldin Island Shaft	14

Bouldin I-Central - 14	Toplander	292.1	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-14					
Bouldin I-Central - 15	Bottomlander	390.6	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 15	Concrete Pump Operator	2301	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 15	Crane Oiler	613.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 15	Electrician	93.9	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 15	Lead Miner	663	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 15	Mechanic Welder	432.9	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 15	Miner	3683.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 15	Shaft Crane Operator	663	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 15	Shifter	663	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 15	Toplander	663	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 15	Truck Driver	12369	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-15					
Bouldin I-Central - 16	Bullgang Foreman	149.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 16	Bullgang Laborer	896	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 16	Crane Oiler	149.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 16	Electrician	149.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 16	Hyd Crane Operator	149.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 16	Master Mechanic	448	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 16	Mechanic / Welder	149.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 16	Shaft Crane Operator	149.3	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-16					
Bouldin I-Central - 17	Bottomlander	1073.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Conveyor Belt Man	933.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Crane Oiler	1073.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Electrician	3406.7	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Hyd Crane Operator	840	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Lead Miner	2380	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Mechanic / Welder	3406.7	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Miner	15960	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Segment Carrier Operator	2240	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Shaft Crane Operator	1073.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Shifter	2380	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	ST2G Mucker Operator	373.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	TBM Operator	2613.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 17	Toplander	1073.3	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-17					
Bouldin I-Central - 18	Bottomlander	43273.1	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Bullgang Foreman	36791.1	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Bullgang Laborer	123401.6	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Conveyor Belt Man	26312.5	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Crane Oiler	43273.1	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Electrician	50653.9	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Fanline Carrier Operator	24341.3	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Flat Truck Driver	2144.8	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Hyd Crane Operator	23762.7	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Lead Miner	26312.5	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Loader Operator	19042	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Man Transport Truck Operator	24909.7	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Master Mechanic	12170	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Mechanic / Welder	74705.9	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Miner	200345.6	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Segment Carrier Operator	165349.3	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Shaft Crane Operator	43273.1	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Shifter	26312.5	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	TBM Operator	52625.1	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Toplander	43273.1	20	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 18	Utility Truck Operator	24909.7	20	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-18					
Bouldin I-Central - 19	Bottomlander	1236.7	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Bullgang Foreman	93.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Bullgang Laborer	560	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Crane Oiler	760.7	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Electrician	1997.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Forklift Operator	569.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Hyd Crane Operator	760.7	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Lead Miner	1236.7	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Mechanic / Welder	1997.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Miner	5805.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Shaft Crane Operator	13330	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Shifter	1236.7	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Toplander	1236.7	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 19	Utility Truck Operator	429.3	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-19					
Bouldin I-Central - 20	Bottomlander	429.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Electrician	429.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Forklift Operator	429.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Lead Miner	429.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Mechanic / Welder	429.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Miner	2576	10	Lodi to/from Bouldin Island Shaft	14

Bouldin I-Central - 20	Shaft Crane Operator	429.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Shifter	429.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Toplander	429.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 20	Utility Truck Operator	429.3	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-20					
Bouldin I-Central - 21	Laborer G2 General	27.9	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 21	OPERATING ENGINEER FOREMAN	27.9	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 21	Operator G2 Finish Blade	27.9	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 21	Operator G4 Dozer & Push Cat	27.9	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 21	Operator G4 Grade Check	27.9	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 21	Operator G4 Scraper	55.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 21	Operator G7 Roller, Compactor	27.9	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-21					
Bouldin I-Central - 22	Laborer G2 Concrete Laborer	781.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Laborer G2 General	269.7	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Laborer G3 Flagman	911.4	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	OPERATING ENGINEER FOREMAN	665	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Teamster G2 Hwy ED 6-8cy, Water<7	6779.7	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Operator G2 Excavator 3.5 to 7.0 cy	1562.4	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Operator G2 Finish Blade	9.3	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Operator G3 Loader >4cy	530.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Operator G4 Dozer & Push Cat	967.2	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Operator G4 Scraper	892.8	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Operator G6 Tractor	306.9	10	Lodi to/from Bouldin Island Shaft	14
Bouldin I-Central - 22	Teamster G4 ED 25-65 Cy	260.4	10	Lodi to/from Bouldin Island Shaft	14
TOTAL Bouldin I-Central-22					

Marine Inventory for Bouldin Island - Central Tunnel Shaft
Options 7A, 7B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Bouldin Island - Central Tunnel Shaft
Options 7A, 7B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Bouldin Island - Central Tunnel Shaft
Options 7A, 7B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Bouldin Island - Central Tunnel Shaft
Options 7A, 7B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
Bouldin I-Central - 1	338	1925	0.2			245864.1	128				
Bouldin I-Central - 3	0	19	0.0	256575.8	13504						
Bouldin I-Central - 6		250				249318.9	997				
Bouldin I-Central - 8		18		607.4	34						
Bouldin I-Central - 9		85		12983.8	153						
Bouldin I-Central - 10		66		74527.4	1129						
Bouldin I-Central - 17		165		1829374	11087						
Bouldin I-Central - 22	13.95	141	0.1								

**Demolition Assumptions for Bouldin Island - Central Tunnel Shaft
Options 7A, 7B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Bacon Island and Mandeville Island Access Road and New Overpass in Holt
Options 1A, 1B, 5A, 5B, 7A, 7B, 9A, 9B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Lower Jones T Access Roadway Excavation	BI_MI Access -1	4/27/2026	5/14/2026	14	5	10
Lower Jones T Access Embankment	BI_MI Access -2	5/15/2026	6/3/2026	14	5	10
Lower Jones T Access Culvert Pipe	BI_MI Access -3	6/4/2026	6/9/2026	5	5	10
Lower Jones T Access Subdrain System	BI_MI Access -4	6/10/2026	7/31/2026	38	5	10
Lower Jones T Access Road Base and K Rails	BI_MI Access -5	8/3/2026	9/21/2026	38	5	10
Lower Jones T Access Overpass Roadway Excavation	BI_MI Access -6	9/21/2026	9/22/2026	2	2	10
Lower Jones T Access Overpass Embankment	BI_MI Access -7	9/23/2026	9/28/2026	5	5	10
Lower Jones T Access Overpass New Bridge/Overpass	BI_MI Access -8	9/23/2026	10/20/2026	20	5	10
Lower Jones T Access Overpass Culvert Pipe	BI_MI Access -9	9/29/2026	9/29/2026	1	1	10
Lower Jones T Access Overpass Subdrain System	BI_MI Access -10	9/30/2026	10/2/2026	3	3	10
Lower Jones T Access Overpass Road Base	BI_MI Access -11	10/5/2026	10/7/2026	3	3	10
Lower Jones T Access Paving and K Rails	BI_MI Access -12	10/8/2026	10/12/2026	5	5	10
Bacon I & Mandeville I Access Roadway Excavation	BI_MI Access -13	10/8/2026	10/20/2026	9	5	10
Bacon I & Mandeville I Access Embankment	BI_MI Access -14	10/29/2026	11/13/2026	12	5	10
Bacon I & Mandeville I Access Culvert Pipe	BI_MI Access -15	11/16/2026	11/18/2026	3	3	10
Bacon I & Mandeville I Access Subdrain System	BI_MI Access -16	11/19/2026	1/5/2027	34	5	10
Bacon I & Mandeville I Access Road Base	BI_MI Access -17	1/6/2027	2/3/2027	21	5	10
Mandeville I Access Roadway Excavation & Bridge Removal	BI_MI Access -18	10/3/2027	11/5/2027	20	5	10
Mandeville I Access New Bridge	BI_MI Access -19	10/13/2027	3/30/2028	121	5	10
Mandeville I Access Embankment	BI_MI Access -20	11/8/2027	11/22/2027	9	5	10
Mandeville I Access Culvert Pipe	BI_MI Access -21	11/23/2027	11/24/2027	2	2	10
Mandeville I Access Subdrain System	BI_MI Access -22	11/25/2027	12/22/2027	20	5	10
Mandeville I Access Road Base	BI_MI Access -23	3/21/2028	4/5/2028	12	5	10
Lower Jones T 12-month Maintenance #1	BI_MI Access -24	4/1/2028	4/15/2028	9	5	10
Bacon I 12-month Maintenance #1	BI_MI Access -25	4/1/2028	4/15/2028	9	5	10
Lower Jones T 12-month Maintenance #2	BI_MI Access -26	4/1/2029	4/15/2029	9	5	10
Bacon I & Mandeville I 12-month Maintenance #2	BI_MI Access -27	4/1/2029	4/15/2029	9	5	10
Lower Jones T Overlay #1	BI_MI Access -28	6/13/2030	6/14/2030	2	2	10
Lower Jones T Overlay #2	BI_MI Access -29	8/7/2037	8/11/2037	5	5	10
Lower Jones Tract Access - Paved and Gravel Roads - Acres		22				
Bacon I & Mandeville I Access - Gravel Road - Acres		15				
Mandeville I Access - Gravel Road - Acres		9.5				

Construction Schedule for Mandeville Island - Central Tunnel Shaft						
Options 7A, 7B						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Clear and Grub	MI-Central - 1	2/27/2030	3/19/2030	15	5	10
Ground Improvement	MI-Central - 2	4/10/2030	5/14/2030	25	5	10
Raise Shaft Pad	MI-Central - 3	5/15/2030	5/13/2031	261	5	10
Excavate, Set Strips, & Place Guide Wall	MI-Central - 4	5/14/2031	5/30/2031	9	5	10
Place Guide Walls Concrete	MI-Central - 5	6/2/2031	6/2/2031	1	1	10
Excavate Slurry Wall & Place Concrete & Rebar	MI-Central - 6	6/3/2031	8/18/2031	54	7	24
Slurry Wall including Strip Forms and Place Rebar & Top Beam	MI-Central - 7	8/19/2031	8/22/2031	5	7	24
Excavate Shaft	MI-Central - 8	8/25/2031	10/1/2031	38	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	MI-Central - 9	10/2/2031	10/15/2031	14	7	24
Dewater Shaft	MI-Central - 10	10/16/2031	10/22/2031	7	7	24
Place TBM Cradle Rebar and Cradle Pour	MI-Central - 11	10/23/2031	10/30/2031	6	5	10
Breakout Slurry Wall for TBM	MI-Central - 12	10/31/2031	11/26/2031	19	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	MI-Central - 13	10/31/2031	2/19/2032	80	5	10
Place Shaft Cover	MI-Central - 14	2/19/2032	2/27/2032	7	5	10
Total Site Acres	14					

**Offroad Equipment (Fossil Fuel) Inventory for Mandeville Island - Central Tunnel Shaft
Options 7A, 7B**

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
Mi-Central - 1	CAT D8 Dozer	Crawler Tractor	28.86	15	2	Diesel Tier 4 or Hybrid Diesel	179	0.43		
Mi-Central - 1	CAT Grader 16H - 16' Blade	Grader	28.86	15	2	Diesel	285	0.41		
Mi-Central - 1	623G Scraper Elevate 21 CY	Scraper	57.72	15	4	Diesel	359	0.48		
Mi-Central - 2	Air Compressor 375 CFM	Air Compressor	225	25	9	Diesel Tier 4	122	0.48		
Mi-Central - 2	Case 590 SupN Loader	Rubber Tired Loaders	225	25	9	Diesel	160	0.29		
Mi-Central - 2	DMM Deep Soil Mixer	Bore Drill Rig	225	25	9	Diesel	808	0.5		
Mi-Central - 2	DMM Grout Mix Plant	Other Industrial Equipmen	225	25	9	Diesel	500	0.34		
Mi-Central - 2	Grove RT Crane 30T	Crane	25	25	1	Diesel Tier 4	158	0.74		
Mi-Central - 2	Portable 90 Kw Diesel	Generators	495.2	25	20	Diesel	110	0.36		
Mi-Central - 2	Water Pump 4" Electric	Pumps	495.2	25	20	Diesel	10	0.74		
Mi-Central - 3	CAT CB-634D Vibratory 84"	Rollers	2028.5	261	8	Diesel	145	0.38		
Mi-Central - 3	CAT Grader 16H	Graders	2028.5	261	8	Diesel	285	0.41		
Mi-Central - 4	CAT Hyd Excavator 1CY	Excavator	5.4	9	1	Diesel	138	0.38		
Mi-Central - 4	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	5.4	9	1	Diesel or Hybrid	130	0.36		
Mi-Central - 6	1600 CFM Compressor Diesel	Air Compressor	201.6	54	4	Diesel Tier 4	540	0.48		
Mi-Central - 6	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	413.6	54	8	Diesel	138	0.38		
Mi-Central - 6	CAT Hyd Excavator 1CY	Excavator	212	54	4	Diesel	350	0.29		
Mi-Central - 6	Hydraulic 55 Ton Crane	Crane	403.2	54	7	Diesel or Hybrid	130	0.36		
Mi-Central - 6	Hydraulic Excavator to 3.5 tons = Kobelco SK485	Excavator	212	54	4	Diesel	345	0.38		
Mi-Central - 6	Manitowoc 777 200 Ton Crane	Crane	403.2	54	7	Diesel	8	0.56		
Mi-Central - 6	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	201.6	54	4	Diesel	500	0.74		
Mi-Central - 6	Slurry Wall Techniwell	Pumps	201.6	54	4	Diesel	760	0.29		
Mi-Central - 7	250 CFM Compressor Diesel	Air Compressor	3	5	0.6	Diesel Tier 3	75	0.48		
Mi-Central - 8	Manitowoc 777 200 Ton Crane	Crane	207.9	38	5	Diesel	760	0.29		
Mi-Central - 9	Manitowoc 777 200 Ton Crane	Crane	99.9	14	7	Diesel	760	0.29		
Mi-Central - 9	Hydraulic 40 Ton Crane	Crane	32.4	14	2	Diesel	300	0.29		
Mi-Central - 9	Hydraulic 25 Ton Crane	Crane	68.6	14	5	Diesel	100	0.29		
Mi-Central - 10	Dewater Pump 6"	Pump	360	7	51	Diesel	50	0.74		
Mi-Central - 10	150 KW Diesel Generator	Generator	90	7	13	Diesel Tier 4	183	0.74		
Mi-Central - 10	Hydraulic 15 Ton Crane	Crane	90	7	13	Diesel	100	0.29		
Mi-Central - 11	Manitowoc 777 200 Ton Crane	Crane	31.7	6	5	Diesel	760	0.29		
Mi-Central - 11	250 CFM Compressor Diesel	Air Compressor	7.4	6	1	Diesel Tier 3	75	0.48		
Mi-Central - 11	Trailer Conc Pump 100 CY HR	Pump	7.4	6	1	Diesel	200	0.74		
Mi-Central - 12	250 CFM Compressor Diesel	Air Compressor	106.8	19	6	Diesel Tier 3	75	0.48		
Mi-Central - 12	Manitowoc 777 200 Ton Crane	Crane	106.8	19	6	Diesel	760	0.29		
Mi-Central - 13	250 CFM Compressor Diesel	Air Compressor	630	80	8	Diesel	85	0.29		
Mi-Central - 13	Hydraulic 9 Ton Crane	Crane	238.3	80	3	Diesel Tier 3	75	0.48		
Mi-Central - 13	Manitowoc 777 200 Ton Crane	Crane	91.8	80	1	Diesel	200	0.74		
Mi-Central - 13	Manitowoc 999-275 Ton Crane	Crane	115.5	80	1	Diesel	760	0.29		
Mi-Central - 13	Trailer Conc Pump 100 CY HR	Pump	289	80	4	Diesel	900	0.29		
Mi-Central - 14	CAT Forklift 5,500 LB	Aerial Lift	45	7	6	Diesel	85	0.29		
Mi-Central - 14	Hydraulic 40 Ton Crane	Crane	45	7	6	Diesel	300	0.29		
Mi-Central - 14	Hydraulic 9 Ton Crane	Crane	45	7	6	Diesel	63	0.31		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Mandeville Island - Central Tunnel Shaft
Options 7A, 7B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
MI-Central - 13	Axial Fan 114,000 CFM	54	80	50	34
MI-Central - 13	Electric Welder 400 AMP	184.3	80	15	35

Vehicle Inventory for Mandeville Island - Central Tunnel Shaft
Options 7A, 7B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs: office)	# day	Vehicle Hours	Hours/trip	# of Vehicles Trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
Mi-Central - 1	Truck, Flatbed, 10T, Hwy	Grader and Scraper to and from Stockton	2	3	0.8	4	2.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 1	Truck, Flatbed, 10T, Hwy	Crawler Tractor from Stockton	1	1	0.8	1	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 1	Pickup 1/2T 2 WD	Materials from Stockton	15	29	0.8	37	2	Mandeville I Shaft to/from Stockton	23	46	Hybrid Gasoline	
Mi-Central - 2	Pickup 1/2T 2 WD	Materials from Stockton	25	495.2	0.8	646	26	Mandeville I Shaft to/from Stockton	23	46	Hybrid Gasoline	
Mi-Central - 2	Truck Flatbed 4 T Highway	Materials from Stockton	25	495.2	0.8	646	26	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 2	Mechanic Truck	Materials from Stockton	25	495.2	0.8	646	26	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 2	Truck, Flatbed, 10T, Hwy	Crane, Trencher, & Other Equipment to and from Stockton	2	82	0.8	107	53.5	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 2	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement	25	289.3	2.3	124	5	Mandeville Island Shaft to/from Sacramento	70	140	Diesel	
Mi-Central - 2	Pickup 1/2T 2 WD	Materials from Stockton	25	6	0.8	8	1.0	Mandeville I Shaft to/from Stockton	23	46	Hybrid Gasoline	
Mi-Central - 2	Pickup 1/2T 2 WD	Materials from Stockton	25	29	0.8	37	1.49	Mandeville I Shaft to/from Stockton	23	46	Hybrid Gasoline	
Mi-Central - 3	Highway Dump Truck 18 CY	Materials from Stockton	261	2028.5	0.8	2646	10	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 3	Truck 'End Dump' 16-20cy Hwy	RTM Material in Covered Trucks from Twin Cities Complex	261	11109	1.9	5951	23	Mandeville I Shaft to/from Twin Cities Complex	56	112	Diesel	
Mi-Central - 3	Truck, Flatbed, 10T, Hwy	Grader and Roller to and from Stockton	2	3	0.8	4	2.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 3	Truck, Flatbed, 10T, Hwy	Crawler Tractor to Stockton	1	1	0.8	1	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 3	Pickup 1/2T 2 WD	Materials from Stockton	261	29	0.8	37	0.14	Mandeville I Shaft to/from Stockton	23	46	Hybrid Gasoline	
Mi-Central - 4	Truck, Flatbed, 10T, Hwy	Excavator to and from Stockton	2	2	0.8	2	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 4	Truck, Flatbed, 10T, Hwy	Loader from Stockton	1	1	0.8	1	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 4	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	9	2	1.6	1	0.1	Mandeville I Shaft to/from Livermore	48	96	Diesel	
Mi-Central - 5	Concrete Transit Mix Truck 12cy	Concrete from Bacon Island	1	6	0.3	21	21	Mandeville I Shaft to/from Bacon Island	8	16	Diesel	
Mi-Central - 5	Highway Dump Truck 18 CY	Cement, Aggregate, and Sand from Stockton	1	10	0.8	14	14	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 5	Highway Dump Truck 18 CY	Flyash from Vernalis	1	1	1.7	1	1	Mandeville I Shaft to/from Vernalis	50	100	Diesel	
Mi-Central - 6	Concrete Transit Mix Truck 12cy	Concrete from Bacon Island	54	142	0.3	533	10	Mandeville I Shaft to/from Bacon Island	8	16	Diesel	
Mi-Central - 6	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	54	37	1.6	23	0.4	Mandeville I Shaft to/from Livermore	48	96	Diesel	
Mi-Central - 6	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	54	411	2.3	176	3	Mandeville I Shaft to/from Sacramento	70	140	Diesel	
Mi-Central - 6	Truck, Flatbed, 10T, Hwy	Crane and Other Equipment to and from Stockton	2	3	0.8	4	2.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 6	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	1	0.8	1	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 6	Highway Dump Truck 18 CY	Cement, Aggregate, and Sand from Stockton	54	258	0.8	337	6	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 6	Highway Dump Truck 18 CY	Flyash from Vernalis	54	19	1.7	11	0	Mandeville I Shaft to/from Vernalis	50	100	Diesel	
Mi-Central - 7	Truck, Flatbed, 10T, Hwy	Loader to Stockton	1	1	0.8	1	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 7	Concrete Transit Mix Truck 12cy	Concrete from Bacon Island	5	3	0.3	10	2	Mandeville I Shaft to/from Bacon Island	8	16	Diesel	
Mi-Central - 7	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	5	2	1.6	1	0.2	Mandeville I Shaft to/from Livermore	48	96	Diesel	
Mi-Central - 7	Highway Dump Truck 18 CY	Cement, Aggregate, and Sand from Stockton	5	5	0.8	7	1	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 7	Highway Dump Truck 18 CY	Flyash from Vernalis	5	1	1.7	0	0	Mandeville I Shaft to/from Vernalis	50	100	Diesel	
Mi-Central - 9	Truck Flatbed 4 T Highway	Rebar from Livermore	14	11	1.6	7	1	Mandeville I Shaft to/from Livermore	48	96	Diesel	
Mi-Central - 9	Truck, Flatbed, 10T, Hwy	Cranes to and from Stockton	2	3	0.8	4	2.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 9	Concrete Transit Mix Truck 12cy	Concrete from Bacon Island	14	116	0.3	436	31	Mandeville I Shaft to/from Bacon Island	8	16	Diesel	
Mi-Central - 9	Highway Dump Truck 18 CY	Cement, Aggregate, and Sand from Stockton	14	258	0.8	337	24	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 9	Highway Dump Truck 18 CY	Flyash from Vernalis	14	19	1.7	11	1	Mandeville I Shaft to/from Vernalis	50	100	Diesel	
Mi-Central - 10	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	2	0.8	2	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 11	Truck Flatbed 4 T Highway	Rebar from Livermore	6	2	1.6	1	0.2	Mandeville I Shaft to/from Livermore	48	96	Diesel	
Mi-Central - 11	Concrete Transit Mix Truck 12cy	Concrete from Bacon Island	6	9	0.3	32	5	Mandeville I Shaft to/from Bacon Island	8	16	Diesel	
Mi-Central - 11	Highway Dump Truck 18 CY	Cement, Aggregate, and Sand from Stockton	6	16	0.8	20	3	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 11	Highway Dump Truck 18 CY	Flyash from Vernalis	6	1	1.7	1	0	Mandeville I Shaft to/from Vernalis	50	100	Diesel	
Mi-Central - 12	Truck Flatbed 4 T Highway	Rebar from Livermore	19	3	1.6	2	0.1	Mandeville I Shaft to/from Livermore	48	96	Diesel	
Mi-Central - 13	Concrete Transit Mix Truck 12cy	Concrete from Bacon Island	80	88	0.3	329	4	Mandeville I Shaft to/from Bacon Island	8	16	Diesel	
Mi-Central - 13	Truck, Flatbed, 10T, Hwy	Crane to Stockton	2	1	0.8	1	0.5	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 13	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	2	0.8	2	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 13	Highway Dump Truck 18 CY	Cement, Aggregate, and Sand from Stockton	80	159	0.8	208	3	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 13	Highway Dump Truck 18 CY	Flyash from Vernalis	80	12	1.7	7	0	Mandeville I Shaft to/from Vernalis	50	100	Diesel	
Mi-Central - 14	Highway Flatbed 10 Ton	Materials from Stockton	7	46	0.8	59	8	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Mi-Central - 14	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	2	0.8	2	1.0	Mandeville I Shaft to/from Stockton	23	46	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site												
Miles On-Site												
Mi-Central - 4	CAT 730 Rear Dump	Dumper	9	17	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		83	Diesel or Hybrid	
Mi-Central - 6	CAT 730 Rear Dump	Dumper	54	239.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1149	Diesel or Hybrid	
Mi-Central - 6	Articulated Rear Dump 22 CY/CAT 730	Dumper	54	201.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1008	Diesel or Hybrid	
Mi-Central - 6	Concrete Pump Truck	Off-Highway Truck	54	403.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2016	Diesel	

Employees Required to Mandeville Island - Central Tunnel Shaft
Options 7A, 7B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
MI-Central - 1	General Foreman	14.43	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 1	Dozer Operator	28.86	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 1	Grader Operator	28.86	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 1	Operator G4 Grade Check	14.43	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 1	Scraper Operator	57.72	10		Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-1						
MI-Central - 2	Laborer G2 General	1485.5	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 2	Operator G3a Crane	495.2	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 2	Operator G3 BH Loader	495.2	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 2	Operating Engineer	495.2	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 2	Operator G4 Grade Check	495.2	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 2	Operator G4 Heavy Duty Mechanic	495.2	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 2	Operator G2 Plant Operator	495.2	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 2	Teamster G1 Hwy	495.2	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 2	Teamster G2 Hwy	495.2	10		Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-2						
MI-Central - 3	Compactor Operator	2028.5	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 3	Dozer Operator	2028.5	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 3	Grade Setter / Checker	2028.5	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 3	Grader Operator	2028.5	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 3	Truck Driver	2028.5	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 3	Water Truck Highway Driver	2028.5	10		Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-3						
MI-Central - 4	Carpenter	383.9	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 4	Carpenter Foreman	96	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 4	Excavator Operator	5.4	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 4	Lead Miner	5.4	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 4	Loader Operator	5.4	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 4	Miner	5.4	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 4	Shifter	5.4	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 4	Truck Driver	16.1	10		Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-4						
MI-Central - 5	General Laborer	9.8	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 5	Carpenter	19.6	10		Stockton to/from Mandeville I Shaft	23
MI-Central - 5	Carpenter Foreman	4.9	10		Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-5						
MI-Central - 6	Crane Oiler	403.2	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	General Foreman	615.2	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	General Laborer	2853.5	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Hyd Crane Operator	403.2	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Iron Worker	2016	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Iron Worker Foreman	403.2	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Lead Miner	201.6	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Loader Operator	413.6	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Mechanic Welder	403.2	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Miner	1612.8	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Shaft Crane Operator	201.6	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Slurry Wall Consultant	201.6	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 6	Truck Driver	201.6	24		Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-6						
MI-Central - 7	Carpenter	29.9	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 7	Carpenter Foreman	7.5	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 7	General Laborer	26.4	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 7	Iron Worker	45.7	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 7	Iron Worker Foreman	11.3	24		Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-7						
MI-Central - 8	Shaft Crane Operator	207.9	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 8	Toplander	207.9	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 8	Crane Oiler	207.9	24		Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-8						
MI-Central - 9	Bottomlander	99.9	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 9	Hyd Crane Operator	101.2	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 9	Iron Worker	1058.4	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 9	Iron Worker Foreman	132.3	24		Stockton to/from Mandeville I Shaft	23
MI-Central - 9	Lead Miner	17.2	24		Stockton to/from Mandeville I Shaft	23

MI-Central - 9	Miner	402.3	24	Stockton to/from Mandeville I Shaft	23
MI-Central - 9	Shifter	149.5	24	Stockton to/from Mandeville I Shaft	23
MI-Central - 9	Toplander	229.5	24	Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-9					
MI-Central - 10	Shifter	90	24	Stockton to/from Mandeville I Shaft	23
MI-Central - 10	Lead Miner	90	24	Stockton to/from Mandeville I Shaft	23
MI-Central - 10	Miner	720	24	Stockton to/from Mandeville I Shaft	23
MI-Central - 10	Hyd Crane Operator	90	24	Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-10					
MI-Central - 11	Crane Oiler	31.7	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Electrician	7.4	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Iron Worker	194.4	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Iron Worker Foreman	24.3	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Lead Miner	7.4	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Mechanic Welder	7.4	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Miner	107.6	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Shaft Crane Operator	31.7	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Shifter	31.7	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 11	Toplander	31.7	10	Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-11					
MI-Central - 12	Bottomlander	106.8	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 12	Crane Oiler	106.8	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 12	Iron Worker	854.4	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 12	Iron Worker Foreman	106.8	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 12	Shaft Crane Operator	106.8	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 12	Toplander	106.8	10	Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-12					
MI-Central - 13	Bottomlander	92	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Concrete Pump Operator	57.9	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Crane Oiler	161	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Electrician	238.4	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Hyd Crane Operator	238.3	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Lead Miner	630	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Mechanic / Welder	756.4	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Miner	4212.7	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Shaft Crane Operator	207	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Shifter	630	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 13	Toplander	207	10	Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-13					
MI-Central - 14	Bullgang Foreman	45	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 14	Bullgang Laborer	90	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 14	Mechanic / Welder	45	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 14	Hyd Crane Operator	90	10	Stockton to/from Mandeville I Shaft	23
MI-Central - 14	Flat Truck Driver	45	10	Stockton to/from Mandeville I Shaft	23
TOTAL MI-Central-14					

Marine Inventory for Mandeville Island - Central Tunnel Shaft
Options 7A, 7B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Mandeville Island - Central Tunnel Shaft
Options 7A, 7B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

Helicopter Inventory for Mandeville Island - Central Tunnel Shaft
Options 7A, 7B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Mandeville Island - Central Tunnel Shaft
Options 7A, 7B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
MI-Central - 1	14	15	1	7274	485						
MI-Central - 3		261				89253.5	342				
MI-Central - 4		9		352.8	39						
MI-Central - 6		54		5055.3	94						
MI-Central - 8		38		22878	602						

**Demolition Assumptions for Mandeville Island - Central Tunnel Shaft
Options 7A, 7B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Bacon Island - Central Tunnel Shaft						
Options 7A, 7B						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Concrete Batch Plant	BI-Central - 1	4/30/2031	5/20/1931	15	5	10
Clear and Grub	BI-Central - 2	5/14/2031	5/20/2031	5	5	10
Ground Improvement	BI-Central - 3	6/2/2031	11/11/2031	117	5	10
Raise Shaft Pad	BI-Central - 4	11/12/2031	9/2/2032	190	5	10
Excavate, Set Strips, & Place Guide Wall	BI-Central - 5	9/3/2032	9/20/2032	14	5	10
Place Guide Walls Concrete	BI-Central - 6	9/21/2032	9/22/2032	1	1	10
Excavate Slurry Wall & Place Concrete & Rebar	BI-Central - 7	9/23/2032	11/1/2032	40	7	24
Slurry Wall including Strip Forms and Place Rebar & Top Beam	BI-Central - 8	11/2/2032	12/14/2032	43	7	24
Excavate Shaft	BI-Central - 9	12/15/2032	1/27/2033	47	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	BI-Central - 10	1/28/2033	2/10/2033	14	7	24
Dewater Shaft	BI-Central - 11	2/11/2033	2/17/2033	7	7	24
Place TBM Cradle Rebar and Cradle Pour	BI-Central - 12	2/18/2033	2/25/2033	6	5	10
Breakout Slurry Wall for TBM	BI-Central - 13	2/28/2033	3/24/2033	19	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	BI-Central - 14	3/25/2033	5/19/2033	40	5	10
Place Shaft Cover	BI-Central - 15	11/7/2035	11/15/2035	7	5	10
Complete Shaft Maintenance	BI-Central - 16	3/23/2034	4/21/2034	22	5	10
Batch Plant Operations	BI-Central - 17	5/20/2031	4/11/2033	500	5	10
Batch Plant Demobilization	BI-Central - 18	4/28/2033	5/4/2033	5	5	10
Total Site Acres	15					

Offroad Equipment (Fossil Fuel) Inventory for Bacon Island - Central Tunnel Shaft
Options 7A, 7B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
BI-Central - 1	Air Compressor 185 cfm	Air Compressor	400	15	27	Diesel Tier 4	49	0.48		
BI-Central - 1	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lift	200	15	13	Diesel	75	0.31		
BI-Central - 1	Grove RT Crane 80T, 275hp	Crane	400	15	27	Diesel	275	0.29		
BI-Central - 1	Boom Truck, 12.5 Tn Boom	Crane	200	15	13	Diesel or Hybrid	100	0.29		
BI-Central - 2	CAT D8 Dozer	Crawler Tractor	46.44	5	9	Diesel Tier 4 or Hybrid Diesel	179	0.43		
BI-Central - 2	623G Scraper Elevate Z1 CY	Scaper	92.88	5	19	Diesel	359	0.48		
BI-Central - 2	CAT Grader 16H - 16' Blade	Grader	46.44	5	9	Diesel	285	0.41		
BI-Central - 3	Air Compressor 375 CFM	Air Compressor	936	117	8	Diesel Tier 4	122	0.48		
BI-Central - 3	Case 590 SupN Loader	Rubber Tired Loaders	936	117	8	Diesel	110	0.36		
BI-Central - 3	DMM Deep Soil Mixer	Bore Drill Rig	936	117	8	Diesel	479	0.5		
BI-Central - 3	DMM Grout Mtx Plant	Other Industrial Equipmen	936	117	8	Diesel	500	0.34		
BI-Central - 3	Grove RT Crane 30T	Crane	936	117	8	Diesel	160	0.29		
BI-Central - 3	Portable 90 Kw Diesel	Generators	117	117	1	Diesel Tier 4	158	0.74		
BI-Central - 3	Water Pump 4" Electric	Pumps	2052.5	117	18	Diesel	10	0.74		
BI-Central - 4	CAT CB-634D Vibratory 84"	Rollers	2707.1	190	14	Diesel	145	0.38		
BI-Central - 4	CAT Grader 16H	Graders	2707.1	190	14	Diesel	285	0.41		
BI-Central - 4	CAT D8 Dozer	Crawler Tractor	2707.1	190	14	Diesel	328	0.43		
BI-Central - 5	CAT Hyd Excavator 1CY	Excavator	5.4	14	0	Diesel	138	0.38		
BI-Central - 5	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	5.4	14	0	Diesel or Hybrid	130	0.36		
BI-Central - 7	1600 CFM Compressor Diesel	Air Compressor	201.6	40	5	Diesel Tier 4	540	0.48		
BI-Central - 7	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	201.6	40	5	Diesel or Hybrid	130	0.36		
BI-Central - 7	Hydraulic 55 Ton Crane	Crane	403.2	40	10	Diesel	350	0.29		
BI-Central - 7	Manitowoc 777 200 Ton Crane	Crane	403.2	40	10	Diesel	760	0.29		
BI-Central - 7	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	201.6	40	5	Diesel	8	0.56		
BI-Central - 7	Slurry Wall Techniwell	Pumps	201.6	40	5	Diesel	500	0.74		
BI-Central - 8	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	212	43	5	Diesel or Hybrid	130	0.36		
BI-Central - 8	250 CFM Compressor Diesel	Air Compressor	3	43	0.1	Diesel Tier 3	75	0.48		
BI-Central - 8	CAT Hyd Excavator 1CY	Excavator	212	43	4.9	Diesel	138	0.38		
BI-Central - 8	Hydraulic Excavator to 3.5 tons = Kobelco SK485LC' 2.75cy' 345 hp Excavator	Excavator	212	43	4.9	Diesel	345	0.38		
BI-Central - 9	Manitowoc 777 200 Ton Crane	Crane	202.5	47	4	Diesel	760	0.29		
BI-Central - 10	Manitowoc 777 200 Ton Crane	Crane	99.9	14	7	Diesel	760	0.29		
BI-Central - 10	Hydraulic 40 Ton Crane	Crane	32.4	14	2	Diesel	300	0.29		
BI-Central - 10	Hydraulic 25 Ton Crane	Crane	68.8	14	5	Diesel	100	0.29		
BI-Central - 11	Dewater Pump 6"	Pump	360	7	51	Diesel	50	0.74		
BI-Central - 11	150 KW Diesel Generator	Generator	90	7	13	Diesel Tier 4	183	0.74		
BI-Central - 11	Hydraulic 15 Ton Crane	Crane	90	7	13	Diesel	100	0.29		
BI-Central - 12	Manitowoc 777 200 Ton Crane	Crane	32	6	5	Diesel	760	0.29		
BI-Central - 12	250 CFM Compressor Diesel	Air Compressor	7.4	6	1	Diesel Tier 3	75	0.48		
BI-Central - 12	Trailer Conc Pump 100 CY HR	Pump	7.4	6	1	Diesel	200	0.74		
BI-Central - 13	250 CFM Compressor Diesel	Air Compressor	212	19	11	Diesel Tier 3	75	0.48		
BI-Central - 13	Manitowoc 777 200 Ton Crane	Crane	212	19	11	Diesel	760	0.29		
BI-Central - 14	250 CFM Compressor Diesel	Air Compressor	321.3	40	8	Diesel Tier 3	75	0.48		
BI-Central - 14	Trailer Conc Pump 100 CY HR	Pump	161.6	40	4	Diesel	200	0.74		
BI-Central - 14	Manitowoc 777 200 Ton Crane	Crane	91.8	40	2	Diesel	760	0.29		
BI-Central - 14	Manitowoc 999-275 Ton Crane	Crane	229.5	40	6	Diesel	900	0.29		
BI-Central - 15	Hydraulic 9 Ton Crane	Crane	36	22	2	Diesel	85	0.29		
BI-Central - 15	Hydraulic 40 Ton Crane	Crane	36	22	2	Diesel	300	0.29		
BI-Central - 15	CAT Forklift 5,500 LB	Aerial Lift	36	22	2	Diesel	63	0.31		
BI-Central - 18	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lift	80	5	16	Diesel	75	0.31		
BI-Central - 18	Grove RT Crane 80T, 275hp	Crane	80	5	16	Diesel	275	0.29		
BI-Central - 18	Boom Truck, 12.5 Tn Boom	Crane	40	5	8	Diesel or Hybrid	100	0.29		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Bacon Island - Central Tunnel Shaft
Options 7A, 7B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment	
BI-Central - 1	Electric Welder 400 AMP	400	15	15		400
BI-Central - 3	Water Pump, 4" Electrical, Submersible	2052.5	117		1	0.159
BI-Central - 18	Electric Welder 400 AMP	80	5	15		240

Vehicle Inventory for Bacon Island - Central Tunnel Shaft
Options 7A, 7B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/Trip	# of Vehicles Trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
Bi-Central - 1	Pickup, 1/2T, 2wd	Materials from Stockton	15	400	0.8	522	35	Bacon I Shaft to/from Stockton	23	46	Hybrid Gasoline	
Bi-Central - 1	Truck Flatbed 4 T Highway	Materials from Stockton	15	119	0.8	155	10	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 1	Truck Flatbed 4 T Highway	Batch Plant from Stockton	15	20	0.8	20	1	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 1	Truck, Flatbed, 10T, Hwy	Two Cranes to and from Stockton	2	2	0.8	2	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 2	Truck, Flatbed, 10T, Hwy	Scraper to and from Stockton	2	2	0.8	2	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 2	Truck, Flatbed, 10T, Hwy	Dozer and Grader from Stockton	1	2	0.8	2	2.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 3	Pickup 1/2T 2 WD	Materials from Stockton	117	2052.5	0.8	2677	23	Bacon I Shaft to/from Stockton	23	46	Hybrid Gasoline	
Bi-Central - 3	Truck Flatbed 4 T Highway	Materials from Stockton	117	2052.5	0.8	2677	23	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 3	Mechanic Truck	Materials from Stockton	117	2052.5	0.8	2677	23	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 3	Highway Dump Truck 18 CY	Cement from Stockton	117	460	0.8	600	5	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 3	Truck, Flatbed, 10T, Hwy	Crane, Trencher, Loader, & Other Equipment to and from Stockton	2	5	0.8	6	3.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 3	Highway Dump Truck 18 CY	Ground Treatment Cement from Stockton	117	394	0.8	514	4	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 4	Highway Dump Truck 18 CY	Materials from Stockton	190	2707.1	0.8	3531	19	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 4	Truck End Dump 16-20cy Hwy	RTM Material in Covered Trucks from Twin Cities Condale	190	14823	1.9	7941	42	Bacon I Shaft to/from Twin Cities Condale	56	112	Diesel	
Bi-Central - 4	Truck, Flatbed, 10T, Hwy	Roller to and from Stockton	2	2	0.8	2	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 4	Truck, Flatbed, 10T, Hwy	Dozer and Crawler Tractor to Stockton	1	2	0.8	2	2.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 5	Truck, Flatbed, 10T, Hwy	Excavator, Crane and Loader from Stockton	1	2	0.8	3	3.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 5	Truck Flatbed 4 T Highway	Rebar from Livermore	14	1	1.5	1	0	Bacon I Shaft to/from Livermore	44	88	Diesel	
Bi-Central - 5	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement from Bacon Island	14	0.7	0.0	21	2	Bacon I Shaft from Bacon I Concrete Batch Plant	1	2	Diesel	
Bi-Central - 5	Highway Dump Truck 18 CY	Cement, Aggregate, and Sand from Stockton	14	12	0.8	16	1	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 5	Highway Dump Truck 18 CY	Flyash from Vernalis	14	1	1.4	1	0	Bacon I Shaft to/from Vernalis	42	84	Diesel	
Bi-Central - 7	Truck Flatbed 4 T Highway	Rebar from Livermore	40	34	1.5	23	1	Bacon I Shaft to/from Livermore	44	88	Diesel	
Bi-Central - 7	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	1	0.8	1	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 7	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	2	0.8	2	2.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 7	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	40	393	2.2	176	4	Bacon I Shaft to/from Sacramento	67	134	Diesel	
Bi-Central - 7	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement from Bacon Island	40	17.8	0.0	533	13	Bacon I Shaft from Bacon I Concrete Batch Plant	1	2	Diesel	
Bi-Central - 7	Highway Dump Truck 18 CY	Cement, Aggregate, and Sand from Stockton	40	307	0.8	400	10	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 7	Highway Dump Truck 18 CY	Flyash from Vernalis	40	19	1.4	13	0	Bacon I Shaft to/from Vernalis	42	84	Diesel	
Bi-Central - 8	Truck, Flatbed, 10T, Hwy	Excavator and Loader to Stockton	1	2	0.8	2	2.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 8	Truck Flatbed 4 T Highway	Rebar from Livermore	43	1	1.5	1	0	Bacon I Shaft to/from Livermore	44	88	Diesel	
Bi-Central - 8	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement from Bacon Island	43	0.3	0.0	10	0	Bacon I Shaft from Bacon I Concrete Batch Plant	1	2	Diesel	
Bi-Central - 8	Highway Dump Truck 18 CY	Cement, Aggregate, and Sand from Stockton	43	6	0.8	8	0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 8	Highway Dump Truck 18 CY	Flyash from Vernalis	43	0	1.4	0	0	Bacon I Shaft to/from Vernalis	42	84	Diesel	
Bi-Central - 10	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	1	0.8	1	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 10	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	1	0.8	1	0.5	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 10	Truck Flatbed 4 T Highway	Rebar from Livermore	14	10	1.5	7	1	Bacon I Shaft to/from Livermore	44	88	Diesel	
Bi-Central - 10	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement from Bacon Island	14	14.5	0.0	436	31	Bacon I Shaft from Bacon I Concrete Batch Plant	1	2	Diesel	
Bi-Central - 10	Highway Dump Truck 18 CY	Cement, Aggregate, and Sand from Stockton	14	251	0.8	327	23	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 10	Highway Dump Truck 18 CY	Flyash from Vernalis	14	15	1.4	11	1	Bacon I Shaft to/from Vernalis	42	84	Diesel	
Bi-Central - 11	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	2	0.8	2	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 12	Truck Flatbed 4 T Highway	Rebar from Livermore	6	1	1.5	1	0.2	Bacon I Shaft to/from Livermore	44	88	Diesel	
Bi-Central - 12	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement from Bacon Island	6	1.1	0.0	32	5	Bacon I Shaft from Bacon I Concrete Batch Plant	1	2	Diesel	
Bi-Central - 12	Highway Dump Truck 18 CY	Cement, Aggregate, and Sand from Stockton	6	18	0.8	24	4	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 12	Highway Dump Truck 18 CY	Flyash from Vernalis	6	1	1.4	1	0	Bacon I Shaft to/from Vernalis	42	84	Diesel	
Bi-Central - 13	Truck Flatbed 4 T Highway	Rebar from Livermore	19	4	1.5	3	0.2	Bacon I Shaft to/from Livermore	44	88	Diesel	
Bi-Central - 14	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	1	0.8	1	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 14	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	2	0.8	2	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 14	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement from Bacon Island	40	8.3	0.0	249	6	Bacon I Shaft from Bacon I Concrete Batch Plant	1	2	Diesel	
Bi-Central - 14	Highway Dump Truck 18 CY	Cement, Aggregate, and Sand from Stockton	40	143	0.8	187	5	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 14	Highway Dump Truck 18 CY	Flyash from Vernalis	40	9	1.4	6	0	Bacon I Shaft to/from Vernalis	42	84	Diesel	
Bi-Central - 15	Highway Flatbed 10 Ton	Materials from Stockton	22	36	0.8	47	2	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 15	Truck, Flatbed, 10T, Hwy	Two Cranes to and from Stockton	2	3	0.8	4	2.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 15	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	1	0.8	1	1.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 16	Truck Flatbed 4 T Highway	Materials from Stockton	500	107	0.8	139	0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 16	Highway Dump Truck 18 CY	Cement from Stockton	500	387	0.8	505	1	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 16	Highway Dump Truck 18 CY	Concrete Aggregate from Stockton	500	724	0.8	944	2	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 16	Highway Dump Truck 18 CY	Concrete Sand from Stockton	500	577	0.8	753	2	Bacon I Shaft to/from Stockton	23	46	Diesel	
Bi-Central - 16	Highway Dump Truck 18 CY	Flyash from Vernalis	500	108	1.4	77	0	Bacon I Shaft to/from Vernalis	42	84	Diesel	
Bi-Central - 17	Truck, Flatbed, 10T, Hwy	Two Cranes and Aerial Lift to and from Stockton	2	5	0.8	6	3.0	Bacon I Shaft to/from Stockton	23	46	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site												
										Miles On-Site		
Bi-Central - 5	CAT 730 Rear Dump	Dumper	14	17	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		83	Diesel or Hybrid	
Bi-Central - 7	CAT 730 Rear Dump	Dumper	40	201.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1008	Diesel or Hybrid	
Bi-Central - 7	Articulated Rear Dump 22 CY/CAT 730	Dumper	40	228.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1149	Diesel or Hybrid	
Bi-Central - 7	Concrete Pump Truck	Off-Highway Truck	40	463.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2016	Diesel	

Employees Required to Bacon Island - Central Tunnel Shaft Options 7A, 7B

Code	Employee Type	Hours	# WorkDay		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
BI-Central - 1	Carpenter Apprentice	400	10		Stockton to/from Bacon I Shaft	23
BI-Central - 1	Carpenter Foreman	400	10		Stockton to/from Bacon I Shaft	23
BI-Central - 1	Millwright	400	10		Stockton to/from Bacon I Shaft	23
BI-Central - 1	Electrical Foreman	200	10		Stockton to/from Bacon I Shaft	23
BI-Central - 1	Electrician Journeyman	400	10		Stockton to/from Bacon I Shaft	23
	Iron Worker Journeyman					
BI-Central - 1	Rebar/Struct	800	10		Stockton to/from Bacon I Shaft	23
BI-Central - 1	Laborer G2 General	800	10		Stockton to/from Bacon I Shaft	23
BI-Central - 1	Operator G2a Cranes 45 to 100 t	400	10		Stockton to/from Bacon I Shaft	23
BI-Central - 1	Teamster G3 Boom Truck	200	10		Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-1						
BI-Central - 2	Dozer Operator	46.4	10		Stockton to/from Bacon I Shaft	23
BI-Central - 2	General Foreman	23.2	10		Stockton to/from Bacon I Shaft	23
BI-Central - 2	Grader 16H - 16' Blade	46.4	10		Stockton to/from Bacon I Shaft	23
BI-Central - 2	Grader Operator	46.4	10		Stockton to/from Bacon I Shaft	23
BI-Central - 2	Operator G4 Grade Check	23.2	10		Stockton to/from Bacon I Shaft	23
BI-Central - 2	Scraper Operator	92.9	10		Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-2						
BI-Central - 3	Foreman Operator	112	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Hydraulic Crane Operator	112	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Iron Worker	672	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Iron Worker Foreman	112	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Laborer G2 General	6157.5	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Operating Engineer	2,052.5	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Operator G2 Plant Operator	4,105.0	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Operator G3 BH Loader	2,052.5	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Operator G3a Crane	2,052.5	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Operator G4 Grade Check	2,052.5	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Operator G4 Heavy Duty Mechanic	2,052.5	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Teamster G1 Hwy	2,052.5	10		Stockton to/from Bacon I Shaft	23
BI-Central - 3	Teamster G2 Hwy	2,052.5	10		Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-3						
BI-Central - 4	Compactor Operator	2707.1	10		Stockton to/from Bacon I Shaft	23
BI-Central - 4	Dozer Operator	2707.1	10		Stockton to/from Bacon I Shaft	23
BI-Central - 4	Grade Setter / Checker	2707.1	10		Stockton to/from Bacon I Shaft	23
BI-Central - 4	Grader Operator	2707.1	10		Stockton to/from Bacon I Shaft	23
BI-Central - 4	Truck Driver	2707.1	10		Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-4						
BI-Central - 5	Carpenter	318.1	10		Stockton to/from Bacon I Shaft	23
BI-Central - 5	Carpenter Foreman	79.5	10		Stockton to/from Bacon I Shaft	23
BI-Central - 5	Excavator Operator	5.4	10		Stockton to/from Bacon I Shaft	23
BI-Central - 5	Lead Miner	5.4	10		Stockton to/from Bacon I Shaft	23
BI-Central - 5	Loader Operator	5.4	10		Stockton to/from Bacon I Shaft	23
BI-Central - 5	Miner	5.4	10		Stockton to/from Bacon I Shaft	23
BI-Central - 5	Shifter	16.1	10		Stockton to/from Bacon I Shaft	23
BI-Central - 5	Truck Driver		10		Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-5						
BI-Central - 6	General Laborer	85.5	10		Stockton to/from Bacon I Shaft	23
BI-Central - 6	Carpenter	21.4	10		Stockton to/from Bacon I Shaft	23
BI-Central - 6	Carpenter Foreman	9.8	10		Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-6						
BI-Central - 7	Crane Oiler	403.2	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	General Foreman	403.2	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	General Laborer	2217.6	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Hyd Crane Operator	403.2	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Iron Worker	2016	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Iron Worker Foreman	403.2	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Lead Miner	201.6	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Loader Operator	201.6	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Mechanic Welder	403.2	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Miner	1612.8	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Shaft Crane Operator	403.2	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Shifter	604.8	24		Stockton to/from Bacon I Shaft	23
BI-Central - 7	Truck Driver	229.8	24		Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-7						

BI-Central - 8	Carpenter	29.9	24	Stockton to/from Bacon I Shaft	23
BI-Central - 8	Carpenter Foreman	7.5	24	Stockton to/from Bacon I Shaft	23
BI-Central - 8	Excavator Operator	212	24	Stockton to/from Bacon I Shaft	23
BI-Central - 8	General Foreman	212	24	Stockton to/from Bacon I Shaft	23
BI-Central - 8	General Laborer	662.2	24	Stockton to/from Bacon I Shaft	23
BI-Central - 8	Iron Worker	45.7	24	Stockton to/from Bacon I Shaft	23
BI-Central - 8	Iron Worker Foreman	11.4	24	Stockton to/from Bacon I Shaft	23
BI-Central - 8	Loader Operator	212	24	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-8					
BI-Central - 9	Shaft Crane Operator	202.5	24	Stockton to/from Bacon I Shaft	23
BI-Central - 9	Toplander	202.5	24	Stockton to/from Bacon I Shaft	23
BI-Central - 9	Crane Oiler	202.5	24	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-9					
BI-Central - 10	Bottomlander	99.9	24	Stockton to/from Bacon I Shaft	23
BI-Central - 10	Hyd Crane Operator	101.2	24	Stockton to/from Bacon I Shaft	23
BI-Central - 10	Iron Worker	1058.4	24	Stockton to/from Bacon I Shaft	23
BI-Central - 10	Iron Worker Foreman	132.3	24	Stockton to/from Bacon I Shaft	23
BI-Central - 10	Lead Miner	17.2	24	Stockton to/from Bacon I Shaft	23
BI-Central - 10	Miner	402.3	24	Stockton to/from Bacon I Shaft	23
BI-Central - 10	Shaft Crane Operator	99.9	24	Stockton to/from Bacon I Shaft	23
BI-Central - 10	Shifter	149.5	24	Stockton to/from Bacon I Shaft	23
BI-Central - 10	Toplander	229.5	24	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-10					
BI-Central - 11	Hyd Crane Operator	90	24	Stockton to/from Bacon I Shaft	23
BI-Central - 11	Lead Miner	90	24	Stockton to/from Bacon I Shaft	23
BI-Central - 11	Miner	720	24	Stockton to/from Bacon I Shaft	23
BI-Central - 11	Shifter	90	24	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-11					
BI-Central - 12	Crane Oiler	32	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Electrician	7.4	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Iron Worker	196.8	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Iron Worker Foreman	24.6	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Lead Miner	7.4	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Mechanic Welder	7.4	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Miner	108.2	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Shaft Crane Operator	32	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Shifter	32	10	Stockton to/from Bacon I Shaft	23
BI-Central - 12	Toplander	32	10	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-12					
BI-Central - 13	Bottomlander	212	10	Stockton to/from Bacon I Shaft	23
BI-Central - 13	Crane Oiler	212	10	Stockton to/from Bacon I Shaft	23
BI-Central - 13	Iron Worker	1695.6	10	Stockton to/from Bacon I Shaft	23
BI-Central - 13	Iron Worker Foreman	212	10	Stockton to/from Bacon I Shaft	23
BI-Central - 13	Shaft Crane Operator	212	10	Stockton to/from Bacon I Shaft	23
BI-Central - 13	Toplander	212	10	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-13					
BI-Central - 14	Bottomlander	92	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Concrete Pump Operator	114.8	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Crane Oiler	275	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Foreman Operator	84	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Hyd Crane Operator	84	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Iron Worker	504	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Iron Worker Foreman	84	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Lead Miner	321.3	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Mechanic / Welder	206.6	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Miner	2480.4	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Shaft Crane Operator	321	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Shifter	321	10	Stockton to/from Bacon I Shaft	23
BI-Central - 14	Toplander	321	10	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-14					
BI-Central - 15	Bullgang Foreman	36	10	Stockton to/from Bacon I Shaft	23
BI-Central - 15	Bullgang Laborer	72	10	Stockton to/from Bacon I Shaft	23
BI-Central - 15	Flat Truck Driver	36	10	Stockton to/from Bacon I Shaft	23
BI-Central - 15	Hyd Crane Operator	72	10	Stockton to/from Bacon I Shaft	23
BI-Central - 15	Mechanic / Welder	36	10	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-15					
BI-Central - 16	Conveyor Belt Man	1,080.0	10	Stockton to/from Bacon I Shaft	23
BI-Central - 16	Electrician	1,080.0	10	Stockton to/from Bacon I Shaft	23
BI-Central - 16	Lead Miner	1,080.0	10	Stockton to/from Bacon I Shaft	23
BI-Central - 16	Mechanic / Welder	1,080.0	10	Stockton to/from Bacon I Shaft	23
BI-Central - 16	Miner	6,480.0	10	Stockton to/from Bacon I Shaft	23
BI-Central - 16	Shifter	1,080.0	10	Stockton to/from Bacon I Shaft	23
BI-Central - 16	TBM Operator	2,160.0	10	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-16					

BI-Central - 17	Heavy Duty Mechanic Welder	112	10	Stockton to/from Bacon I Shaft	23
BI-Central - 17	Foreman Operator	112	10	Stockton to/from Bacon I Shaft	23
BI-Central - 17	Hyd Crane Operator	112	10	Stockton to/from Bacon I Shaft	23
BI-Central - 17	Iron Worker Foreman	112	10	Stockton to/from Bacon I Shaft	23
BI-Central - 17	Iron Worker	672	10	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-17					
BI-Central - 18	Heavy Duty Mechanic Welder	84	10	Stockton to/from Bacon I Shaft	23
BI-Central - 18	Foreman Operator	84	10	Stockton to/from Bacon I Shaft	23
BI-Central - 18	Hyd Crane Operator	84	10	Stockton to/from Bacon I Shaft	23
BI-Central - 18	Iron Worker Foreman	84	10	Stockton to/from Bacon I Shaft	23
BI-Central - 18	Iron Worker	504	10	Stockton to/from Bacon I Shaft	23
TOTAL BI-Central-17					

TOTAL BI-Central-17

Marine Inventory for Bacon Island - Central Tunnel Shaft
Options 7A, 7B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Bacon Island - Central Tunnel Shaft
Options 7A, 7B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Bacon Island - Central Tunnel Shaft
Options 7A, 7B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Bacon Island - Central Tunnel Shaft
Options 7A, 7B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
BI-Central - 2	15	5	3	11709.9	2341						
BI-Central - 4		190				119113.9	627				
BI-Central - 6		1		352.8	353						
BI-Central - 8		43		5055.3	118						
BI-Central - 9		47		22287.6	474						

**Demolition Assumptions for Bacon Island - Central Tunnel Shaft
Options 7A, 7B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Bethany Park and Ride

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Excavation	BethanyPR-1	10/29/2026	11/3/2026	5	5	10
Culvert Pipe	BethanyPR-2	11/4/2026	11/4/2026	1	1	10
Subdrain System	BethanyPR-3	11/5/2026	11/5/2026	1	1	10
Road Base	BethanyPR-4	11/6/2026	11/9/2026	4	4	10
Asphalt Paving	BethanyPR-5	11/10/2026	11/11/2026	2	2	10
Electrical, Striping, and K-Rail Installation	BethanyPR-6	11/12/2026	11/12/2026	1	1	10

Acres

2.6

Construction Schedule for Byron Park and Ride

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	BPR -1	8/18/2026	9/4/2026	13	5	10
Embankment	BPR -2	9/7/2026	9/8/2026	2	2	10
Culvert Pipe	BPR -3	9/9/2026	9/14/2026	3	3	10
Subdrain System	BPR -4	9/15/2026	9/21/2026	5	5	10
Road Base	BPR -5	9/22/2026	10/8/2026	12	5	10
Asphalt Paving	BPR -6	10/9/2026	10/23/2026	10	5	10
Electrical, Striping, and K-Rail Installation	BPR -7	10/26/2026	10/29/2026	3	3	10

Acres

2.91

Construction Schedule for Bruns Complex Rds - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	BrCmplxRd-C&E Access -1	3/12/2027	3/15/2027	4	4	10
Embankment	BrCmplxRd-C&E Access -2	3/16/2027	3/16/2027	1	1	10
Culvert Pipe	BrCmplxRd-C&E Access -3	3/17/2027	3/17/2027	1	1	10
Bridge over Byron Highway	BrCmplxRd-C&E Access -4	3/17/2027	6/1/2027	54	5	10
Subdrain System	BrCmplxRd-C&E Access -5	3/18/2027	3/22/2027	5	5	10
Road Base	BrCmplxRd-C&E Access -6	3/23/2027	3/24/2027	2	2	10
Asphalt Paving	BrCmplxRd-C&E Access -7	6/2/2027	6/3/2027	2	2	10
KRail and Signs	BrCmplxRd-C&E Access -8	6/4/2027	6/4/2027	1	1	10
Intermediate Overlay	BrCmplxRd-C&E Access -9	5/13/2030	5/14/2030	2	2	10
Final Overlay	BrCmplxRd-C&E Access -10	6/29/2037	7/1/2037	3	3	10

Acres

5.3

Construction Schedule for Discovery Bay Rd Extension - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	DBExt-C&E Access -1	11/10/2026	11/13/2026	4	4	10
Embankment	DBExt-C&E Access -2	11/16/2026	11/20/2026	5	5	10
Culvert Pipe	DBExt-C&E Access -3	11/23/2026	11/24/2026	2	2	10
Subdrain System	DBExt-C&E Access -4	11/25/2026	12/7/2026	10	5	10
Road Base	DBExt-C&E Access -5	12/8/2026	12/22/2026	11	5	10
Asphalt Paving	DBExt-C&E Access -6	12/23/2026	12/30/2026	6	5	10
KRail and Signs	DBExt-C&E Access -7	12/31/2026	12/31/2026	1	1	10
Intermediate Overlay	DBExt-C&E Access -8	5/7/2030	5/8/2030	2	2	10
Final Overlay	DBExt-C&E Access -9	6/8/2037	6/10/2037	3	3	10

Acres

4.6

Construction Schedule for Western Farm Rd - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	WFRd-C&E Access -1	10/9/2026	10/14/2026	5	5	10
Embankment	WFRd-C&E Access -2	10/15/2026	10/19/2026	5	5	10
Culvert Pipe	WFRd-C&E Access -3	10/20/2026	10/20/2026	1	1	10
Subdrain System	WFRd-C&E Access -4	10/21/2026	10/27/2026	5	5	10
Road Base	WFRd-C&E Access -5	10/28/2026	11/9/2026	11	5	10
Asphalt Paving	WFRd-C&E Access -6	11/10/2026	11/17/2026	6	5	10
KRail and Signs	WFRd-C&E Access -7	11/18/2026	11/18/2026	1	1	10
Intermediate Overlay	WFRd-C&E Access -8	5/20/2030	5/21/2030	2	2	10
Final Overlay	WFRd-C&E Access -9	6/10/2037	6/12/2037	3	3	10

Acres

2

Construction Schedule for Southern Complex on Byron Tract - Central						
Option 7						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Rail Features in Northern Southern Forebay	SF - Central - 1	1/5/26	10/22/26	207	5	10
Rail Features in the Southern portion of Southern Forebay	SF - Central - 2	1/5/2026	4/2/2027	323	5	10
Rail Yard	SF - Central - 3	3/30/2026	3/19/2027	253	5	10
Byron Highway Interchange	SF - Central - 4	4/27/2026	3/11/2027	227	5	10
Pumping Plant Initial Site Work	SF - Central - 5	7/2/2027	7/9/2027	5	5	10
Pumping Plant Ground Improvement	SF - Central - 6	7/16/2027	2/24/2028	159	5	10
Pumping Plant Construction Phase 1	SF - Central - 7	3/30/2027	3/30/2028	261	5	10
Pumping Plant Contractor Operations	SF - Central - 8	7/2/2027	4/22/2032	1254	5	10
Pumping Plant Substation	SF - Central - 9	12/21/2029	10/14/2030	212	5	10
Pumping Plant Structure Phase 1	SF - Central - 10	3/17/2027	7/8/2027	81	5	10
Pumping Plant Structure Phase 2	SF - Central - 11	12/21/2029	1/21/2031	283	5	10
Pumping Plant Structure Phase 3	SF - Central - 12	10/23/2030	6/17/2033	691	5	10
Pumping Plant Wet Well	SF - Central - 13	1/23/2031	4/5/2034	834	5	10
Pumping Plant Outlet Structure	SF - Central - 14	4/12/2032	9/1/2034	623	5	10
Pumping Plant Dissipation Slab Phase 1A	SF - Central - 15A	9/29/2031	8/12/2032	227	5	10
Pumping Plant Dissipation Slab Phase 1B	SF - Central - 15B	6/9/2034	10/15/2035	352	5	10
Pumping Plant Electrical Building	SF - Central - 16	6/9/2034	1/11/2035	154	5	10
Pumping Plant Generator Building	SF - Central - 17	1/11/2035	2/26/2035	33	5	10
Pumping Plant HVAC	SF - Central - 18	2/1/2035	3/14/2035	29	5	10
Pumping Plant Finish Site Work	SF - Central - 19	1/11/2035	4/25/2036	336	5	10
Pumping Plant Finish Work Phase 1	SF - Central - 20	1/21/2033	10/19/2035	715	5	10
Pumping Plant Finish Work Phase 2	SF - Central - 21	9/15/2031	4/3/2035	926	5	10
Pumping Plant Pumping Equipment	SF - Central - 22	9/7/2035	7/29/2036	233	5	10
Southern Forebay Site Preparation	SF - Central - 23	3/1/2028	12/7/2028	201	5	10
Southern Forebay Clear and Grub	SF - Central - 24	4/26/2028	1/4/2029	181	5	10
Southern Forebay Foundations	SF - Central - 25	4/26/2028	12/7/2029	445	5	10
Southern Forebay Embankments	SF - Central - 26	4/26/2030	7/6/2035	1355	5	10
Southern Forebay Soil Materials Handling	SF - Central - 27	6/7/2028	2/20/2035	1749	5	10
Southern Forebay Temporary Facilities During Construction	SF - Central - 28	3/1/2028	7/23/2036	2190	5	10
Southern Forebay Emnbankment Finish Work	SF - Central - 29	7/6/2035	7/23/2036	274	5	10
Southern Forebay Spillway	SF - Central - 30	7/27/2034	4/12/2035	185	5	10
Southern Forebay Outlet Structure	SF - Central - 31	1/27/2034	7/23/2036	649	5	10
Southern Forebay Inlet Structure	SF - Central - 32	4/12/2035	10/19/2035	136	5	10
Tunnel Launch Shaft Site Preparation for Shafts from Southern Forebay to South Delta Conveyance	SF - Central - 33	11/21/2029	11/14/2030	256	5	10
Raise Tunnel Eastern Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5E)	SF - Central - 34	11/21/2029	11/5/2032	771	5	10

Finalize Tunnel Eastern Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5E)	SF - Central - 35	4/18/2031	8/19/2031	88	5	10
Construct Tunnel from Eastern Shaft at Southern Forebay Outlet to South Delta Conveyance (called Shaft 5E)	SF - Central - 36	8/20/2031	9/24/2032	344	6	20
Finish Work for Tunnel Eastern Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5E)	SF - Central - 37	9/27/2032	11/15/2032	35	5	10
Raise Tunnel Western Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5W)	SF - Central - 38	7/31/2030	4/6/2034	961	5	10
Finalize Tunnel Western Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5W)	SF - Central - 39	11/28/2031	12/20/2032	277	5	10
Construct Tunnel from Western Shaft at Southern Forebay Outlet to South Delta Conveyance (called Shaft 5W)	SF - Central - 40	12/21/2032	4/21/2034	417	6	20
Finish Work for Tunnel Western Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5W)	SF - Central - 41	3/3/2034	4/21/2034	35	5	10
Tunnel Launch Shaft Site Preparation for Shaft at Northern portion of Southern Forebay	SF - Central - 42	10/12/2029	2/22/2036	1660	5	10
Raise Tunnel Shaft at Northern portion of Southern Forebay	SF - Central - 43	7/26/2030	6/25/2031	239	5	10
Finalize Tunnel Shaft at Northern portion of Southern Forebay	SF - Central - 44	6/25/2031	10/31/2031	91	5	10
Tunnel Launch Working Shaft Site Preparation at Northern portion of Southern Forebay	SF - Central - 45	12/7/2029	7/26/2030	165	5	10
Raise Tunnel Working Shaft at Northern portion of Southern Forebay	SF - Central - 46	3/8/2030	11/18/2031	443	5	10
Finalize Tunnel Working Shaft at Northern portion of Southern Forebay	SF - Central - 47	11/18/2031	2/9/2032	59	5	10
Construct Tunnel from Southern Forebay to Reception Shaft	SF - Central - 48	10/31/2031	11/16/2035	1055	6	20
Finish Work for Tunnel from Southern Forebay to Reception Shaft	SF - Central - 49	11/16/2035	2/20/2036	69	5	10
Erect Batch Plant #1	SF - Central - 50	3/5/2027	4/30/2027	40	5	10
Erect Batch Plant #2	SF - Central - 51	6/25/2030	8/19/2030	39	5	10
Operate Concrete Batch Plant	SF - Central - 52	4/9/2027	3/17/2037	2593	5	10
Intermediate Access Road Overlays	SF - Central - 53	1/28/2037	2/12/2037	11	5	10
Final Access Road Overlays	SF - Central - 54	4/22/2030	5/6/2030	10	5	10
Site Restoration	SF - Central - 55	2/7/2036	1/7/2037	239	5	10
Total Site Acres	1700					

**Vehicle Inventory for Southern Complex on Byron Tract - Central
Option 7**

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
SF - Central - 1	Air Compressor 185 cfm	Air Compressor	8.9	207	0.0	Diesel Tier 4	49	0.48		
SF - Central - 1	CAT Forklift 5,500 LB	Aerial Lift	799.7	207	3.9	Diesel	63	0.31		
SF - Central - 1	Grove RT Crane 30T	Crane	319.9	207	1.5	Diesel	160	0.29		
SF - Central - 1	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	4.4	207	0.0	Diesel	75	0.31		
SF - Central - 1	Boom Truck, 12.5 Tn Boom	Crane	4.4	207	0.0	Diesel or Hybrid	100	0.29		
SF - Central - 2	Air Compressor 185 cfm	Air Compressor	44.4	323	0.1	Diesel Tier 4	49	0.48		
SF - Central - 2	Boom Truck, 12.5 Tn Boom	Crane	22.2	323	0.1	Diesel or Hybrid	100	0.29		
SF - Central - 2	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	22.2	323	0.1	Diesel	75	0.31		
SF - Central - 2	CAT Forklift 5,500 LB	Aerial Lift	4000.3	323	12.4	Diesel	63	0.31		
SF - Central - 2	Grove RT Crane 55T, 247 hp	Crane	1600.1	323	5.0	Diesel	247	0.29		
SF - Central - 3	CAT 14 M	Grader	853.3	253	3.4	Diesel	274	0.41		
SF - Central - 3	CAT 825, Roller	Roller	466.1	253	1.8	Diesel	315	0.38		
SF - Central - 3	CAT 962 H Wheel Loader	Rubber Tired Loader	620.2	253	2.5	Diesel	230	0.36		
SF - Central - 3	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	620.2	253	2.5	Diesel	158	0.38		
SF - Central - 3	CAT D6LGPDozer w winch	Crawler Tractor	1799.2	253	7.1	Diesel or Hybrid	179	0.43		
SF - Central - 3	CAT LOADER/HOE 416 E	Rubber Tired Loaders	2613.1	253	10.3	Diesel	78	0.36		
SF - Central - 3	Compactor, Trench Roller, Vib 32" w	Rollers	378.7	253	1.5	Diesel	20	0.38		
SF - Central - 3	Disk, Towed	Off Highway Tractor	466.1	253	1.8	Diesel	140	0.44		
SF - Central - 3	Grove RT Crane 55T, 247 hp	Crane	2423.8	253	9.6	Diesel	247	0.29		
SF - Central - 3	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	363.6	253	1.4	Diesel	384	0.38		
SF - Central - 3	Water Pump, 4" Diesel	Pumps	180	253	0.7	Diesel	10	0.74		
SF - Central - 4	Air Compressor 375 cfm	Air Compressor	30.4	227	0.1	Diesel Tier 4	122	0.48		
SF - Central - 4	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	311.9	227	1	Diesel or Hybrid	224	0.42		
SF - Central - 4	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	311.9	227	1	Diesel or Hybrid	137	0.38		
SF - Central - 4	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	311.9	227	1	Diesel or Hybrid	133	0.38		
SF - Central - 4	CAT 14 M	Grader	646.9	227	2.8	Diesel	274	0.41		
SF - Central - 4	CAT 815, Roller	Roller	203.4	227	0.9	Diesel	170	0.38		
SF - Central - 4	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	545.3	227	2.4	Diesel	158	0.38		
SF - Central - 4	CAT D6LGPDozer w winch	Crawler Tractor	470.7	227	2.1	Diesel or Hybrid	179	0.43		
SF - Central - 4	CAT LOADER/HOE 416 E	Rubber Tired Loaders	477.9	227	2.1	Diesel	78	0.36		
SF - Central - 4	Compactor, Plate, 22" w x 35"	Plate Compactors	30.4	227	0.1	Diesel	8.5	0.43		
SF - Central - 4	Compactor, Trench Roller, Vib 32" w Disk,	Rollers	140	227	0.6	Diesel	20	0.38		
SF - Central - 4	Towed	Off Highway Tractor	203.4	227	0.9	Diesel	140	0.44		
SF - Central - 4	Grove RT Crane 55T, 247 hp	Crane	1424.2	227	6.3	Diesel	247	0.29		
SF - Central - 4	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	267.3	227	1.2	Diesel	384	0.38		
SF - Central - 4	Light Plant, 4 lite, 1000w, Tower/Mast	Generator	813.4	227	3.6	Diesel	12	0.74		
SF - Central - 4	Manitowoc 555 150T, 250' Boom Water	Crane	1424.2	227	6.3	Diesel	760	0.29		
SF - Central - 4	Pump, 4" Diesel	Pumps	569.7	227	2.5	Diesel	10	0.74		
SF - Central - 5	CAT 14 M	Grader	276.7	5	55.3	Diesel	274	0.41		
SF - Central - 5	CAT 988 H Wheel Loader	Rubber Tired Loader	100	5	20.0	Diesel	400	0.36		
SF - Central - 5	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	100	5	20.0	Diesel	158	0.38		
SF - Central - 5	CAT D3 LGF, Dozer	Crawler Tractor	153.6	5	30.7	Diesel or Hybrid	76	0.43		
SF - Central - 5	CAT D6LGPDozer w winch	Crawler Tractor	153.6	5	30.7	Diesel or Hybrid	179	0.43		
SF - Central - 5	CAT IT28H, 10640 LB Tool Carrier Water	Rubber Tired Loaders	153.6	5	30.7	Diesel	145	0.36		
SF - Central - 5	Pump, 6" Diesel	Pumps	100	5	20.0	Diesel	13	0.74		
SF - Central - 5	Water Pump, 3" Gas, Diaphragm	Pumps	153.6	5	30.7	Gasoline	10	0.74		
SF - Central - 6	Air Compressor 185 cfm	Air Compressor	759.3	159	4.8	Diesel Tier 4	49	0.48		
SF - Central - 6	Air Compressor 375 cfm	Air Compressor	12084	159	76	Diesel Tier 4	122	0.48		
SF - Central - 6	Boom Truck, 12.5 Tn Boom	Crane	379.7	159	2.4	Diesel or Hybrid	100	0.29		
SF - Central - 6	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	12084	159	76	Diesel	110	0.36		
SF - Central - 6	DMM Deep Soil Mixer, 3 Shaft,	Bore Drill Rig	12084	159	76	Diesel	522	0.5		
SF - Central - 6	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	12084	159	76	Diesel	500	0.34		
SF - Central - 6	Grove RT Crane 30T	Crane	15187.2	159	76	Diesel	160	0.29		
SF - Central - 6	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	379.7	159	2.4	Diesel	75	0.31		
SF - Central - 6	Portable, 90 Kw, Diesel, 158HP	Welders	1272	159	8	Diesel Tier 4	158	0.45		
SF - Central - 7	Air Compressor 185 cfm	Air Compressor	2815.9	261	10.8	Diesel Tier 4	49	0.48		
SF - Central - 7	Boom Truck, 12.5 Tn Boom	Crane	1407.9	261	5.4	Diesel or Hybrid	100	0.29		
SF - Central - 7	CAT 14 M	Grader	76.8	261	0.3	Diesel	274	0.41		
SF - Central - 7	Cat 613 C Self Loading Scraper	Scraper	153.6	261	0.6	Diesel	187	0.48		
SF - Central - 7	CAT 950 H Wheel Loader	Rubber Tired Loaders	76.8	261	2.9	Diesel or Hybrid	130	0.36		
SF - Central - 7	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	76.8	261	0.3	Diesel	158	0.38		
SF - Central - 7	CAT D6LGPDozer w winch	Crawler Tractor	76.8	261	0.3	Diesel or Hybrid	179	0.43		
SF - Central - 7	CAT LOADER/HOE 416 E	Rubber Tired Loaders	7488	261	28.6	Diesel	78	0.36		
SF - Central - 7	Compactor, Plate, 22" w x 35"	Plate Compactors	384	261	1.5	Diesel	8.5	0.43		
SF - Central - 7	Disk, Towed	Off Highway Tractor	7488	261	28.6	Diesel	140	0.44		
SF - Central - 7	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	3744	261	14.3	Diesel	80	0.44		
SF - Central - 7	Grove RT Crane 30T	Crane	135.2	261	0.5	Diesel	160	0.29		
SF - Central - 7	Grove RT Crane 80T, 275hp	Crane	135.2	261	0.5	Diesel	275	0.29		
SF - Central - 7	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	1475.6	261	5.6	Diesel	75	0.31		
SF - Central - 7	Water Pump, 4" Diesel	Pumps	76.8	261	0.3	Diesel	10	0.74		
SF - Central - 8	Air Compressor 900 cfm	Air Compressor	9984	1254	8.0	Diesel Tier 4	300	0.48		
SF - Central - 8	CAT 12 M	Grader	1375.5	1254	1.1	Diesel	173	0.41		
SF - Central - 8	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	1375.5	1254	1.1	Diesel	158	0.38		
SF - Central - 8	CAT LOADER/HOE 416 E	Rubber Tired Loaders	6877.6	1254	5.5	Diesel	78	0.36		
SF - Central - 8	Manitowoc 999-275 Ton Crane	Crane	19968	1254	15.9	Diesel	900	0.29		
SF - Central - 8	Portable, 90 Kw, Diesel, 158HP	Welders	19968	1254	15.9	Diesel Tier 4	158	0.45		
SF - Central - 8	Trk Crane, 200tn Hyd, 197bm, 563hp	Crane	19968	1254	15.9	Diesel	563	0.29		
SF - Central - 9	400A Diesel Welder, Trailer Mounted	Welders	280	212	1.3	Diesel	22	0.45		
SF - Central - 9	Air Compressor 185 cfm	Air Compressor	960	212	4.5	Diesel Tier 4	49	0.48		
SF - Central - 9	Air Compressor 900 cfm	Air Compressor	288	212	1.4	Diesel Tier 4	300	0.48		
SF - Central - 9	Boom Truck, 12.5 Tn Boom	Crane	960	212	4.5	Diesel or Hybrid	100	0.29		
SF - Central - 9	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	512	212	2.4	Diesel	110	0.36		
SF - Central - 9	CAT 12 M	Grader	6	212	0.0	Diesel	173	0.41		
SF - Central - 9	CAT 950 H Wheel Loader	Rubber Tired Loaders	80	212	0.4	Diesel or Hybrid	130	0.36		
SF - Central - 9	CAT 973 Track Loader, 4.2 cy, 263hp	Skid Loader	512	212	2.4	Diesel or Hybrid	210	0.37		
SF - Central - 9	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	80	212	0.4	Diesel	158	0.38		
SF - Central - 9	CAT D3 LGF, Dozer	Crawler Tractor	80	212	0.4	Diesel or Hybrid	76	0.43		
SF - Central - 9	CAT D6LGPDozer w winch	Crawler Tractor	24	212	0.1	Diesel or Hybrid	179	0.43		
SF - Central - 9	Compactor, Plate, 22" w x 35"	Plate Compactors	256	212	1.2	Diesel	8.5	0.43		
SF - Central - 9	Concrete Vibrator, 2"	Other Construction Eq	576	212	2.7	Gasoline	3	0.42		
SF - Central - 9	Grove RT Crane 30T	Crane	960	212	4.5	Diesel	160	0.29		

SF - Central - 9	Grove RT Crane 55T, 247 hp	Crane	182.4	212	0.9	Diesel	247	0.29
SF - Central - 9	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	24	212	0.1	Diesel	384	0.38
SF - Central - 9	Manitowoc 555 150T, 250' Boom	Crane	38.4	212	0.2	Diesel	760	0.29
SF - Central - 9	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	960	212	4.5	Diesel	75	0.31
SF - Central - 9	Portable, 90 Kw, Diesel, 158HP	Welders	288	212	1.4	Diesel Tier 4	158	0.45
SF - Central - 10	400A Diesel Welder, Trailer Mounted	Welders	78	81	1.0	Diesel	22	0.45
SF - Central - 10	CAT 14 M	Grader	71.2	81	0.9	Diesel	274	0.41
SF - Central - 10	CAT 988 H Wheel Loader	Rubber Tired Loader	71.2	81	0.9	Diesel	400	0.36
SF - Central - 10	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	71.2	81	0.9	Diesel	158	0.38
SF - Central - 10	Grove RT Crane 55T, 247 hp	Crane	156	81	1.9	Diesel	247	0.29
SF - Central - 10	Portable, 90 Kw, Diesel, 158HP	Welders	78	81	1.0	Diesel Tier 4	158	0.45
SF - Central - 10	Water Pump, 6" Diesel	Pumps	71.2	81	0.9	Diesel	13	0.74
SF - Central - 11	Air Compressor 185 cfm	Air Compressor	890	283	3.1	Diesel Tier 4	49	0.48
SF - Central - 11	Bentonite Mix Plant/Desander	Cement & Mortar Mix	8220.4	283	29.1	Diesel Tier 4	100	0.56
SF - Central - 11	Boom Truck, 12.5 Tn Boom	Crane	445	283	1.6	Diesel or Hybrid	100	0.29
SF - Central - 11	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	8220.4	283	29.1	Diesel	110	0.36
SF - Central - 11	CAT 14 M	Grader	400.9	283	1.4	Diesel	274	0.41
SF - Central - 11	CAT 962 H Wheel Loader	Rubber Tired Loader	8220.4	283	29.1	Diesel	230	0.36
SF - Central - 11	CAT 988 H Wheel Loader	Rubber Tired Loader	200.4	283	0.7	Diesel	400	0.36
SF - Central - 11	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	200.4	283	0.7	Diesel	158	0.38
SF - Central - 11	CAT D6LGPDozer w winch	Crawler Tractor	8220.4	283	29.1	Diesel or Hybrid	179	0.43
SF - Central - 11	Grove RT Crane 55T, 247 hp	Crane	8221.4	283	29.1	Diesel	247	0.29
SF - Central - 11	Grove RT Crane 80T, 275hp	Crane	8220.4	283	29.1	Diesel	275	0.29
SF - Central - 11	Manitowoc 555 150T, 250' Boom	Crane	15256.1	283	53.9	Diesel	760	0.29
SF - Central - 11	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	445	283	1.6	Diesel	75	0.31
SF - Central - 11	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	8220.4	283	29	Diesel	8	0.56
SF - Central - 11	Slurry Wall Techniwell	Pumps	8220.4	283	29	Diesel	500	0.74
SF - Central - 11	Well Drill	Bore/Drill Rigs	192	283	0.7	Diesel	136	0.5
SF - Central - 12	400A Diesel Welder, Trailer Mounted	Welders	3251.8	691	4.7	Diesel	22	0.45
SF - Central - 12	Air Compressor 375 cfm	Air Compressor	58.5	691	0.1	Diesel Tier 4	122	0.48
SF - Central - 12	Air Compressor 900 cfm	Air Compressor	2600.4	691	3.8	Diesel Tier 4	300	0.48
SF - Central - 12	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Construction E	206.5	691	0.3	Diesel	50	0.42
SF - Central - 12	Bobcat 5630 Skid Steer Loader	Skid Loader	266.6	691	0.4	Diesel	74	0.37
SF - Central - 12	CAT 14 M	Grader	130.4	691	0.2	Diesel	274	0.41
SF - Central - 12	CAT 390 MASS EXC	Excavator	1754.9	691	2.5	Diesel	534	0.38
SF - Central - 12	CAT 815, Roller	Roller	260.8	691	0.4	Diesel	170	0.38
SF - Central - 12	CAT D6LGPDozer w winch	Crawler Tractor	260.8	691	0.4	Diesel or Hybrid	179	0.43
SF - Central - 12	CAT D8R1I, Dozer w winch	Crawler Tractor	1385.3	691	2.0	Diesel	310	0.43
SF - Central - 12	Concrete Vibrator, 2"	Other Construction Eq	9579.9	691	13.9	Gasoline	3	0.42
SF - Central - 12	Grove RT Crane 15T, 100hp	Crane	361.8	691	0.5	Diesel	100	0.29
SF - Central - 12	Grove RT Crane 55T, 247 hp	Crane	7235.9	691	10.5	Diesel	247	0.29
SF - Central - 12	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	1494.2	691	2.2	Diesel	345	0.38
SF - Central - 12	Light Plant, 4 lite, 1000w, Tower/Mast	Generator	153.6	691	0.2	Diesel	12	0.74
SF - Central - 12	Manitowoc 555 150T, 250' Boom	Crane	16252.4	691	23.5	Diesel	760	0.29
SF - Central - 12	Portable, 20 Kw, Diesel, 36HP	Welders	58.5	691	0.1	Diesel Tier 4	36	0.45
SF - Central - 12	Portable, 90 Kw, Diesel, 158HP	Welders	3193.3	691	4.6	Diesel Tier 4	158	0.45
SF - Central - 12	Water Pump, 10" Diesel	Pumps	2060.2	691	3.0	Diesel	200	0.74
SF - Central - 13	400A Diesel Welder, Trailer Mounted	Welders	1569.9	834	1.9	Diesel	22	0.45
SF - Central - 13	Air Compressor 185 cfm	Air Compressor	208.3	834	0.2	Diesel Tier 4	49	0.48
SF - Central - 13	Air Compressor 375 cfm	Air Compressor	4.8	834	0.0	Diesel Tier 4	122	0.48
SF - Central - 13	Air Compressor 900 cfm	Air Compressor	1565.1	834	1.9	Diesel Tier 4	300	0.48
SF - Central - 13	Bentonite Mix Plant/Desander	Cement & Mortar Mix	1870.9	834	2.2	Diesel Tier 4	100	0.56
SF - Central - 13	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Construction E	164.7	834	0.2	Diesel	50	0.42
SF - Central - 13	Bobcat 5630 Skid Steer Loader	Skid Loader	87	834	0.1	Diesel	74	0.37
SF - Central - 13	Boom Truck, 12.5 Tn Boom	Crane	104.2	834	0.1	Diesel or Hybrid	100	0.29
SF - Central - 13	CAT 12 M	Grader	57.5	834	0.1	Diesel	173	0.41
SF - Central - 13	CAT 14 M	Grader	95.2	834	0.1	Diesel	274	0.41
SF - Central - 13	CAT 390 MASS EXC	Excavator	58.9	834	0.1	Diesel	534	0.38
SF - Central - 13	CAT 815, Roller	Roller	58.9	834	0.1	Diesel	170	0.38
SF - Central - 13	CAT 962 H Wheel Loader	Rubber Tired Loader	1870.9	834	2.2	Diesel	230	0.36
SF - Central - 13	CAT 988 H Wheel Loader	Rubber Tired Loader	32.9	834	0.0	Diesel	400	0.36
SF - Central - 13	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	32.9	834	0.0	Diesel	158	0.38
SF - Central - 13	CAT D3 LGR, Dozer	Crawler Tractor	230.1	834	0.3	Diesel or Hybrid	76	0.43
SF - Central - 13	CAT D6LGPDozer w winch	Crawler Tractor	1929.8	834	2.3	Diesel or Hybrid	179	0.43
SF - Central - 13	CAT D8R1I, Dozer w winch	Crawler Tractor	312.8	834	0.4	Diesel	310	0.43
SF - Central - 13	Compactor, Plate, 22"x w x 35"	Plate Compactors	87	834	0.1	Diesel	8.5	0.43
SF - Central - 13	Compactor, Trench Roller, Vib 32"w	Rollers	87	834	0.1	Diesel	20	0.38
SF - Central - 13	Concrete Vibrator, 2"	Other Construction Eq	4695.2	834	5.6	Gasoline	3	0.42
SF - Central - 13	Grove RT Crane 55T, 247 hp	Crane	4253.3	834	5.1	Diesel	247	0.29
SF - Central - 13	Grove RT Crane 80T, 275hp	Crane	3742.2	834	4.5	Diesel	275	0.29
SF - Central - 13	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	230.1	834	0.3	Diesel	384	0.38
SF - Central - 13	Manitowoc 555 150T, 250' Boom	Crane	9920.1	834	11.9	Diesel	760	0.29
SF - Central - 13	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	104.2	834	0.1	Diesel	75	0.31
SF - Central - 13	Portable, 90 Kw, Diesel, 158HP	Welders	1565.1	834	1.9	Diesel Tier 4	158	0.45
SF - Central - 13	Water Pump, 10" Diesel	Pumps	1536	834	1.8	Diesel	200	0.74
SF - Central - 13	Water Pump, 6" Diesel	Pumps	1903.8	834	2.3	Diesel	13	0.74
SF - Central - 14	400A Diesel Welder, Trailer Mounted	Welders	3205	623	5.1	Diesel	22	0.45
SF - Central - 14	Air Compressor 375 cfm	Air Compressor	175.6	623	0.3	Diesel Tier 4	122	0.48
SF - Central - 14	Air Compressor 900 cfm	Air Compressor	3029.4	623	4.9	Diesel Tier 4	300	0.48
SF - Central - 14	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Construction E	332.2	623	0.5	Diesel	50	0.42
SF - Central - 14	Bobcat 5630 Skid Steer Loader	Skid Loader	1378	623	2.2	Diesel	74	0.37
SF - Central - 14	CAT 14 M	Grader	244.2	623	0.4	Diesel	274	0.41
SF - Central - 14	CAT 390 MASS EXC	Excavator	921.4	623	1.5	Diesel	534	0.38
SF - Central - 14	CAT 815, Roller	Roller	488.5	623	0.8	Diesel	170	0.38
SF - Central - 14	CAT D6LGPDozer w winch	Crawler Tractor	488.5	623	0.8	Diesel or Hybrid	179	0.43
SF - Central - 14	CAT D8R1I, Dozer w winch	Crawler Tractor	488.5	623	0.8	Diesel	310	0.43
SF - Central - 14	Compactor, Plate, 22"x w x 35"	Plate Compactors	1378	623	2.2	Diesel	8.5	0.43
SF - Central - 14	Compactor, Trench Roller, Vib 32"w	Roller	1378	623	2.2	Diesel	20	0.38
SF - Central - 14	Concrete Vibrator, 2"	Other Construction Eq	9088.1	623	14.6	Gasoline	3	0.42
SF - Central - 14	Grove RT Crane 55T, 247 hp	Crane	3185.8	623	5.1	Diesel	247	0.29
SF - Central - 14	Grove RT Crane 80T, 275hp	Crane	383.3	623	0.6	Diesel	275	0.29
SF - Central - 14	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	433	623	0.7	Diesel	345	0.38
SF - Central - 14	Light Plant, 4 lite, 1000w, Tower/Mast	Generator	345.6	623	0.6	Diesel	12	0.74
SF - Central - 14	Manitowoc 555 150T, 250' Boom	Crane	7381.5	623	11.9	Diesel	760	0.29
SF - Central - 14	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	156.4	623	0.3	Diesel	75	0.31
SF - Central - 14	Portable, 20 Kw, Diesel, 36HP	Welders	156.4	623	0.3	Diesel Tier 4	36	0.45
SF - Central - 14	Portable, 90 Kw, Diesel, 158HP	Welders	3029.4	623	4.9	Diesel Tier 4	158	0.45
SF - Central - 14	Vibro Driver/Extractor V208	Other Construction Eq	156.4	623	0.3	Diesel	325	0.42

SF - Central - 15A	400A Diesel Welder, Trailer Mounted	Welders	2995.2	227	13.2	Diesel	22	0.45
SF - Central - 15A	CAT IT278H, 10640 LB Tool Carrier	Rubber Tired Loaders	2995.2	227	13.2	Diesel	145	0.36
SF - Central - 15A	Manitowoc 555 150T, 250' Boom	Crane	2995.2	227	13.2	Diesel	760	0.29
SF - Central - 15B	400A Diesel Welder, Trailer Mounted	Welders	861.4	352	2.4	Diesel	22	0.45
SF - Central - 15B	Air Compressor 185 cfm	Air Compressor	76.8	352	0.2	Diesel Tier 4	49	0.48
SF - Central - 15B	Air Compressor 375 cfm	Air Compressor	591.7	352	1.7	Diesel Tier 4	122	0.48
SF - Central - 15B	Air Compressor 900 cfm	Air Compressor	861.4	352	2.4	Diesel Tier 4	300	0.48
SF - Central - 15B	Bentonite Mix Plant/Desander	Cement & Mortar Mix	591.7	352	1.7	Diesel Tier 4	100	0.56
SF - Central - 15B	Bidwell Bridge Deck Screed-Finish, 50 HP	Other Construction E	80.9	352	0.2	Diesel	50	0.42
SF - Central - 15B	Bobcat S630 Skid Steer Loader	Skid Loader	250.5	352	0.7	Diesel	74	0.37
SF - Central - 15B	Boom Truck, 12.5 Tn Boom	Crane	38.4	352	0.1	Diesel or Hybrid	100	0.29
SF - Central - 15B	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	591.7	352	1.7	Diesel	110	0.36
SF - Central - 15B	CAT 12 M	Grader	298.6	352	0.8	Diesel	173	0.41
SF - Central - 15B	CAT 14 M	Grader	761.1	352	2.2	Diesel	274	0.41
SF - Central - 15B	CAT 953 Track Loader, 2.25cy, 148hp	Skid Loader	591.7	352	1.7	Diesel	148	0.37
SF - Central - 15B	CAT 988 H Wheel Loader	Rubber Tired Loader	380.5	352	1.1	Diesel	400	0.36
SF - Central - 15B	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	380.5	352	1.1	Diesel	158	0.38
SF - Central - 15B	CAT D6LGPDozer w winch	Crawler Tractor	2980.9	352	8.5	Diesel or Hybrid	179	0.43
SF - Central - 15B	Compactor, Plate, 22" w x 35"	Plate Compactors	250.5	352	0.7	Diesel	8.5	0.43
SF - Central - 15B	Compactor, Trench Roller, Vib 32" w	Roller	250.5	352	0.7	Diesel	20	0.38
SF - Central - 15B	Concrete Vibrator, 2"	Other Construction Eq	2584.3	352	7.3	Gasoline	3	0.42
SF - Central - 15B	Grove RT Crane 15T, 100hp	Crane	591.7	352	1.7	Diesel	100	0.29
SF - Central - 15B	Grove RT Crane 55T, 247 hp	Crane	1034.2	352	2.9	Diesel	247	0.29
SF - Central - 15B	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	1194.6	352	3.4	Diesel	384	0.38
SF - Central - 15B	Manitowoc 555 150T, 250' Boom	Crane	2912.9	352	8.3	Diesel	760	0.29
SF - Central - 15B	Portable, 90 Kw, Diesel, 158HP	Welders	861.3	352	2.4	Diesel Tier 4	158	0.45
SF - Central - 15B	Water Pump, 6" Diesel	Pumps	972.3	352	2.8	Diesel	13	0.74
SF - Central - 16	400A Diesel Welder, Trailer Mounted	Welders	289.1	154	1.9	Diesel	22	0.45
SF - Central - 16	Air Compressor 185 cfm	Air Compressor	1100.8	154	7.1	Diesel Tier 4	49	0.48
SF - Central - 16	Air Compressor 900 cfm	Air Compressor	289.1	154	1.9	Diesel Tier 4	300	0.48
SF - Central - 16	Bidwell Bridge Deck Screed-Finish, 50 HP	Other Construction E	91.1	154	0.6	Diesel	50	0.42
SF - Central - 16	Boom Truck, 12.5 Tn Boom	Crane	1100.8	154	7.1	Diesel or Hybrid	100	0.29
SF - Central - 16	CAT 950 H Wheel Loader	Rubber Tired Loaders	72.3	154	0.5	Diesel or Hybrid	130	0.36
SF - Central - 16	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	72.3	154	0.5	Diesel	158	0.38
SF - Central - 16	CAT D3 LGP, Dozer	Crawler Tractor	72.3	154	0.5	Diesel or Hybrid	76	0.43
SF - Central - 16	Concrete Vibrator, 2"	Other Construction Eq	578.1	154	3.7	Gasoline	3	0.42
SF - Central - 16	Grove RT Crane 30T	Crane	1100.8	154	7.1	Diesel	160	0.29
SF - Central - 16	Grove RT Crane 55T, 247 hp	Crane	289.1	154	1.9	Diesel	247	0.29
SF - Central - 16	Manitowoc 555 150T, 250' Boom	Crane	289.1	154	1.9	Diesel	760	0.29
SF - Central - 16	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	1100.8	154	7.1	Diesel	75	0.31
SF - Central - 17	400A Diesel Welder, Trailer Mounted	Welders	77.7	33	2.4	Diesel	22	0.45
SF - Central - 17	Air Compressor 185 cfm	Air Compressor	1232	33	37.5	Diesel Tier 4	49	0.48
SF - Central - 17	Air Compressor 900 cfm	Air Compressor	77.7	33	2.4	Diesel Tier 4	300	0.48
SF - Central - 17	Bidwell Bridge Deck Screed-Finish, 50 HP	Other Construction E	24.5	33	0.7	Diesel	50	0.42
SF - Central - 17	Boom Truck, 12.5 Tn Boom	Crane	1232	33	37.5	Diesel or Hybrid	100	0.29
SF - Central - 17	CAT 950 H Wheel Loader	Rubber Tired Loaders	10.9	33	0.3	Diesel or Hybrid	130	0.36
SF - Central - 17	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	10.9	33	0.3	Diesel	158	0.38
SF - Central - 17	CAT D3 LGP, Dozer	Crawler Tractor	10.9	33	0.3	Diesel or Hybrid	76	0.43
SF - Central - 17	Concrete Vibrator, 2"	Other Construction Eq	155.4	33	4.7	Gasoline	3	0.42
SF - Central - 17	Grove RT Crane 30T	Crane	1232	33	37.5	Diesel	160	0.29
SF - Central - 17	Grove RT Crane 55T, 247 hp	Crane	77.7	33	2.4	Diesel	247	0.29
SF - Central - 17	Manitowoc 555 150T, 250' Boom	Crane	77.7	33	2.4	Diesel	760	0.29
SF - Central - 17	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	1232	33	37.5	Diesel	75	0.31
SF - Central - 17	Portable, 90 Kw, Diesel, 158HP	Welders	77.7	33	2.4	Diesel Tier 4	158	0.45
SF - Central - 18	400A Diesel Welder, Trailer Mounted	Welders	42.4	29	1.4	Diesel	22	0.45
SF - Central - 18	Air Compressor 185 cfm	Air Compressor	0.2	29	0.0	Diesel Tier 4	49	0.48
SF - Central - 18	Air Compressor 900 cfm	Air Compressor	42.4	29	1.4	Diesel Tier 4	300	0.48
SF - Central - 18	Boom Truck, 12.5 Tn Boom	Crane	29	29	0.0	Diesel or Hybrid	100	0.29
SF - Central - 18	CAT 950 H Wheel Loader	Rubber Tired Loaders	24.2	29	0.8	Diesel or Hybrid	130	0.36
SF - Central - 18	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	24.2	29	0.8	Diesel	158	0.38
SF - Central - 18	CAT D3 LGP, Dozer	Crawler Tractor	24.2	29	0.8	Diesel or Hybrid	76	0.43
SF - Central - 18	Concrete Vibrator, 2"	Other Construction Eq	84.7	29	2.9	Gasoline	3	0.42
SF - Central - 18	Grove RT Crane 30T	Crane	29	29	0.0	Diesel	160	0.29
SF - Central - 18	Grove RT Crane 55T, 247 hp	Crane	42.4	29	1.4	Diesel	247	0.29
SF - Central - 18	Manitowoc 555 150T, 250' Boom	Crane	42.4	29	1.4	Diesel	760	0.29
SF - Central - 18	Portable, 90 Kw, Diesel, 158HP	Welders	42.4	29	1.4	Diesel Tier 4	158	0.45
SF - Central - 19	400A Diesel Welder, Trailer Mounted	Welders	775.6	336	2.3	Diesel	22	0.45
SF - Central - 19	Air Compressor 185 cfm	Air Compressor	2198.4	336	6.5	Diesel Tier 4	49	0.48
SF - Central - 19	Air Compressor 900 cfm	Air Compressor	775.6	336	2.3	Diesel Tier 4	300	0.48
SF - Central - 19	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	35.9	336	0	Diesel or Hybrid	224	0.42
SF - Central - 19	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	35.9	336	0	Diesel or Hybrid	137	0.38
SF - Central - 19	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	35.9	336	0	Diesel or Hybrid	133	0.38
SF - Central - 19	Bidwell Bridge Deck Screed-Finish, 50 HP	Other Construction E	244.3	336	0.7	Diesel	50	0.42
SF - Central - 19	Bobcat S630 Skid Steer Loader	Skid Loader	1115.5	336	3.3	Diesel	74	0.37
SF - Central - 19	Boom Truck, 12.5 Tn Boom	Crane	2198.4	336	6.5	Diesel or Hybrid	100	0.29
SF - Central - 19	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	749.8	336	2.2	Diesel	110	0.36
SF - Central - 19	CAT 14 M	Grader	60.2	336	0.2	Diesel	274	0.41
SF - Central - 19	CAT 390 MASS EXC	Excavator	2.5	336	0.0	Diesel	534	0.38
SF - Central - 19	CAT 825, Roller	Roller	2.5	336	0.0	Diesel	315	0.38
SF - Central - 19	CAT 950 H Wheel Loader	Rubber Tired Loaders	884.5	336	2.6	Diesel or Hybrid	130	0.36
SF - Central - 19	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	192.4	336	0.6	Diesel	158	0.38
SF - Central - 19	CAT D3 LGP, Dozer	Crawler Tractor	134.6	336	0.4	Diesel or Hybrid	76	0.43
SF - Central - 19	CAT D6LGPDozer w winch	Crawler Tractor	5.1	336	0.0	Diesel or Hybrid	179	0.43
SF - Central - 19	CAT LOADER/HOE 416 E	Rubber Tired Loaders	580.7	336	1.7	Diesel	78	0.36
SF - Central - 19	Compactor, Plate, 22" w x 35"	Plate Compactors	374.9	336	1.1	Diesel	8.5	0.43
SF - Central - 19	Concrete Vibrator, 2"	Other Construction Eq	1551.2	336	4.6	Gasoline	3	0.42
SF - Central - 19	Disk, Towed	Off Highway Tractor	2.5	336	0.0	Diesel	140	0.44
SF - Central - 19	Grove RT Crane 30T	Crane	2198.4	336	6.5	Diesel	160	0.29
SF - Central - 19	Grove RT Crane 55T, 247 hp	Crane	775.6	336	2.3	Diesel	247	0.29
SF - Central - 19	Manitowoc 555 150T, 250' Boom	Crane	387.8	336	1.2	Diesel	760	0.29
SF - Central - 19	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	2198.4	336	6.5	Diesel	75	0.31
SF - Central - 19	Portable, 90 Kw, Diesel, 158HP	Welders	775.6	336	2.3	Diesel Tier 4	158	0.45
SF - Central - 19	Water Pump, 4" Diesel	Pumps	12	336	0.0	Diesel	10	0.74
SF - Central - 20	400A Diesel Welder, Trailer Mounted	Welders	2121.4	715	3.0	Diesel	22	0.45
SF - Central - 20	Air Compressor 185 cfm	Air Compressor	5120	715	7.2	Diesel Tier 4	49	0.48
SF - Central - 20	Air Compressor 900 cfm	Air Compressor	2121.4	715	3.0	Diesel Tier 4	300	0.48
SF - Central - 20	Bidwell Bridge Deck Screed-Finish, 50 HP	Other Construction E	294.1	715	0.4	Diesel	50	0.42
SF - Central - 20	Bobcat S630 Skid Steer Loader	Skid Loader	85.7	715	0.1	Diesel	74	0.37
SF - Central - 20	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders		715	0.0	Diesel	110	0.36

SF - Central - 20	Boom Truck, 12.5 Tn Boom	Crane	4160	715	5.8	Diesel or Hybrid	100	0.29
SF - Central - 20	Compactor, Plate, 22" w x 35"	Plate Compactors	85.7	715	0.1	Diesel	8.5	0.43
SF - Central - 20	Concrete Vibrator, 2"	Other Construction Eq	6364.1	715	8.9	Gasoline	3	0.42
SF - Central - 20	Grove RT Crane 80T, 275hp	Crane	2121.4	715	3.0	Diesel	275	0.29
SF - Central - 20	Grove RT Crane 55T, 247 hp	Crane	4870.4	715	6.8	Diesel	247	0.29
SF - Central - 20	Manitowoc 555 150T, 250' Boom	Crane	6429	715	9.0	Diesel	760	0.29
SF - Central - 20	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	7410.5	715	10.4	Diesel	75	0.31
SF - Central - 20	Portable, 90 Kw, Diesel, 158HP	Welders	2121.4	715	3.0	Diesel Tier 4	158	0.45
SF - Central - 21	Air Compressor 185 cfm	Air Compressor	3200	926	3.5	Diesel Tier 4	49	0.48
SF - Central - 22	400A Diesel Welder, Trailer Mounted	Welders	384	233	1.6	Diesel	22	0.45
SF - Central - 22	Manitowoc 555 150T, 250' Boom	Crane	384	233	1.6	Diesel	760	0.29
SF - Central - 22	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	96	233	0.4	Diesel	75	0.31
SF - Central - 23	Air Compressor 185 cfm	Air Compressor	120.5	201	0.6	Diesel Tier 4	49	0.48
SF - Central - 23	Air Compressor 375 cfm	Air Compressor	39.6	201	0.2	Diesel Tier 4	122	0.48
SF - Central - 23	Boom Truck, 12.5 Tn Boom	Crane	110.2	201	0.5	Diesel or Hybrid	100	0.29
SF - Central - 23	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	1209.4	201	6.0	Diesel	110	0.36
SF - Central - 23	CAT 14 M	Grader	25208.8	201	125.6	Diesel	274	0.41
SF - Central - 23	Cat 613 C Self Loading Scraper	Scraper	80	201	0.4	Diesel	187	0.48
SF - Central - 23	CAT 815, Roller	Roller	711.9	201	3.5	Diesel	170	0.38
SF - Central - 23	CAT 950 H Wheel Loader	Rubber Tired Loaders	1209.4	201	6.0	Diesel or Hybrid	130	0.36
SF - Central - 23	CAT 962 H Wheel Loader	Rubber Tired Loader	168.8	201	0.8	Diesel	230	0.36
SF - Central - 23	CAT 988 H Wheel Loader	Rubber Tired Loader	121.1	201	0.6	Diesel	400	0.36
SF - Central - 23	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	208.8	201	1.0	Diesel	158	0.38
SF - Central - 23	CAT D6LGPDozer w winch	Crawler Tractor	1931	201	9.6	Diesel or Hybrid	179	0.43
SF - Central - 23	CAT D8Ril, Dozer w winch	Crawler Tractor	121.1	201	0.6	Diesel	310	0.43
SF - Central - 23	CAT LOADER/HOE 416 E	Rubber Tired Loaders	6329.1	201	31.5	Diesel	78	0.36
SF - Central - 23	Compactor, Plate, 22" w x 35"	Plate Compactors	644.3	201	3.2	Diesel	8.5	0.43
SF - Central - 23	Grove RT Crane 30T	Crane	120.5	201	0.6	Diesel	160	0.29
SF - Central - 23	Grove RT Crane 80T, 275hp	Crane	120.5	201	0.6	Diesel	275	0.29
SF - Central - 23	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	1220.9	201	6.1	Diesel	384	0.38
SF - Central - 23	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	120.5	201	0.6	Diesel	75	0.31
SF - Central - 23	Water Pump, 4" Diesel	Pumps	73.8	201	0.4	Diesel	10	0.74
SF - Central - 24	CAT 14 M	Grader	100	181	0.6	Diesel	274	0.41
SF - Central - 24	CAT 950 H Wheel Loader	Rubber Tired Loaders	200	181	1.1	Diesel or Hybrid	130	0.36
SF - Central - 24	CAT D3 LGP, Dozer	Crawler Tractor	200	181	1.1	Diesel or Hybrid	76	0.43
SF - Central - 24	CAT D6LGPDozer w winch	Crawler Tractor	200	181	1.1	Diesel or Hybrid	179	0.43
SF - Central - 24	Water Pump, 3" Gas, Diaphragm	Pumps	1600	181	8.9	Gasoline	10	0.74
SF - Central - 25	Boom Truck, 12.5 Tn Boom	Crane	3900	445	8.8	Diesel or Hybrid	100	0.29
SF - Central - 25	CAT 12 M	Grader	5190.3	445	11.7	Diesel	173	0.41
SF - Central - 25	CAT D3 LGP, Dozer	Crawler Tractor	20761.4	445	46.7	Diesel or Hybrid	76	0.43
SF - Central - 25	CAT D6LGPDozer w winch	Crawler Tractor	1642.8	445	3.7	Diesel or Hybrid	179	0.43
SF - Central - 25	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	279.7	445	0.6	Diesel	345	0.38
SF - Central - 25	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	21844.8	445	49.1	Diesel	384	0.38
SF - Central - 25	Water Pump, 4" Diesel	Pumps	21900	445	49.2	Diesel	10	0.74
SF - Central - 26	Air Compressor 375 cfm	Air Compressor	13550	1355	10	Diesel Tier 4	122	0.48
SF - Central - 26	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	20738.5	1355	15.3	Diesel	110	0.36
SF - Central - 26	CAT 14 M	Grader	14302.4	1355	10.6	Diesel	274	0.41
SF - Central - 26	CAT 390 MASS EXC	Excavator	10332	1355	7.6	Diesel	534	0.38
SF - Central - 26	CAT 631G Scraper, Conventional	Scraper	73091.1	1355	53.9	Diesel	515	0.48
SF - Central - 26	CAT 825, Roller	Roller	28604.8	1355	21.1	Diesel	315	0.38
SF - Central - 26	CAT D6LGPDozer w winch	Crawler Tractor	25800.4	1355	22.0	Diesel or Hybrid	179	0.43
SF - Central - 26	CAT D9R, Dozer w ripper	Crawler Tractor	18272.8	1355	13.5	Diesel	410	0.43
SF - Central - 26	Disk, Towed	Off Highway Tractor	19468.4	1355	14.4	Diesel	140	0.44
SF - Central - 26	DMM Deep Soil Mixer, 3 Shaft	Bore Drill Rig	13550	1355	10	Diesel	522	0.5
SF - Central - 26	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	13550	1355	10	Diesel	500	0.34
SF - Central - 26	Grove RT Crane 30T	Crane	20738.5	1355	10	Diesel	160	0.29
SF - Central - 26	Portable, 90 Kw, Diesel, 158HP Water Pump, 4" Diesel	Welders	1355	1355	1	Diesel Tier 4	158	0.45
SF - Central - 26		Pumps	4259.1	1355	3.1	Diesel	10	0.74
SF - Central - 27	CAT 14 M	Grader	119.4	1749	0.1	Diesel	274	0.41
SF - Central - 27	Cat 613 C Self Loading Scraper	Scraper	19915.5	1749	11.4	Diesel	187	0.48
SF - Central - 27	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	119.4	1749	0.1	Diesel	158	0.38
SF - Central - 27	CAT D6LGPDozer w winch	Crawler Tractor	32095.7	1749	18.3	Diesel or Hybrid	179	0.43
SF - Central - 27	Disk, Towed	Off Highway Tractor	23282.5	1749	13.3	Diesel	140	0.44
SF - Central - 27	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	17148.8	1749	9.8	Diesel	345	0.38
SF - Central - 28	CAT 12 M	Grader	996.2	2190	0.5	Diesel	173	0.41
SF - Central - 28	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	996.2	2190	0.5	Diesel	158	0.38
SF - Central - 28	CAT LOADER/HOE 416 E	Rubber Tired Loaders	14836.9	2190	6.8	Diesel	78	0.36
SF - Central - 28	Disk, Towed	Off Highway Tractor	6535	2190	3.0	Diesel	140	0.44
SF - Central - 28	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	6535	2190	3.0	Diesel	80	0.44
SF - Central - 29	Bobcat 5630 Skid Steer Loader	Skid Loader	107.1	274	0.4	Diesel	74	0.37
SF - Central - 29	Brush Chipper, 18" Cap., Trailer Mtd. 173hp	Other Construction	67	274	0.2	Diesel	173	0.42
SF - Central - 29	CAT 14 M	Grader	3150.1	274	11.5	Diesel	274	0.41
SF - Central - 29	CAT 320D, 1.56 cy, 153 hp	Excavator	67	274	0.2	Diesel	138	0.38
SF - Central - 29	Cat 613 C Self Loading Scraper	Scraper	555.3	274	2.0	Diesel	187	0.48
SF - Central - 29	CAT 825, Roller	Roller	340.7	274	1.2	Diesel	315	0.38
SF - Central - 29	CAT 950 H Wheel Loader	Rubber Tired Loaders	53.6	274	0.2	Diesel or Hybrid	130	0.36
SF - Central - 29	CAT 962 H Wheel Loader	Rubber Tired Loader	2093.1	274	7.7	Diesel	230	0.36
SF - Central - 29	CAT 966 Gil Wheel Loader	Rubber Tired Loader	2867.8	274	10.5	Diesel	286	0.36
SF - Central - 29	CAT 980 H Wheel Loader	Rubber Tired Loader	340.7	274	1.2	Diesel	393	0.36
SF - Central - 29	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	2093.1	274	7.7	Diesel	158	0.38
SF - Central - 29	CAT D3 LGP, Dozer	Crawler Tractor	26.8	274	0.1	Diesel or Hybrid	76	0.43
SF - Central - 29	CAT D6LGPDozer w winch	Crawler Tractor	869	274	3.2	Diesel or Hybrid	179	0.43
SF - Central - 29	CAT LOADER/HOE 416 E	Rubber Tired Loaders	1868.4	274	6.8	Diesel	78	0.36
SF - Central - 29	Disk, Towed	Off Highway Tractor	507.7	274	1.9	Diesel	140	0.44
SF - Central - 29	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	334	274	1.2	Diesel	80	0.44
SF - Central - 29	Gradall, 1.50 Cy, 282 Hp	Excavator	2867.8	274	10.5	Diesel	282	0.38
SF - Central - 29	Hydro Mulcher, 18 HP	Pumps	167	274	0.6	Diesel	25	0.74
SF - Central - 29	Kobelco SK485LC, 2.75cy, 345 hp Komatsu	Excavator	819.6	274	3.0	Diesel	345	0.38
SF - Central - 29	PC 600LC-8, 4.25 cy, 384 hp	Excavator	2921.3	274	10.7	Diesel	384	0.38
SF - Central - 29	Portable, 20 Kw, Diesel, 36HP	Welders	535.4	274	2.0	Diesel Tier 4	36	0.45
SF - Central - 29	Water Pump, 4" Diesel	Pumps	4488.3	274	16.4	Diesel	10	0.74
SF - Central - 29	Disk, Towed	Off Highway Tractor	507.7	274	1.9	Diesel	140	0.44
SF - Central - 30	400A Diesel Welder, Trailer Mounted	Welders	632.2	185	3.4	Diesel	22	0.45

SF - Central - 30	Air Compressor 1600 cfm	Air Compressor	38	185	0.2	Diesel Tier 4	540	0.48
SF - Central - 30	Air Compressor 375 cfm	Air Compressor	1110	185	6	Diesel Tier 4	122	0.48
SF - Central - 30	Bentonite Mix Plant/Desander	Cement & Mortar Mix	137.5	185	0.7	Diesel Tier 4	100	0.56
SF - Central - 30	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	1306.7	185	7.1	Diesel	110	0.36
SF - Central - 30	CAT 14 M	Grader	138.6	185	0.7	Diesel	274	0.41
SF - Central - 30	CAT 390 MASS EXC	Excavator	137.5	185	0.7	Diesel	534	0.38
SF - Central - 30	CAT 631G Scraper, Conventional	Scraper	808.3	185	4.4	Diesel	515	0.48
SF - Central - 30	CAT 815, Roller	Roller	618	185	3.3	Diesel	170	0.38
SF - Central - 30	CAT 950 H Wheel Loader	Rubber Tired Loaders	171.9	185	0.9	Diesel or Hybrid	130	0.36
SF - Central - 30	CAT 962 H Wheel Loader	Rubber Tired Loader	137.5	185	0.7	Diesel	230	0.36
SF - Central - 30	CAT 966 GII Wheel Loader	Rubber Tired Loaders	137.6	185	0.7	Diesel	286	0.36
SF - Central - 30	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	171.9	185	0.9	Diesel	158	0.38
SF - Central - 30	CAT D3 LGP, Dozer	Crawler Tractor	171.9	185	0.9	Diesel or Hybrid	76	0.43
SF - Central - 30	CAT D6LGPDozer w winch	Crawler Tractor	977.7	185	5.3	Diesel or Hybrid	179	0.43
SF - Central - 30	CAT D9R, Dozer w ripper	Crawler Tractor	269.4	185	1.5	Diesel	410	0.43
SF - Central - 30	Concrete Vibrator, 2"	Other Construction Eq	290.3	185	1.6	Gasoline	3	0.42
SF - Central - 30	DMM Deep Soil Mixer, 3 Shaft,	Bore Drill Rig	185	185	1	Diesel	522	0.5
SF - Central - 30	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	185	185	1	Diesel	500	0.34
SF - Central - 30	Gradall, 1.50 Cy, 282 Hp	Excavator	137.6	185	0.7	Diesel	282	0.38
SF - Central - 30	Grove RT Crane 30T	Crane	185	185	1	Diesel	160	0.29
SF - Central - 30	Grove RT Crane 55T, 247 hp	Crane	642.5	185	3.5	Diesel	247	0.29
SF - Central - 30	Grove RT Crane 80T, 275hp	Crane	137.5	185	0.7	Diesel	275	0.29
SF - Central - 30	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	3.9	185	0.0	Diesel	345	0.38
SF - Central - 30	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	597.3	185	3.2	Diesel	384	0.38
SF - Central - 30	Manitowoc 555 150T, 250' Boom	Crane	550	185	3.0	Diesel	760	0.29
SF - Central - 30	Manitowoc 999-275 Ton Crane	Crane	38	185	0.2	Diesel	900	0.29
SF - Central - 30	Portable, 20 Kw, Diesel, 36HP	Welders	550	185	3.0	Diesel Tier 4	36	0.45
SF - Central - 30	Portable, 90 Kw, Diesel, 158HP Vibro	Welders	80	185	<1	Diesel Tier 4	158	0.45
SF - Central - 30	Driver/Extractor V20B	Other Construction Eq	390	185	2.1	Diesel	325	0.42
SF - Central - 30	Water Pump, 4" Diesel	Pumps	32.3	185	0.2	Diesel	10	0.74
SF - Central - 30	Water Pump, 6" Diesel	Pumps	137.5	185	0.7	Diesel	13	0.74
SF - Central - 31	400A Diesel Welder, Trailer Mounted	Welders	1402.1	649	2.2	Diesel	22	0.45
SF - Central - 31	Air Compressor 1600 cfm	Air Compressor	683.4	649	1.1	Diesel Tier 4	540	0.48
SF - Central - 31	Air Compressor 185 cfm	Air Compressor	350	649	0.5	Diesel Tier 4	49	0.48
SF - Central - 31	Air Compressor 375 cfm	Air Compressor	649	649	1	Diesel Tier 4	122	0.48
SF - Central - 31	Bentonite Mix Plant/Desander	Cement & Mortar Mix	3481.1	649	5.4	Diesel Tier 4	100	0.56
SF - Central - 31	Boom Truck, 12.5 Tn Boom	Crane	175	649	0.3	Diesel or Hybrid	100	0.29
SF - Central - 31	Manitowoc 555 150T, 250' Boom	Crane	324	649	0.5	Diesel	760	0.29
SF - Central - 31	Manitowoc 999-275 Ton Crane	Crane	603.4	649	0.9	Diesel	900	0.29
SF - Central - 31	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	7727.3	649	11.9	Diesel	110	0.36
SF - Central - 31	CAT 14 M	Grader	215.4	649	0.3	Diesel	274	0.41
SF - Central - 31	CAT 390 MASS EXC	Excavator	4091.1	649	6.3	Diesel	534	0.38
SF - Central - 31	CAT 950 H Wheel Loader	Rubber Tired Loaders	33.3	649	0.1	Diesel or Hybrid	130	0.36
SF - Central - 31	CAT 962 H Wheel Loader	Rubber Tired Loader	3481.1	649	5.4	Diesel	230	0.36
SF - Central - 31	CAT 973 Track Loader, 4.2 cy, 263hp	Skid Loader	244	649	0.4	Diesel or Hybrid	210	0.37
SF - Central - 31	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	35.3	649	0.1	Diesel	158	0.38
SF - Central - 31	CAT D6LGPDozer w winch	Crawler Tractor	3481.1	649	5.4	Diesel or Hybrid	179	0.43
SF - Central - 31	CAT D3 LGP, Dozer	Crawler Tractor	33.3	649	0.1	Diesel or Hybrid	76	0.43
SF - Central - 31	CAT D8Ril, Dozer w winch	Crawler Tractor	410.8	649	0.6	Diesel	310	0.43
SF - Central - 31	Concrete Vibrator, 2"	Other Construction Eq	4622.9	649	7.1	Gasoline	3	0.42
SF - Central - 31	DMM Deep Soil Mixer, 3 Shaft	Bore Drill Rig	649	649	1	Diesel	808	0.5
SF - Central - 31	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	649	649	1	Diesel	500	0.34
SF - Central - 31	Grove RT Crane 30T	Crane	649	649	1	Diesel	160	0.29
SF - Central - 31	Grove RT Crane 55T, 247 hp	Crane	472.5	649	0.7	Diesel	247	0.29
SF - Central - 31	Grove RT Crane 80T, 275hp	Crane	3811.3	649	5.9	Diesel	275	0.29
SF - Central - 31	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	175	649	0.3	Diesel	75	0.31
SF - Central - 31	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	815.4	649	1.3	Diesel	384	0.38
SF - Central - 31	Portable, 90 Kw, Diesel, 158HP	Welders	300	649	<1	Diesel Tier 4	158	0.45
SF - Central - 31	Water Pump, 6" Diesel	Pumps	3481.1	649	5.4	Diesel	13	0.74
SF - Central - 31	Water Pump, 4" Diesel	Pumps	62.3	649	0.1	Diesel	10	0.74
SF - Central - 31	Well Drill	Bore/Drill Rigs	200	649	0.3	Diesel	136	0.5
SF - Central - 32	400A Diesel Welder, Trailer Mounted	Welders	948.9	136	7.0	Diesel	22	0.45
SF - Central - 32	Air Compressor 185 cfm	Air Compressor	500	136	3.7	Diesel Tier 4	49	0.48
SF - Central - 32	Air Compressor 375 cfm	Air Compressor	60	136	0.4	Diesel Tier 4	122	0.48
SF - Central - 32	Boom Truck, 12.5 Tn Boom	Crane	616.1	136	4.5	Diesel or Hybrid	100	0.29
SF - Central - 32	CAT IT28H, 10640 LB Tool Carrier	Rubber Tired Loaders	222.2	136	1.6	Diesel	145	0.36
SF - Central - 32	Grove RT Crane 30T	Crane	500	136	3.7	Diesel	160	0.29
SF - Central - 32	Grove RT Crane 15T, 100hp	Crane	116.1	136	0.9	Diesel	100	0.29
SF - Central - 32	Grove RT Crane 80T, 275hp	Crane	1018	136	7.5	Diesel	275	0.29
SF - Central - 32	Manitowoc 555 150T, 250' Boom	Crane	237.2	136	1.7	Diesel	760	0.29
SF - Central - 32	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	500	136	3.7	Diesel	75	0.31
SF - Central - 33	Air Compressor 375 cfm	Air Compressor	5680	256	22.2	Diesel Tier 4	122	0.48
SF - Central - 33	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	5680	256	22.2	Diesel	110	0.36
SF - Central - 33	CAT 825, Roller	Roller	324	256	1.3	Diesel	315	0.38
SF - Central - 33	CAT 980 H Wheel Loader	Rubber Tired Loader	324	256	1.3	Diesel	393	0.36
SF - Central - 33	CAT CB-634D Vibratory 84"	Rollers	324	256	1.3	Diesel	145	0.38
SF - Central - 33	CAT D8 Dozer	Crawler Tractor	324	256	1.3	Diesel	328	0.43
SF - Central - 33	CAT Forklift 5,500 LB	Aerial Lift	800	256	3.1	Diesel	63	0.31
SF - Central - 33	CAT Grader 16H	Graders	324	256	1.3	Diesel	285	0.41
SF - Central - 33	DMM Deep Soil Mixer, 3 Shaft,	Bore Drill Rig	2560	256	10	Diesel	522	0.5
SF - Central - 33	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	5680	256	22.2	Diesel	500	0.34
SF - Central - 33	Grove RT Crane 30T	Crane	5680	256	22.2	Diesel	160	0.29
SF - Central - 33	Hydraulic 40 Ton Crane	Crane	800	256	3.1	Diesel	300	0.29
SF - Central - 33	Hydraulic 9 Ton Crane	Crane	2201	256	8.6	Diesel	85	0.29
SF - Central - 33	Portable, 90 Kw, Diesel, 158HP	Welders	512	256	2	Diesel Tier 4	158	0.45
SF - Central - 34	Air Compressor 1600 cfm	Air Compressor	639	771	0.8	Diesel Tier 4	540	0.48
SF - Central - 34	250 CFM Compressor Diesel	Air Compressor	146	771	0.2	Diesel Tier 3	75	0.74
SF - Central - 34	CAT 950 H Wheel Loader	Rubber Tired Loaders	1028.6	771	1.3	Diesel or Hybrid	130	0.36
SF - Central - 34	CAT CB-634D Vibratory 84"	Rollers	3090	771	4.0	Diesel	145	0.38
SF - Central - 34	CAT D8 Dozer	Crawler Tractor	3090	771	4.0	Diesel	328	0.43
SF - Central - 34	CAT Forklift 5,500 LB	Aerial Lift	16	771	0.0	Diesel	63	0.31
SF - Central - 34	CAT Grader 16H	Graders	3090	771	4.0	Diesel	285	0.41
SF - Central - 34	CAT Hyd Excavator 1CY	Excavator	785.6	771	1.0	Diesel	138	0.38
SF - Central - 34	Hydraulic 40 Ton Crane	Crane	304.6	771	0.4	Diesel	300	0.29
SF - Central - 34	Hydraulic 9 Ton Crane	Crane	16	771	0.0	Diesel	85	0.29
SF - Central - 34	Hydraulic 55 Ton Crane	Crane	1278	771	1.7	Diesel	350	0.29
SF - Central - 34	Manitowoc 777 200 Ton Crane	Crane	2365	771	3.1	Diesel	760	0.29
SF - Central - 34	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	639	771	1	Diesel	8	0.56
SF - Central - 34	Slurry Wall Techniwell	Pumps	639	771	1	Diesel	500	0.74

SF - Central - 35	150 KW Diesel Generator	Generator	100	88	1.1	Diesel Tier 4	183	0.74
SF - Central - 35	Air Compressor 1600 cfm	Air Compressor	160	88	1.8	Diesel Tier 4	540	0.48
SF - Central - 35	250 CFM Compressor Diesel	Air Compressor	1647.3	88	18.7	Diesel Tier 3	75	0.74
SF - Central - 35	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	295	88	3.4	Diesel Tier 4	210	0.38
SF - Central - 35	Water Pump, 6" Diesel	Pumps	400	88	4.6	Diesel	13	0.74
SF - Central - 35	Hydraulic 40 Ton Crane	Crane	760	88	8.7	Diesel	300	0.29
SF - Central - 35	Manitowoc 777 200 Ton Crane	Crane	922.9	88	10.5	Diesel	760	0.29
SF - Central - 35	Manitowoc 999-275 Ton Crane	Crane	393.6	88	4.5	Diesel	900	0.29
SF - Central - 35	Telescope RT Forklift 5500	Forklift	160	88	1.8	Diesel	63	0.2
SF - Central - 35	Truck Crane Lattice Boom 90T	Crane	160	88	1.8	Diesel Tier 4	300	0.29
SF - Central - 36	250 CFM Compressor Diesel	Air Compressor	5103.9	344	14.8	Diesel Tier 3	75	0.74
SF - Central - 36	CAT 988 H Wheel Loader	Rubber Tired Loader	2300	344	6.7	Diesel	400	0.36
SF - Central - 36	CAT D8 Dozer	Crawler Tractor	2300	344	6.7	Diesel	328	0.43
SF - Central - 36	CAT Forklift 5,500 LB	Aerial Lift	2590	344	7.5	Diesel	63	0.31
SF - Central - 36	Hydraulic 40 Ton Crane	Crane	2990	344	8.7	Diesel	300	0.29
SF - Central - 36	Hydraulic 9 Ton Crane	Crane	2590	344	7.5	Diesel	85	0.29
SF - Central - 37	Air Compressor 1600 cfm	Air Compressor	100	35	2.9	Diesel Tier 4	540	0.48
SF - Central - 37	Hydraulic 40 Ton Crane	Crane	100	35	2.9	Diesel	300	0.29
SF - Central - 37	Hydraulic 55 Ton Crane	Crane	715	35	20.4	Diesel	350	0.29
SF - Central - 37	Manitowoc 777 200 Ton Crane	Crane	715	35	20.4	Diesel	760	0.29
SF - Central - 37	Telescope RT Forklift 5500	Forklift	424	35	12.1	Diesel	63	0.2
SF - Central - 37	Truck Crane Lattice Boom 90T	Crane	100	35	2.9	Diesel Tier 4	300	0.29
SF - Central - 38	150 KW Diesel Generator	Generator	100	961	0.1	Diesel Tier 4	183	0.74
SF - Central - 38	Air Compressor 1600 cfm	Air Compressor	639	961	0.7	Diesel Tier 4	540	0.48
SF - Central - 38	250 CFM Compressor Diesel	Air Compressor	146	961	0.2	Diesel Tier 3	75	0.74
SF - Central - 38	Air Compressor 375 cfm	Air Compressor	2133	961	2.2	Diesel Tier 4	122	0.48
SF - Central - 38	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	2133	961	2.2	Diesel	110	0.36
SF - Central - 38	CAT 950 H Wheel Loader	Rubber Tired Loaders	1028.6	961	1.1	Diesel or Hybrid	130	0.36
SF - Central - 38	CAT CB-634D Vibratory 84"	Rollers	3090	961	3.2	Diesel	145	0.38
SF - Central - 38	CAT D8 Dozer	Crawler Tractor	3090	961	3.2	Diesel	328	0.43
SF - Central - 38	CAT Forklift 5,500 LB	Aerial Lift	16	961	0.0	Diesel	63	0.31
SF - Central - 38	CAT Grader 16H	Graders	3090	961	3.2	Diesel	285	0.41
SF - Central - 38	CAT Hyd Excavator 1CY	Excavator	405.6	961	0.4	Diesel	138	0.38
SF - Central - 38	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	1278	961	1.3	Diesel Tier 4	210	0.38
SF - Central - 38	Water Pump, 6" Diesel	Pumps	400	961	0.4	Diesel	13	0.74
SF - Central - 38	DMM Deep Soil Mixer, 3 Shaft,	Bore Drill Rig	2133	961	2.2	Diesel	522	0.5
SF - Central - 38	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	2133	961	2.2	Diesel	500	0.34
SF - Central - 38	Grove RT Crane 30T	Crane	2133	961	2.2	Diesel	160	0.29
SF - Central - 38	Hydraulic 40 Ton Crane	Crane	304.6	961	0.3	Diesel	300	0.29
SF - Central - 38	Hydraulic 9 Ton Crane	Crane	116	961	0.1	Diesel	85	0.29
SF - Central - 38	Hydraulic 55 Ton Crane	Crane	1278	961	1.3	Diesel	350	0.29
SF - Central - 38	CAT Hyd Excavator 1CY	Excavator	380	961	0.4	Diesel	138	0.38
SF - Central - 38	Manitowoc 777 200 Ton Crane	Crane	1726	961	1.8	Diesel	760	0.29
SF - Central - 38	Manitowoc 200 Ton Crane	Crane	639	961	0.7	Diesel	760	0.29
SF - Central - 38	Portable, 90 Kw, Diesel, 158HP	Welders	400	961	<1	Diesel Tier 4	158	0.45
SF - Central - 38	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	639	961	1	Diesel	8	0.56
SF - Central - 38	Slurry Wall Techniwell	Pumps	639	961	1	Diesel	500	0.74
SF - Central - 39	Air Compressor 1600 cfm	Air Compressor	160	277	0.6	Diesel Tier 4	540	0.48
SF - Central - 39	250 CFM Compressor Diesel	Air Compressor	1647.3	277	5.9	Diesel Tier 3	75	0.74
SF - Central - 39	Telescope RT Forklift 5500	Forklift	160	277	0.6	Diesel	63	0.2
SF - Central - 39	Truck Crane Lattice Boom 90T	Crane	160	277	0.6	Diesel Tier 4	300	0.29
SF - Central - 39	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	0	0	0.0	Diesel Tier 4	210	0.38
SF - Central - 39	Hydraulic 40 Ton Crane	Crane	660	277	2.4	Diesel	300	0.29
SF - Central - 39	Manitowoc 777 200 Ton Crane	Crane	922.9	277	3.3	Diesel	760	0.29
SF - Central - 39	Manitowoc 999-275 Ton Crane	Crane	393.6	277	1.4	Diesel	900	0.29
SF - Central - 40	250 CFM Compressor Diesel	Air Compressor	5115.3	417	12.3	Diesel Tier 3	75	0.74
SF - Central - 40	CAT 988 H Wheel Loader	Rubber Tired Loader	2305	417	5.5	Diesel	400	0.36
SF - Central - 40	CAT D8 Dozer	Crawler Tractor	2305	417	5.5	Diesel	328	0.43
SF - Central - 40	CAT Forklift 5,500 LB	Aerial Lift	2504	417	6.0	Diesel	63	0.31
SF - Central - 40	Hydraulic 40 Ton Crane	Crane	2904	417	7.0	Diesel	300	0.29
SF - Central - 40	Hydraulic 9 Ton Crane	Crane	2504	417	6.0	Diesel	85	0.29
SF - Central - 41	Air Compressor 1600 cfm	Air Compressor	100	35	2.9	Diesel Tier 4	540	0.48
SF - Central - 41	Hydraulic 40 Ton Crane	Crane	100	35	2.9	Diesel	300	0.29
SF - Central - 41	Hydraulic 55 Ton Crane	Crane	802	35	22.9	Diesel	350	0.29
SF - Central - 41	Manitowoc 777 200 Ton Crane	Crane	715	35	20.4	Diesel	760	0.29
SF - Central - 41	Telescope RT Forklift 5500	Forklift	424	35	12.1	Diesel	63	0.2
SF - Central - 41	Truck Crane Lattice Boom 90T	Crane	100	35	2.9	Diesel Tier 4	300	0.29
SF - Central - 42	Air Compressor 375 cfm	Air Compressor	3298.7	1660	2.0	Diesel Tier 4	122	0.48
SF - Central - 42	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	3298.7	1660	2.0	Diesel	110	0.36
SF - Central - 42	CAT 825, Roller	Roller	187.9	1660	0.1	Diesel	315	0.38
SF - Central - 42	CAT 980 H Wheel Loader	Rubber Tired Loader	187.9	1660	0.1	Diesel	393	0.36
SF - Central - 42	CAT CB-634D Vibratory 84"	Rollers	3679.9	1660	2.2	Diesel	145	0.38
SF - Central - 42	CAT D8 Dozer	Crawler Tractor	3679.9	1660	2.2	Diesel	328	0.43
SF - Central - 42	CAT Forklift 5,500 LB	Aerial Lift	372	1660	0.2	Diesel	63	0.31
SF - Central - 42	CAT Grader 16H	Graders	3679.9	1660	2.2	Diesel	285	0.41
SF - Central - 42	DMM Deep Soil Mixer, 3 Shaft	Bore Drill Rig	3298.7	1660	2.0	Diesel	522	0.5
SF - Central - 42	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	3298.7	1660	2.0	Diesel	500	0.34
SF - Central - 42	Grove RT Crane 30T	Crane	3298.7	1660	2.0	Diesel	160	0.29
SF - Central - 42	Hydraulic 40 Ton Crane	Crane	372	1660	0.2	Diesel	300	0.29
SF - Central - 42	Hydraulic 9 Ton Crane	Crane	430.6	1660	0.3	Diesel	85	0.29
SF - Central - 42	Portable, 90 Kw, Diesel, 158HP	Welders	700	1660	<1	Diesel Tier 4	158	0.45
SF - Central - 43	150 KW Diesel Generator	Generator	95.7	239	0.4	Diesel Tier 4	183	0.74
SF - Central - 43	Air Compressor 1600 cfm	Air Compressor	611.2	239	2.6	Diesel Tier 4	540	0.48
SF - Central - 43	250 CFM Compressor Diesel	Air Compressor	139.7	239	0.6	Diesel Tier 3	75	0.74
SF - Central - 43	CAT 825, Roller	Roller	113.5	239	0.5	Diesel	315	0.38
SF - Central - 43	CAT 950 H Wheel Loader	Rubber Tired Loaders	983.9	239	4.1	Diesel or Hybrid	130	0.36
SF - Central - 43	CAT 980 H Wheel Loader	Rubber Tired Loader	113.5	239	0.5	Diesel	393	0.36
SF - Central - 43	CAT CB-634D Vibratory 84"	Rollers	113.5	239	0.5	Diesel	145	0.38
SF - Central - 43	CAT D8 Dozer	Crawler Tractor	113.5	239	0.5	Diesel	328	0.43
SF - Central - 43	CAT Forklift 5,500 LB	Aerial Lift	15.3	239	0.1	Diesel	63	0.31
SF - Central - 43	CAT Grader 16H	Graders	113.5	239	0.5	Diesel	285	0.41
SF - Central - 43	CAT Hyd Excavator 1CY	Excavator	388	239	1.6	Diesel	138	0.38
SF - Central - 43	Water Pump, 6" Diesel	Pumps	382.6	239	1.6	Diesel	13	0.74
SF - Central - 43	Hydraulic 40 Ton Crane	Crane	101.4	239	0.4	Diesel	300	0.29
SF - Central - 43	Hydraulic 9 Ton Crane	Crane	801.3	239	3.4	Diesel	85	0.29

SF - Central - 43	Hydraulic 55 Ton Crane	Crane	1148.8	239	4.8	Diesel	350	0.29
SF - Central - 43	CAT Hyd Excavator 1CY	Excavator	363.5	239	1.5	Diesel	138	0.38
SF - Central - 43	Manitowoc 200 Ton Crane	Crane	537.6	239	2.3	Diesel	760	0.29
SF - Central - 43	Manitowoc 777 200 Ton Crane	Crane	1475.9	239	6.2	Diesel	760	0.29
SF - Central - 43	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	611.2	239	3	Diesel	8	0.56
SF - Central - 43	Slurry Wall Techniwell	Pumps	611.2	239	3	Diesel	500	0.74
SF - Central - 44	250 CFM Compressor Diesel	Air Compressor	923.9	91	10.1	Diesel Tier 3	75	0.74
SF - Central - 44	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	0	0	0.0	Diesel Tier 4	210	0.38
SF - Central - 44	Manitowoc 777 200 Ton Crane	Crane	792.9	91	8.7	Diesel	760	0.29
SF - Central - 44	Manitowoc 999-275 Ton Crane	Crane	292.8	91	3.2	Diesel	900	0.29
SF - Central - 45	CAT 631G Scraper, Conventional	Scraper	73.4	165	0.4	Diesel	515	0.48
SF - Central - 45	CAT 980 H Wheel Loader	Rubber Tired Loader	1334.6	165	8.1	Diesel	393	0.36
SF - Central - 45	CAT CB-634D Vibratory 84"	Rollers	2820.7	165	17.1	Diesel	145	0.38
SF - Central - 45	CAT D8 Dozer	Crawler Tractor	4192	165	25.4	Diesel	328	0.43
SF - Central - 45	CAT Grader 16H	Graders	4155.3	165	25.2	Diesel	285	0.41
SF - Central - 46	150 KW Diesel Generator	Generator	0	0	0	Diesel Tier 4	183	0.74
SF - Central - 46	Air Compressor 1600 cfm	Air Compressor	611.2	443	1.4	Diesel Tier 4	540	0.48
SF - Central - 46	250 CFM Compressor Diesel	Air Compressor	139.7	443	0.3	Diesel Tier 3	75	0.74
SF - Central - 46	CAT 950 H Wheel Loader	Rubber Tired Loaders	983.9	443	2.2	Diesel or Hybrid	130	0.36
SF - Central - 46	CAT CB-634D Vibratory 84"	Rollers	3445	443	7.8	Diesel	145	0.38
SF - Central - 46	CAT D8 Dozer	Crawler Tractor	3445	443	7.8	Diesel	328	0.43
SF - Central - 46	CAT Forklift 5,500 LB	Aerial Lift	91.8	443	0.2	Diesel	63	0.31
SF - Central - 46	CAT Grader 16H	Graders	3445	443	7.8	Diesel	285	0.41
SF - Central - 46	CAT Hyd Excavator 1CY	Excavator	388	443	0.9	Diesel	138	0.38
SF - Central - 46	Water Pump, 6" Diesel	Pumps	382.6	443	0.9	Diesel	13	0.74
SF - Central - 46	Hydraulic 40 Ton Crane	Crane	367.9	443	0.8	Diesel	300	0.29
SF - Central - 46	Hydraulic 9 Ton Crane	Crane	91.8	443	0.2	Diesel	85	0.29
SF - Central - 46	Hydraulic 55 Ton Crane	Crane	1148.8	443	2.6	Diesel	350	0.29
SF - Central - 46	CAT Hyd Excavator 1CY	Excavator	363.5	443	0.8	Diesel	138	0.38
SF - Central - 46	Manitowoc 777 200 Ton Crane	Crane	1475.9	443	3.3	Diesel	760	0.29
SF - Central - 46	Manitowoc 200 Ton Crane	Crane	537.6	443	1.2	Diesel	760	0.29
SF - Central - 46	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	611.2	443	1	Diesel	8	0.56
SF - Central - 46	Slurry Wall Techniwell	Pumps	611.2	443	1	Diesel	500	0.74
SF - Central - 47	Air Compressor 1600 cfm	Air Compressor	149.3	59	2.5	Diesel Tier 4	540	0.48
SF - Central - 47	250 CFM Compressor Diesel	Air Compressor	923.9	59	15.6	Diesel Tier 3	75	0.74
SF - Central - 47	Hydraulic 40 Ton Crane	Crane	149.3	59	2.5	Diesel	300	0.29
SF - Central - 47	Manitowoc 777 200 Ton Crane	Crane	792.9	59	13.4	Diesel	760	0.29
SF - Central - 47	Manitowoc 999-275 Ton Crane	Crane	292.8	59	4.9	Diesel	900	0.29
SF - Central - 47	Telescope RT Forklift 5500	Forklift	149.3	59	2.5	Diesel	63	0.2
SF - Central - 47	Truck Crane Lattice Boom 90T	Crane	149.3	59	2.5	Diesel Tier 4	300	0.29
SF - Central - 48	250 CFM Compressor Diesel	Air Compressor	21734.5	1055	20.6	Diesel Tier 3	75	0.74
SF - Central - 48	CAT 988 H Wheel Loader	Rubber Tired Loader	7000	1055	6.6	Diesel	400	0.36
SF - Central - 48	CAT D8 Dozer	Crawler Tractor	6533.3	1055	6.2	Diesel	328	0.43
SF - Central - 48	CAT Forklift 5,500 LB	Aerial Lift	10612	1055	10.1	Diesel	63	0.31
SF - Central - 48	Hydraulic 40 Ton Crane	Crane	11452	1055	10.9	Diesel	300	0.29
SF - Central - 48	Hydraulic 9 Ton Crane	Crane	10612	1055	10.1	Diesel	85	0.29
SF - Central - 48	Manitowoc 777 200 Ton Crane	Crane	373.3	1055	0.4	Diesel	760	0.29
SF - Central - 49	Air Compressor 1600 cfm	Air Compressor	93.3	69	1.4	Diesel Tier 4	540	0.48
SF - Central - 49	CAT Forklift 5,500 LB	Aerial Lift	76.5	69	1.1	Diesel	63	0.31
SF - Central - 49	Hydraulic 9 Ton Crane	Crane	76.5	69	1.1	Diesel	85	0.29
SF - Central - 49	Hydraulic 40 Ton Crane	Crane	169.9	69	2.5	Diesel	300	0.29
SF - Central - 49	Hydraulic 55 Ton Crane	Crane	1040.7	69	15.2	Diesel	350	0.29
SF - Central - 49	Manitowoc 777 200 Ton Crane	Crane	667.3	69	9.7	Diesel	760	0.29
SF - Central - 49	Telescope RT Forklift 5500	Forklift	980	69	14.3	Diesel	63	0.2
SF - Central - 49	Truck Crane Lattice Boom 90T	Crane	93.3	69	1.4	Diesel Tier 4	300	0.29
SF - Central - 50	400A Diesel Welder, Trailer Mounted	Welders	384	40	9.6	Diesel	22	0.45
SF - Central - 50	Air Compressor 1600 cfm	Air Compressor	384	40	9.6	Diesel Tier 4	540	0.48
SF - Central - 50	Boom Truck, 12.5 Tn Boom	Crane	192	40	4.8	Diesel or Hybrid	100	0.29
SF - Central - 50	Grove RT Crane 80T, 275hp	Crane	384	40	9.6	Diesel	275	0.29
SF - Central - 50	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	192	40	4.8	Diesel	75	0.31
SF - Central - 51	Air Compressor 1600 cfm	Air Compressor	400	39	10.2	Diesel Tier 4	540	0.48
SF - Central - 51	Boom Truck, 12.5 Tn Boom	Crane	200	39	5.1	Diesel or Hybrid	100	0.29
SF - Central - 51	Grove RT Crane 80T, 275hp	Crane	400	39	10.2	Diesel	275	0.29
SF - Central - 51	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	200	39	5.1	Diesel	75	0.31
SF - Central - 52	400A Diesel Welder, Trailer Mounted	Welders	3421	2593	1.3	Diesel	22	0.45
SF - Central - 52	Bobcat S630 Skid Steer Loader	Skid Loader	17104.9	2593	6.6	Diesel	74	0.37
SF - Central - 52	CAT 962 H Wheel Loader	Rubber Tired Loader	34440.5	2593	13.3	Diesel	230	0.36
SF - Central - 52	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	8287.3	2593	3.2	Diesel Tier 4	210	0.38
SF - Central - 52	Portable, 300 Kw, Diesel, 36HP	Welders	34209.7	2593	13.2	Diesel Tier 4	400	0.45
SF - Central - 53	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	101	11	9	Diesel or Hybrid	224	0.42
SF - Central - 53	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	101	11	9	Diesel or Hybrid	137	0.38
SF - Central - 53	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	101	11	9	Diesel or Hybrid	133	0.38
SF - Central - 53	CAT LOADER/HOE 416 E	Rubber Tired Loaders	101	11	9.4	Diesel	78	0.36
SF - Central - 54	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	101	10	10	Diesel or Hybrid	224	0.42
SF - Central - 54	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	101	10	10	Diesel or Hybrid	137	0.38
SF - Central - 54	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	101	10	10	Diesel or Hybrid	133	0.38
SF - Central - 54	CAT LOADER/HOE 416 E	Rubber Tired Loaders	101	10	10.1	Diesel	78	0.36
SF - Central - 55	CAT 12 M	Grader	210	239	0.9	Diesel	173	0.41
SF - Central - 55	CAT 390 MASS EXC	Excavator	200	239	0.8	Diesel	534	0.38
SF - Central - 55	CAT D8RII, Dozer w winch	Crawler Tractor	2000	239	8.4	Diesel	310	0.43
SF - Central - 55	CAT 631G Scraper, Conventional	Scraper	2000	239	8.4	Diesel	515	0.48
SF - Central - 55	Disk, Towed	Off Highway Tractor	320	239	1.3	Diesel	140	0.44
SF - Central - 55	CAT 966 Gil Wheel Loader	Rubber Tired Loaders	40	239	0.2	Diesel	286	0.36
SF - Central - 55	CAT D9R, Dozer w ripper	Crawler Tractor	1180	239	4.9	Diesel	410	0.43
SF - Central - 55	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	1240	239	5.2	Diesel	80	0.44
SF - Central - 55	Hydro Mulcher, 18 HP	Pumps	120	239	0.5	Diesel	25	0.74
SF - Central - 55	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	1000	239	4.2	Diesel	345	0.38

**Offroad Equipment (Electric) Inventory for Southern Complex on Byron Tract - Central
Option 7**

Electricity for TBM Operations included in the Summary Workbook

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
SF - Central - 1	400A, Electric Welder	8.9	207	15	0.644
SF - Central - 2	400A, Electric Welder	44.4	323	15	2.063
SF - Central - 6	400A, Electric Welder	790.9	759.3	15	15.624
SF - Central - 6	Water Pump, 4" Electrical, Submersible	15820	15187.2	1	1.042
SF - Central - 7	400A, Electric Welder	2815.9	261	15	161.568
SF - Central - 9	400A, Electric Welder	960	212	15	67.879
SF - Central - 9	Water Pump, 4" Electrical, Submersible	576	212	1	2.715
SF - Central - 10	Water Pump, 4" Electrical, Submersible	46.8	81	1	0.580
SF - Central - 11	400A, Electric Welder	890	283	15	47.197
SF - Central - 12	400A, Electric Welder	3251.8	691	15	70.545
SF - Central - 12	Water Pump, 4" Electrical, Submersible	7833.9	691	1	11.330
SF - Central - 13	400A, Electric Welder	4528.7	834	15	81.424
SF - Central - 13	Water Pump, 4" Electrical, Submersible	3867.4	834	1	4.636
SF - Central - 14	Water Pump, 4" Electrical, Submersible	6058.8	623	1	9.727
SF - Central - 15B	400A, Electric Welder	76.8	352	15	3.271
SF - Central - 15B	Water Pump, 4" Electrical, Submersible	972.3	352	1	2.761
SF - Central - 16	400A, Electric Welder	1100.8	154	15	107.022
SF - Central - 16	Water Pump, 4" Electrical, Submersible	578.1	154	1	3.747
SF - Central - 17	400A, Electric Welder	1232	33	15	562.435
SF - Central - 17	Water Pump, 4" Electrical, Submersible	155.4	33	1	4.730
SF - Central - 18	400A, Electric Welder	0.2	29	15	0.102
SF - Central - 18	Water Pump, 4" Electrical, Submersible	84.7	29	1	2.892
SF - Central - 19	400A, Electric Welder	2198.4	336	15	98.226
SF - Central - 19	Water Pump, 4" Electrical, Submersible	1551.2	336	1	4.621
SF - Central - 20	400A, Electric Welder	5817.9	715	15	122.054
SF - Central - 20	Water Pump, 4" Electrical, Submersible	242.8	715	1	0.340
SF - Central - 21	400A, Electric Welder	3200	926	15	51.852
SF - Central - 23	400A, Electric Welder	120.5	201	15	9.005
SF - Central - 26	Water Pump, 4" Electrical, Submersible	20738.5	1355	1	15.305
SF - Central - 29	Water Pump, 6" Electrical, Submersible	535.4	274	1	1.957
SF - Central - 30	Water Pump, 4" Electrical, Submersible	1173	185	1	6.341
SF - Central - 30	Water Pump, 6" Electrical, Submersible	38	185	1	0.205
SF - Central - 31	400A, Electric Welder	350	649	15	8.095
SF - Central - 31	Water Pump, 4" Electrical, Submersible	21569.1	649	1	33.256
SF - Central - 31	Water Pump, 6" Electrical, Submersible	506.6	649	1	0.781
SF - Central - 32	400A, Electric Welder	500	136	15	55.263
SF - Central - 33	Water Pump, 4" Electrical, Submersible	5680	256	1	22.212
SF - Central - 35	Gantry Crane	500	88	0.25	1
SF - Central - 36	Axial Fan 114,000 CFM	18465	344	50	2,686
SF - Central - 36	Gantry Crane	9170	344	0.25	7
SF - Central - 38	Water Pump, 4" Electrical, Submersible	2133	961	1	2.220

SF - Central - 39	Gantry Crane	500	277	0.25	0
SF - Central - 40	Axial Fan 114,000 CFM	18491	417	50	2,219
SF - Central - 40	Gantry Crane	9181	417	0.25	6
SF - Central - 41	Gantry Crane	237	35	0.25	2
SF - Central - 42	Water Pump, 4" Electrical, Submersible	3298.7	1660	1	1.987
SF - Central - 43	Water Pump, 4" Electrical, Submersible	382.6	239	1	1.604
SF - Central - 48	Axial Fan 114,000 CFM	148764	1055	50	7,050
SF - Central - 48	Gantry Crane	44590	1055	0.25	11
SF - Central - 49	Gantry Crane	1260	69	0.25	5
SF - Central - 50	400A, Electric Welder	384	40	15	144.000
SF - Central - 51	400A, Electric Welder	400	39	15	152.727
SF - Central-3	Light Plant, 4 lite, 1000w	1864.4	253		
SF-Central-26	Light Plant, 4 lite, 1000w	20739	1355		
SF-Central-29	Light Plant, 4 lite, 1000w	67	274		
SF-Central-30	Light Plant, 4 lite, 1000w	1077.7	185		

Vehicle Inventory for Southern Complex on Byron Tract - Central
Option 7

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. ...)	# day	Vehicle Hours	Hours/Trip	# of Vehicles/Type	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/hr)
Vehicle Use on Paved Roads --- and Not on Construction Site												
SF - Central - 1	Pickup, 1/2T 2 WD	Materials from Stockton	207	3208.9	1.1	3008	14.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 1	Pickup, 3/4T, 4wd	Materials from Stockton	207	3200.0	1.1	3000	14.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 1	Truck Flatbed 4 T Highway	Materials from Stockton	207	799.7	1.1	750	3.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 1	Truck Flatbed 4 T Highway	Two Cranes and one lift from Stockton	1	3.2	1.1	3	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 2	Pickup, 1/2T 2 WD	Materials from Stockton	323	16044.4	1.1	15042	46.6	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 2	Pickup, 3/4T, 4wd	Materials from Stockton	323	16000.0	1.1	15000	46.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 2	Truck Flatbed 4 T Highway	Materials from Stockton	323	4000.3	1.1	3750	11.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 3	Pickup, 1/2T 2 WD	Materials from Stockton	253	2480.0	1.1	2325	9.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 3	Pickup, 3/4T, 4wd	Materials from Stockton	253	620.2	1.1	581	2.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 3	Truck End Dump/ 10-13cy Hwy	Materials from Stockton	253	378.7	1.1	355	1.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 3	Truck Flatbed 4 T Highway	Cone, Two Rollers, two Loaders, Tractor, Grader, and Excavator	1	8.5	1.1	8	8.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 4	Pickup, 1/2T 2 WD	Materials from Stockton	227	1761.3	1.1	1651	7.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 4	Pickup, 3/4T, 4wd	Materials from Stockton	227	545.3	1.1	511	2.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 4	Truck End Dump/ 10-13cy Hwy	Materials from Stockton	227	407.3	1.1	382	1.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 4	Truck Flatbed 4 T Highway	Materials from Stockton	227	1424.2	1.1	1335	5.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 4	Truck, Flatbed, 10T, Hwy	Materials from Stockton	227	30.4	1.1	29	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 4	Truck Flatbed 4 T Highway	Materials from Stockton	227	1944.5	1.1	1823	8.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 4	Truck End Dump/ 16-20cy Hwy	Base Rock, Asphalt, and Gravel from Vernalis	227	20193.6	0.7	28848	127	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Central - 4	Truck & Bottom Dump/ 25cy 30T	Asphalt, Hot Mix Delivered from Vernalis	227	349	0.7	499	2.2	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel Tier 4	
SF - Central - 4	Truck Flatbed 4 T Highway	Asphalt Paver and 2 Rollers from and to Stockton	2	6.4	1.1	6	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 4	Truck Flatbed 4 T Highway	One Roller and one Crane from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 5	Pickup, 1/2T 2 WD	Materials from Stockton	5	153.6	1.1	144	28.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 5	Pickup, 3/4T, 4wd	Materials from Stockton	5	100.0	1.1	94	18.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 5	Truck End Dump/ 10-13cy Hwy	Materials from Stockton	5	307.2	1.1	288	57.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 5	Truck Flatbed 4 T Highway	Materials from Stockton	5	1261.9	1.1	1183	236.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 5	Truck Flatbed 4 T Highway	Two Loaders and Tractor from Stockton	1	3.2	1.1	3	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 6	Mechanics Truck	Materials from Stockton	159	15187.2	1.1	14238	89	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 6	Pickup, 1/2T 2 WD	Materials from Stockton	159	15946.5	1.1	14950	93.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 6	Truck Flatbed 4 T Highway	Materials from Stockton	159	15187.2	1.1	14238	89.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 6	Truck End Dump/ 16-20cy Hwy	Gravel and Base rock from Vernalis	159	929.6	0.7	1328	8	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Central - 6	Truck Flatbed 4 T Highway	Materials from Stockton	159	110.9	1.1	104	0.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 6	Truck Flatbed 4 T Highway	One Loader from Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 7	Pickup, 1/2T 2 WD	Materials from Stockton	261	2892.7	1.1	2712	10.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 7	Truck End Dump/ 10-13cy Hwy	Materials from Stockton	261	576.0	1.1	540	2.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 7	Truck Flatbed 4 T Highway	Materials from Stockton	261	14976.0	1.1	14040	53.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 8	Truck Flatbed 4 T Highway	Materials from Stockton	1254	9984.0	1.1	9360	7.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 8	Truck Flatbed 10 T Highway	Materials from Stockton	1254	6877.6	1.1	6448	5.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 8	Truck Flatbed 4 T Highway	Two Cranes from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 9	Pickup, 1/2T 2 WD	Materials from Stockton	212	1534.4	1.1	1439	6.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 9	Pickup, 3/4T, 4wd	Materials from Stockton	212	80.0	1.1	75	0.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 9	Truck End Dump/ 10-13cy Hwy	Materials from Stockton	212	128.0	1.1	120	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 9	Truck Flatbed 4 T Highway	Materials from Stockton	212	256.0	1.1	240	1.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 9	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	212	38.4	1.1	36	0.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 9	Truck Flatbed 4 T Highway	Materials from Stockton	212	1043.2	1.1	978	4.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 9	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	212	6.8	0.6	12	0.1	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel	
SF - Central - 9	Truck End Dump/ 16-20cy Hwy	Gravel and Base Rock from Vernalis	212	1857.8	0.7	2654	13	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Central - 9	Truck Flatbed 4 T Highway	Loader and Crane from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 10	Truck, Flatbed, 10T, Hwy	Materials from Stockton	81	78.0	1.1	73	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 10	Pickup, 3/4T, 4wd	Materials from Stockton	81	71.2	1.1	67	0.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 11	Mechanics Truck	Materials from Stockton	283	8220.4	1.1	7707	27	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 11	Pickup, 1/2T 2 WD	Materials from Stockton	283	15116.4	1.1	14172	50.1	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 11	Pickup, 3/4T, 4wd	Materials from Stockton	283	200.4	1.1	188	0.7	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 11	Truck Flatbed 4 T Highway	Materials from Stockton	283	8220.4	1.1	7707	27.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 12	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	691	8846.8	1.1	8204	12.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 12	Pickup, 1/2T 2 WD	Materials from Stockton	691	10754.3	1.1	10082	14.6	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 12	Truck Flatbed 4 T Highway	Materials from Stockton	691	1628.8	1.1	1527	2.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 12	Truck, Flatbed, 10T, Hwy	Rebar and Steel from Livermore	691	318.5	0.6	562	0.8	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel	
SF - Central - 12	Truck End Dump/ 16-20cy Hwy	Gravel and Base Rock from Vernalis	691	79.1	0.7	113	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Central - 12	Truck Flatbed 4 T Highway	Cone, Two Excavators, and Tractor from Stockton	1	4.3	1.1	4	4.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 13	Pickup, 1/2T 2 WD	Materials from Stockton	834	5162.5	1.1	4840	5.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 13	Pickup, 3/4T, 4wd	Materials from Stockton	834	34.2	1.1	32	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 13	Truck Flatbed 4 T Highway	Materials from Stockton	834	2924.8	1.1	2742	3.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 13	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	834	1700.2	1.1	1594	1.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 13	Truck Flatbed 4 T Highway	Crane from Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 13	Truck Flatbed 4 T Highway	Materials from Stockton	834	621.9	1.1	583	0.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 13	Truck, Flatbed, 10T, Hwy	Rebar and Steel from Livermore	834	170.6	0.6	301	0.4	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel	
SF - Central - 14	Pickup, 1/2T 2 WD	Materials from Stockton	623	2395.3	1.1	2246	3.6	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 14	Truck Flatbed 4 T Highway	Materials from Stockton	623	1562.7	1.1	1465	2.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 15A	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	227	1497.6	1.1	1404	6.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 15B	Pickup, 1/2T 2 WD	Materials from Stockton	352	1521.9	1.1	1427	4.1	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Central - 15B	Pickup, 3/4T, 4wd	Materials from Stockton	352	380.5	1.1	357	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	

SF - Central - 15B	Truck Flatbed 4 T Highway	Materials from Stockton	352	591.7	1.1	555	1.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 15B	Truck's End Dump/ 16-20cy/ Hwy	Materials from Stockton	352	794.7	1.1	745	2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 15B	Truck's End Dump/ 16-20cy/ Hwy	Gravel and Base Rock from Vernalis	352	779.1	0.7	1113	3	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 15B	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	352	123.0	0.6	217	0.6	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 15B	Truck Flatbed 4 T Highway	Loader from Stockton	352	1.1	1.1	1	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 16	Pickup 1/2T 2 WD	Materials from Stockton	154	1100.8	1.1	1032	6.7	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 16	Pickup, 3/4T, 4wd	Materials from Stockton	154	72.3	1.1	68	0.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 16	Truck's End Dump/ 10-13cy/ Hwy	Cement, Aggregate, and Sand from Stockton	154	229.3	1.1	215	1.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 16	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	154	5.1	0.6	9	0.1	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 17	Pickup 1/2T 2 WD	Materials from Stockton	33	1232.0	1.1	1155	35.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 17	Pickup, 3/4T, 4wd	Materials from Stockton	33	10.9	1.1	10	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 17	Truck, Flatbed, 10T, Hwy	Rebar and Steel from Livermore	33	1.7	0.6	3	0.1	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 17	Truck's End Dump/ 16-20cy/ Hwy	Gravel and Base Rock from Vernalis	33	252.7	0.7	361	11	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 18	Pickup 1/2T 2 WD	Materials from Stockton	29	0.2	1.1	0	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 18	Pickup, 3/4T, 4wd	Materials from Stockton	29	24.2	1.1	23	0.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 18	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	29	1.1	0.6	2	0.1	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 19	Pickup 1/2T 2 WD	Materials from Stockton	336	3495.5	1.1	3277	9.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 19	Pickup, 3/4T, 4wd	Materials from Stockton	336	509.2	1.1	477	1.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 19	Truck's End Dump/ 16-20cy/ Hwy	Materials from Stockton	336	173.1	1.1	162	0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 19	Truck's End Dump/ 10-13cy/ Hwy	Materials from Stockton	336	187.5	1.1	176	0.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 19	Truck Flatbed 4 T Highway	Materials from Stockton	336	316.8	1.1	297	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 19	Truck Flatbed 10 T Highway	Materials from Stockton	336	959.9	1.1	1369	4.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 19	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	336	115.4	1.1	108	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 19	Truck's End Dump/ 16-20cy/ Hwy	Gravel and Base Rock from Vernalis	336	46.2	0.7	66	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 19	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	336	13.0	0.6	23	0.1	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 20	Truck Flatbed 10 T Highway	Materials from Stockton	715	1863.9	1.1	1747	2.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 20	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	715	710.4	1.1	666	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 20	Truck's End Dump/ 16-20cy/ Hwy	Flyash from Vernalis	715	30.5	0.7	44	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 20	Truck's End Dump/ 10-13cy/ Hwy	Cement, Aggregate, and Sand from Stockton	715	1393.9	1.1	1307	1.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 21	Pickup, 3/4T, 4wd	Materials from Stockton	926	2100.0	1.1	1969	2.1	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 22	Pickup 1/2T 2 WD	Materials from Stockton	233	2112.0	1.1	1980	8.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 22	Truck Flatbed 4 T Highway	Materials from Stockton	233	2016.0	1.1	1890	8.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 22	Truck Flatbed 10 T Highway	Materials from Stockton	233	96.0	1.1	90	0.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 22	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	233	240.0	1.1	225	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 23	Pickup 1/2T 2 WD	Materials from Stockton	201	14561.4	1.1	13651	68.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 23	Pickup, 3/4T, 4wd	Materials from Stockton	201	208.8	1.1	196	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 23	Truck's End Dump/ 16-20cy/ Hwy	Materials from Stockton	201	12621.1	1.1	11832	59	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 23	Truck's End Dump/ 10-13cy/ Hwy	Materials from Stockton	201	302.4	1.1	284	1.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 23	Truck, Flatbed, 10T, Hwy	Materials from Stockton	201	39.6	1.1	37	0.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 23	Truck's End Dump/ 16-20cy/ Hwy	Base Rock from Vernalis	201	1579.2	0.7	2256	11	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 23	Truck Flatbed 4 T Highway	Crane, Grader, and Excavator to Stockton	1	3.2	1.1	3	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 24	Truck's End Dump/ 10-13cy/ Hwy	Materials from Stockton	181	1600.0	1.1	1500	8.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 24	Truck's End Dump/ 10-13cy/ Hwy	Base Rock from Vernalis	181	583.8	0.7	834	4.6	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 24	Truck, Flatbed, 10T, Hwy	Materials from Stockton	181	60.8	1.1	57	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 25	Pickup 1/2T 2 WD	Materials from Stockton	445	21303.1	1.1	19972	44.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 25	Pickup, 3/4T, 4wd	Materials from Stockton	445	279.7	1.1	262	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 26	Pickup 1/2T 2 WD	Materials from Stockton	1355	28604.8	1.1	26817	19.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 26	Truck Flatbed 4 T Highway	Materials from Stockton	1355	20738.5	1.1	19442	14.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 26	Truck, Flatbed, 10T, Hwy	Materials from Stockton	1355	154.7	1.1	145	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 27	Pickup 1/2T 2 WD	Materials from Stockton	1749	8574.4	1.1	8039	4.6	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 27	Truck's End Dump/ 16-20cy/ Hwy	Base Rock from Vernalis	1749	650.3	0.7	929	1	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 28	Truck, Flatbed, 10T, Hwy	Materials from Stockton	2190	8301.9	1.1	7783	3.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 28	Truck, Flatbed, 4T, Hwy	Materials from Stockton	2190	13070.0	1.1	12253	5.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 29	Pickup 1/2T 2 WD	Materials from Stockton	274	3458.6	1.1	3242	11.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 29	Pickup, 3/4T, 4wd	Materials from Stockton	274	2093.1	1.1	1962	7.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 29	Truck, 400hp & 8 End Dump Tr, 28cy, 3BT	Materials from Stockton	274	3407.4	1.1	3194	11.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 29	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	274	8787.6	1.1	8238	30	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 29	Truck, Flatbed, 10T, Hwy	Materials from Stockton	274	4154.4	1.1	3895	14.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 29	Truck, Flatbed, 4T, Hwy	Materials from Stockton	274	167.0	1.1	157	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 29	Truck, Flatbed, 10T, Hwy	Materials from Stockton	274	2302.9	1.1	2159	7.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 29	Truck's End Dump/ 10-13cy/ Hwy	Base Rock, Cement, Aggregate, and Sand from Stockton	274	14392.5	1.1	13463	49.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 30	Mechanics Truck	Materials from Stockton	185	1306.7	1.1	1225	7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 30	Pickup 1/2T 2 WD	Materials from Stockton	185	1186.9	1.1	1113	6.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 30	Pickup, 3/4T, 4wd	Materials from Stockton	185	171.9	1.1	161	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 30	Truck, Flatbed, 10T, Hwy	Materials from Stockton	185	246.7	1.1	231	1.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 30	Truck Flatbed 4 T Highway	Materials from Stockton	185	1306.7	1.1	1225	6.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 30	Truck's End Dump/ 10-13cy/ Hwy	Gravel and Base Rock from Vernalis	185	996.3	1.1	934	5.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 30	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Livermore	185	29.5	0.6	52	0.3	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 30	Truck, Flatbed, 10T, Hwy	Materials from Stockton	185	236.3	0.6	417	2.3	Southern Complex on Byron Tract to/from Stockton	17	34	Diesel
SF - Central - 31	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	649	401.9	1.1	377	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 31	Pickup 1/2T 2 WD	Materials from Stockton	649	799.4	1.1	749	1.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 31	Pickup, 3/4T, 4wd	Materials from Stockton	649	33.3	1.1	31	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 31	Truck Flatbed 4 T Highway	Materials from Stockton	649	7904.1	1.1	7410	11.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 31	Truck, Flatbed, 10T, Hwy	Materials from Stockton	649	541.9	1.1	508	0.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 31	Truck, Flatbed, 10T, Hwy	Materials from Stockton	649	656.0	1.1	615	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 31	Truck's End Dump/ 10-13cy/ Hwy	Gravel and Base Rock from Vernalis	649	1111.5	1.1	1042	1.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 31	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	649	252.7	0.6	446	0.7	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel

SF - Central - 31	Truck Flatbed 4 T Highway	Loader from and to Stockton	2	2.1	1.1	2	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 32	Truck Flatbed 4 T Highway	Materials from Stockton	136	734.0	1.1	688	5.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 32	Truck, Tractor, 75000#, 6 x 4	Materials from Stockton	136	222.2	1.1	208	1.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 32	Truck Flatbed 4 T Highway	Materials from Stockton	136	227.2	1.1	213	1.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 32	Truck Flatbed 4 T Highway	Crane and Forklift from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 32	Truck Flatbed 4 T Highway	Crane to Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 33	Mechanics Truck	Materials from Stockton	256	5680.0	1.1	5325	21	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 33	Pickup, 1/2T 2 WD	Materials from Stockton	256	5680.0	1.1	5325	20.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 33	Truck Flatbed 4 T Highway	Materials from Stockton	256	5680.0	1.1	5325	20.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 33	Truck Flatbed 4 T Highway	Materials from Stockton	256	24.5	1.1	23	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 34	Truck, Flatbed, 10T, Hwy	Materials from Stockton	771	16.0	1.1	15	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 34	Truck End Dump 16-20cy Hwy	Materials from Stockton	771	3090.0	1.1	2897	3.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 34	Truck End Dump 16-20cy Hwy	Materials from Stockton	771	532.3	1.1	499	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 34	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Livermore	771	444.3	0.6	784	1.0	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 34	Truck End Dump 16-20cy Hwy	Gravel and Flyash from Vernalis	771	1638.0	0.7	2340	3.0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 34	Truck Flatbed 4 T Highway	Roller to Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 35	Truck & Bottom Dump, 21cy, 30T	Dumper	88	2179.5	1.1	2043	23.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 35	Truck Flatbed 4 T Highway	Crane to Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 36	Tunnel Utility Truck	Highway Truck	344	5103.9	1.1	4785	13.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 36	Truck, Flatbed, 10T, Hwy	Materials from Stockton	344	2590.0	1.1	2428	7.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 36	Truck Flatbed 4 T Highway	Materials from Stockton	344	28465.7	1.1	26687	77.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 36	Truck End Dump 16-20cy Hwy	Materials from Stockton	344	90.7	1.1	85	0.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 37	Tunnel Utility Truck	Highway Truck	35	174	1.1	163	4.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 37	Truck End Dump 16-20cy Hwy	Materials from Stockton	35	1236.3	1.1	1159	33.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 37	Truck & Bottom Dump 21cy 30T	Asphalt, Hot Mix Delivered from Vernalis	35	319	0.7	456	13.0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel Tier 4
SF - Central - 37	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	35	5.7	0.6	10	0.3	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 37	Truck End Dump 16-20cy Hwy	Base Rock and Gravel from Vernalis	35	2559.9	0.7	3657	104.5	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 37	Truck Flatbed 4 T Highway	Dozer and Loader to Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 38	Mechanics Truck	Materials from Stockton	961	2133.0	1.1	2000	2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 38	Truck End Dump 16-20cy Hwy	Materials from Stockton	961	3090.0	1.1	2897	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 38	Pickup, 3/4T, 4wd	Materials from Stockton	961	2133.0	1.1	2000	2.1	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 38	Truck, Flatbed, 10T, Hwy	Materials from Stockton	961	16.0	1.1	15	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 38	Truck, Flatbed, 4T, Hwy	Materials from Stockton	961	2133.0	1.1	2000	2.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 38	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	961	57.2	0.6	101	0.1	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 38	Truck Flatbed 4 T Highway	Materials from Stockton	961	109.9	1.1	103	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 39	Truck End Dump 16-20cy Hwy	Materials from Stockton	277	2185.5	1.1	2049	7.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 39	Truck End Dump 16-20cy Hwy	Materials from Stockton	277	444.8	1.1	417	1.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 39	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Livermore	277	29.5	0.6	52	0.2	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 39	Truck End Dump 16-20cy Hwy	Base Rock, Gravel, and Flyash from Vernalis	277	664.4	0.7	949	3.4	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 39	Truck Flatbed 4 T Highway	Excavator and Loader from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 40	Tunnel Utility Truck	Highway Truck	417	10210.6	1.1	9572	23.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 40	Truck, Flatbed, 10T, Hwy	Materials from Stockton	417	2504.0	1.1	2348	5.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 41	Tunnel Utility Truck	Highway Truck	35	174	1.1	163	4.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 41	Pickup 1/2T 2 WD	Materials from Stockton	35	4531.4	1.1	4248	121.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 41	Pickup, 3/4T, 4wd	Materials from Stockton	35	242.0	1.1	227	6.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 41	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	35	21.5	0.6	38	1.1	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 41	Truck End Dump 16-20cy Hwy	Gravel and Flyash from Vernalis	35	456.8	0.7	653	18.6	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 41	Truck Flatbed 4 T Highway	Crane and Tractor to Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 42	Mechanics Truck	Materials from Stockton	1660	3298.7	1.1	3093	2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 42	Pickup 1/2T 2 WD	Materials from Stockton	1660	3298.7	1.1	3093	1.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 42	Truck, Flatbed, 10T, Hwy	Materials from Stockton	1660	372.0	1.1	349	0.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 42	Truck Flatbed 4 T Highway	Materials from Stockton	1660	3298.7	1.1	3093	1.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 42	Truck & Bottom Dump 21cy 30T	Materials from Stockton	1660	3492.0	1.1	3274	2	Bartholmew PR to/from Stockton	32	64	Diesel Tier 4
SF - Central - 42	Truck End Dump 16-20cy Hwy	Materials from Stockton	1660	227.2	1.1	213	0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 42	Truck Flatbed 4 T Highway	Loader and three Cranes to Stockton	1	4.3	1.1	4	4.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 43	Truck, Flatbed, 10T, Hwy	Materials from Stockton	239	15.3	1.1	14	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 43	Truck End Dump 16-20cy Hwy	Materials from Stockton	239	16.0	1.1	15	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 43	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Livermore	239	145.1	0.6	256	1.1	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 43	Truck Flatbed 4 T Highway	Two Excavators, two Loaders, Roller, Dozer, and Scraper to Stockton	1	7.5	1.1	7	7.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 43	Truck Flatbed 4 T Highway	Excavator from and to Stockton	2	2.1	1.1	2	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 44	Truck, Flatbed, 10T, Hwy	Materials from Stockton	91	1518.0	1.1	1423	15.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 44	Truck Flatbed 4 T Highway	Crane to Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 45	Truck, Flatbed, 10T, Hwy	Materials from Stockton	165	2820.7	1.1	2644	16.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 45	Truck Flatbed 4 T Highway	Two Loaders, Grader, Dozer, Sld Loader, and Roller to Stockton	1	6.4	1.1	6	6.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 46	Truck End Dump 16-20cy Hwy	Materials from Stockton	443	3445.0	1.1	3230	7.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 46	Truck, Flatbed, 10T, Hwy	Materials from Stockton	443	97.4	1.1	91	0.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 46	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Livermore	443	48.2	0.6	85	0.2	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 46	Truck End Dump 16-20cy Hwy	Materials from Stockton	443	194.1	1.1	182	0.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 46	Truck Flatbed 4 T Highway	Two Cranes and a Forklift to Stockton	1	3.2	1.1	3	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 47	Truck Flatbed 4 T Highway	Excavator, Tractor, Grader, Scraper, Loader, and two Dozers to Stockton	1	7.5	1.1	7	7.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel

SF - Central - 48	Truck, Flatbed, 10T, Hwy	Materials from Stockton	1055	90440.0	1.1	84788	80.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 48	Truck, Flatbed, 10T, Hwy	Materials from Stockton	1055	80.0	1.1	183	0.2	Southern Complex on Byron Tract to/from Livemore	32	64	Diesel
SF - Central - 48	Truck Flatbed 4 T Highway	LRT, two Rollers, Paver, Excavator, and Loader to Stockton	1	6.4	1.1	6	6.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 49	Tunnel Utility Truck	Highway Truck	69	746.7	1.1	700	10.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 49	Truck Flatbed 4 T Highway	Crane and Tractor to Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 50	Pickup 1/2T 2 WD	Materials from Stockton	40	384.0	1.1	360	9.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 51	Pickup 1/2T 2 WD	Materials from Stockton	39	400.0	1.1	375	9.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 52	Pickup 1/2T 2 WD	Materials from Stockton	2593	17104.9	1.1	16036	6.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 53	Truck & Bottom Dump' 21cy' 30T	Asphalt, Hot Mix Delivered from Vernalls	11	491	0.7	702	65.5	Southern Complex on Byron Tract to/from Vernalls	21	42	Diesel Tier 4
SF - Central - 54	Truck & Bottom Dump' 21cy' 30T	Asphalt, Hot Mix Delivered from Vernalls	10	489	0.7	699	69.9	Southern Complex on Byron Tract to/from Vernalls	21	42	Diesel Tier 4
SF - Central - 55	Pickup 1/2T 2 WD	Materials from Stockton	239	200.0	1.1	188	0.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 55	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	239	4000.0	1.1	3750	16	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 55	Truck, Flatbed, 10T, Hwy	Materials from Stockton	239	113.3	0.6	200	0.8	Southern Complex on Byron Tract to/from Stockton	17	34	Diesel

Vehicle Use on Ungaved/Dirty Surface (no access roads at park and ride lots) — on the Construction Site										Miles On-Site	
SF - Central - 3	CAT 770, Articulated End dump	Dumper	253	233.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1166	Diesel or Hybrid	
SF - Central - 3	Articulated Rear Dump 22 CV/CAT 730	Dumper	253	2181.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	10907	Diesel or Hybrid	
SF - Central - 3	Truck & Bottom Dump, 21cy, 30T	Dumper	253	2408.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	12045	Diesel	
SF - Central - 4	CAT 770, Articulated End dump	Dumper	227	101.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	509	Diesel or Hybrid	
SF - Central - 4	Articulated Rear Dump 22 CV/CAT 735	Dumper	227	1069.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	5347	Diesel or Hybrid	
SF - Central - 5	Cat 770, S119P	Dumper	5	100.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	500	Diesel or Hybrid	
SF - Central - 5	Articulated Rear Dump 22 CV/CAT 735	Dumper	5	199.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1000	Diesel or Hybrid	
SF - Central - 9	Articulated Rear Dump 22 CV/CAT 730	Dumper	212	160.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	800	Diesel or Hybrid	
SF - Central - 9	Trailer, Lowboy, 50T	Off-Highway Truck	212	38.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	192	Diesel	
SF - Central - 9	CAT735, 35T, Articulated End Dump	Dumper	212	72	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	360	Diesel or Hybrid	
SF - Central - 9	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	212	1680.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	8400	Diesel	
SF - Central - 10	CAT735, 35T, Articulated End Dump	Dumper	81	71	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	356	Diesel or Hybrid	
SF - Central - 10	Cat 770, S119P	Dumper	81	71.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid	
SF - Central - 10	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	81	468.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2340	Diesel	
SF - Central - 11	Articulated Rear Dump 22 CV/CAT 730	Dumper	283	32881.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	164408	Diesel or Hybrid	
SF - Central - 11	CAT 770 Dump	Dumper	283	200	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1002	Diesel or Hybrid	
SF - Central - 11	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	283		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel	
SF - Central - 12	Trailer, Lowboy, 50T	Off-Highway Truck	691	8846.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	44214	Diesel	
SF - Central - 12	CAT 740 40T, Articulated End dump	Dumper	691	2537.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	12686	Diesel or Hybrid	
SF - Central - 12	Tremie Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	691	13692.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	68460	Diesel	
SF - Central - 13	Trailer, Lowboy, 50T	Off-Highway Truck	834	1632.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	8161	Diesel	
SF - Central - 13	CAT 770 Dump	Dumper	834	33	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	165	Diesel or Hybrid	
SF - Central - 13	Articulated Rear Dump 22 CV/CAT 730	Dumper	834	7483.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	37419	Diesel or Hybrid	
SF - Central - 13	CAT 740 40T, Articulated End dump	Dumper	834	235.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1178	Diesel or Hybrid	
SF - Central - 13	Articulated Rear Dump 22 CV/CAT 735	Dumper	834	986.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	4930	Diesel or Hybrid	
SF - Central - 13	CAT773, S3 7T, End Dump	Dumper	834	1532.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	7661	Diesel or Hybrid	
SF - Central - 13	Tremie Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	834	2914.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	14572	Diesel	
SF - Central - 14	CAT 740 40T, Articulated End dump	Dumper	623	2386.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	11934	Diesel or Hybrid	
SF - Central - 14	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	623	3651.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	18256	Diesel	
SF - Central - 15A	Trailer, Lowboy, 50T	Off-Highway Truck	227	5990.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	29952	Diesel	
SF - Central - 15B	CAT 770 Dump	Dumper	352	381	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1903	Diesel or Hybrid	
SF - Central - 15B	Articulated Rear Dump 22 CV/CAT 730	Dumper	352	591.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2959	Diesel or Hybrid	
SF - Central - 15B	Articulated Rear Dump 22 CV/CAT 735	Dumper	352	7114.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	35573	Diesel or Hybrid	
SF - Central - 15B	Tremie Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	352	2198.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	10992	Diesel	
SF - Central - 16	Articulated Rear Dump 22 CV/CAT 730	Dumper	154	144.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	723	Diesel or Hybrid	
SF - Central - 16	Tremie Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	154	273.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1366	Diesel	
SF - Central - 17	Articulated Rear Dump 22 CV/CAT 730	Dumper	33	22.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	114	Diesel or Hybrid	
SF - Central - 18	Articulated Rear Dump 22 CV/CAT 730	Dumper	29	48.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	242	Diesel or Hybrid	
SF - Central - 18	Concrete Pump Truck	Off-Highway Truck	29	20.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	100	Diesel	
SF - Central - 19	CAT 770 Dump	Dumper	336	1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3	Diesel or Hybrid	
SF - Central - 19	Articulated Rear Dump 22 CV/CAT 730	Dumper	336	269.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1347	Diesel or Hybrid	
SF - Central - 19	CAT 740 40T, Articulated End dump	Dumper	336	12.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	64	Diesel or Hybrid	
SF - Central - 19	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	336	732.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3665	Diesel	
SF - Central - 20	Tremie Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	715	1982.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	9910	Diesel	
SF - Central - 22	Trailer, Lowboy, 50T	Off-Highway Truck	233	240.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1200	Diesel	

SF - Central - 23	Articulated Rear Dump 22 CV/CAT 730	Dumper	201	5595.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	27977	Diesel or Hybrid
SF - Central - 23	Articulated Rear Dump 22 CV/CAT 735	Dumper	201	484.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2422	Diesel or Hybrid
SF - Central - 24	Tremie Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	181		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 25	Articulated Rear Dump 22 CV/CAT 735	Dumper	445	31626	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	158130	Diesel or Hybrid
SF - Central - 26	CAT 770 Dump	Dumper	1355	11203	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	56014	Diesel or Hybrid
SF - Central - 26	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	1355		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 27	CAT 769, 41.6T End Dump	Dumper	1749	34297.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
SF - Central - 28	Cat 770, 5.11HP	Dumper	2190		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
SF - Central - 28	Cat 745 43T, Articulated End Dump	Dumper	2190		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
SF - Central - 29	CAT735, 35T, Articulated End Dump	Dumper	274	8184	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	40972	Diesel or Hybrid
SF - Central - 29	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	274		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 30	Cat 770, 5.11HP	Dumper	185	134.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	674	Diesel or Hybrid
SF - Central - 30	Articulated Rear Dump 22 CV/CAT 730	Dumper	185	3081.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	15406	Diesel or Hybrid
SF - Central - 30	CAT735, 35T, Articulated End Dump	Dumper	185	287	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1435	Diesel or Hybrid
SF - Central - 30	Trailer, Lowboy, 50T	Off-Highway Truck	185	150.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2750	Diesel
SF - Central - 30	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	185		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 31	Trailer, Lowboy, 50T	Off-Highway Truck	649	401.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2010	Diesel
SF - Central - 31	Articulated Rear Dump 22 CV/CAT 730	Dumper	649	15991.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	69956	Diesel or Hybrid
SF - Central - 31	Cat 770, 5.11HP	Dumper	649	205.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1027	Diesel or Hybrid
SF - Central - 31	CAT 740 40T, Articulated End dump	Dumper	649	610.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3050	Diesel or Hybrid
SF - Central - 31	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	649		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 32	Trailer, Lowboy, 50T	Off-Highway Truck	136	222.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1111	Diesel
SF - Central - 32	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	136		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 34	CAT 740 40T, Articulated End dump	Dumper	771	639.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3195	Diesel or Hybrid
SF - Central - 35	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	88		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 36	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	344	2432.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	12160	Diesel
SF - Central - 37	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	35		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 37	Trailer, Lowboy, 50T	Off-Highway Truck	35		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 38	Articulated Rear Dump 22 CV/CAT 730	Dumper	961	639.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3195	Diesel or Hybrid
SF - Central - 39	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	277		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 41	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	35		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Central - 43	Articulated Rear Dump 22 CV/CAT 730	Dumper	239	1537.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2688	Diesel or Hybrid
SF - Central - 43	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	239	1543.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	7720	Diesel
SF - Central - 45	Articulated Rear Dump 22 CV/CAT 730	Dumper	165	1334.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	6673	Diesel or Hybrid
SF - Central - 46	Articulated Rear Dump 22 CV/CAT 730	Dumper	443	1296.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	6482	Diesel or Hybrid
SF - Central - 46	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	443	1298.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	6492	Diesel
SF - Central - 55	CAT 740 40T, Articulated End dump	Dumper	239	200.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1000	Diesel or Hybrid

**Employees Required to Southern Complex on Byron Tract - Central
Option 7**

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
SF - Central - 1	Carpenter Apprentice	8.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 1	Carpenter Foreman	8.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 1	Carpenter Journeyman	17.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 1	Electrical Foreman	4.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 1	Electrical Journeyman	17.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 1	Iron Worker Journeyman	17.8				32
SF - Central - 1	Rebar/Struct		10		Stockton to/from Southern Complex on Byron Tract	
SF - Central - 1	Laborer G2 General	3217.8	10		Stockton to/from Southern Complex on Byron Tract	32
						32
SF - Central - 1	Operator G3a Cranes 45 t and under	328.8	10		Stockton to/from Southern Complex on Byron Tract	
SF - Central - 1	Teamster G1 Hwy ED<6cy, Flatbed	799.7	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 1	Teamster G3 Boom Truck	4.4	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-1						
SF - Central - 2	Carpenter Apprentice	44.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Carpenter Foreman	44.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Carpenter Journeyman	88.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Electrical Foreman	22.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Electrician Journeyman	88.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Iron Worker Journeyman Rebar/Stru	88.89	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Laborer G2 General	16088.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Operator G3a Cranes 45 t and under	1644.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Teamster G1 Hwy ED<6cy, Flatbed	4000.28	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 2	Teamster G3 Boom Truck	22.22	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-2						
SF - Central - 3	Laborer G1 Pipe layers	757.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Laborer G1 Power Tamper	378.7	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Laborer G2 General	4903.5	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Laborer G3 Flagman	1240.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Operator G3 Loader >4cy	328.5	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Operator G2a Cranes 45 to 100 t	2423.76	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	OPERATING ENGINEER FOREMAN	2480	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Operator G2 Excavator 3.5 to 7.0	363.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Operator G2 Finish Blade	853.3	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Operator G3 BH-Loader>3/4cy	2613.1	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Operator G4 Dozer & Push Cat	1799.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Operator G4 Grade Check	1211.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Operator G5 Compactor w-blade	1086.3	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Teamster G2 Hwy ED 6-8cy, Wate	1604.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 3	Teamster G3 ED 8-24cy, Water>7	4895.3	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-3						
			150			
SF - Central - 4	Laborer Foreman	30.44	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Laborer G1 Pipe layers	401.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Laborer G3 Bridge labor	5696.96	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Laborer G1 Power Tamper	140	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Laborer G2 General	1412.5	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Laborer G3 Flagman	1090.5	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	OPERATING ENGINEER FOREMAN	2653.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G2 Finish Blade	646.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G1a Cranes>100 t	1424.24	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G2 Excavator 3.5 to 7.0 cy	267.34	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G2a Cranes 45 to 100 t	1424.24	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G3 BH-Loader>3/4cy	407.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G4 Dozer & Push Cat	470.7	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G4 Grade Check	857.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G4 Loader <4.1cy	70	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G4a Boom truck<15 ton	35.14	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G5 Asphalt Roller	623.78	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G5 Compactor w-blade	203.35	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G5 Paver	311.89	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G7 Roller, Compactor	545.26	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Operator G8 Generator	109.05	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Pile Driver Wharf and Dock	5696.96	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Teamster G1 Hwy ED<6cy, Flatbed	1469.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Teamster G2 Hwy ED 6-8cy, Water<7	1123.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Teamster G3 Boom Truck	35.14	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 4	Teamster G3 ED 8-24cy, Water>7mg;	1069.4	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-4						
SF - Central - 5	Laborer G2 General	307.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Laborer G3 Flagman	307.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	OPERATING ENGINEER FOREMAN	253.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Operator G2 Finish Blade	199.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Operator G3 Loader >4cy	100	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Operator G4 Dozer & Push Cat	307.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Operator G4 Grade Check	104.1	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Operator G4 Loader <4.1cy	253.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Operator G4 Trim Machine	76.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Operator G5 Compactor w-blade	100	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Teamster G2 Hwy ED 6-8cy, Water<7	153.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Teamster G3 ED 8-24cy, Water>7mg;	507.1	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 5	Teamster G4 Water Tanker, Off Hwy	100	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-5						
SF - Central - 6	Carpenter Apprentice	759.3	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Carpenter Foreman	759.3	10		Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 6	Carpenter Journeyman	1518.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Electrical Foreman	189.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Electrician Journeyman	759.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Iron Worker Journeyman Rebar/Stru	1518.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Laborer G2 General	47080.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	OPERATING ENGINEER FOREMAN	15187.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Operator G2 Plant Operator	30374.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Operator G3 BH-Loader>3/4cy	15187.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Operator G3a Cranes 45 t and under	15187.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Operator G4 Grade Check	15187.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Operator G4 Hvy Duty Mechanic	15187.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Operator G4a Boom truck<15 ton	759.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Teamster G1 Hwy ED<6cy, Flatbed	1518.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Teamster G2 Hwy ED 6-8cy, Water<7	1518.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 6	Teamster G3 Boom Truck	379.7	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-6					
SF - Central - 7	Carpenter Apprentice	2815.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Carpenter Foreman	2815.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Carpenter Journeyman	5496.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Electrical Foreman	1078.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Electrician Journeyman	3525.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Iron Worker Journeyman Rebar/Stru	5631.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Laborer Foreman	8256	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Laborer G1 Pipe layers	1536	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Laborer G2 General	38732.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	OPERATING ENGINEER FOREMAN	76.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G2 Finish Blade	76.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G2a Cranes 45 to 100 t	1577.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G4 BH-Loader <.76cy	1536	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G4 Dozer & Push Cat	76.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G4 Grade Check	76.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G4 Loader <4.1cy	7488	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G4 Scraper	153.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G4a Boom truck<15 ton	1441	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G6 Tractor	3744	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Operator G7 Roller, Compactor	76.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Teamster G2 Hwy ED 6-8cy, Water<7	844.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Teamster G3 Boom Truck	1407.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 7	Teamster G1 Hwy ED<6cy, Flatbed	14976	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-7					
SF - Central - 8	Carpenter Journeyman	12735	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Electrician Journeyman	12735	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Laborer Foreman	6877.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Laborer G4 Clean-up	13755.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Operator G1a Cranes>100 t	39936	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Operator G2 Finish Blade	1375.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Operator G3 BH-Loader>3/4cy	6877.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Operator G4 Hvy Duty Mechanic	9984	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Operator G5 Compactor w-blade	1375.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Operator G5 Concrete Pump	4992	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Operator G7 Oiler	29952	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 8	Teamster G1 Hwy ED<6cy, Flatbed	16861.6	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-8					
SF - Central - 9	Carpenter Apprentice	960	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Carpenter Foreman	1225.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Carpenter Journeyman	3796	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Cement Mason Foreman	115.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Cement Mason Journeyman	603.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Electrical Foreman	960	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Electrician Journeyman	4864	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Iron Worker Foreman	345.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Iron Worker Journeyman Rebar/Stru	8179.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Laborer Foreman	665.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Laborer G1 Pipe layers	1024	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Laborer G1 Vibrator, Green Cutter	192	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Laborer G2 Concrete Laborer	288	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Laborer G2 General	4630	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Laborer G2 High Pressure Nozzlemar	57.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	OPERATING ENGINEER FOREMAN	104	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G1a Cranes>100 t	38.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G2 Excavator 3.5 to 7.0 cy	24	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G2 Finish Blade	6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G2a Cranes 45 to 100 t	182.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G3 BH-Loader>3/4cy	512	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G3 Loader >4cy	630.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G3a Cranes 45 t and under	960	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G4 Dozer & Push Cat	104	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G4 Grade Check	104	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G4 Hvy Duty Mechanic	72	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G4a Boom truck<15 ton	960	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G5 Compactor w-blade	80	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Operator G7 Oiler	38.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Pile Driver Foreman	38.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Pile Driver Journeyman	192	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Teamster G1 Hwy ED<6cy, Flatbed	256	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Teamster G2 Hwy ED 6-8cy, Water<7	302	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Teamster G3 Boom Truck	960	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Teamster G3 ED 8-24cy, Water>7mg;	1680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Teamster G4 ED 25-65 Cy	232	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 9	Teamster G4 Tractor, Lowbed/Trailer	38.4	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-9			370		
SF - Central - 10	Carpenter Foreman	308	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Compactor Journeyman	42020.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Cement Mason Foreman	384.8	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 10	Cement Mason Journeyman	2434.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Iron Worker Foreman	298.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Iron Worker Journeyman Rebar/Stru	2086.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Laborer Foreman	110.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Laborer G1 Vibrator, Green Cutter	220.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Laborer G2 Concrete Laborer	331.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Laborer G2 General	2104	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	OPERATING ENGINEER FOREMAN	71.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Operator G2 Finish Blade	71.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Operator G2a Cranes 45 to 100 t	312	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Operator G3 Loader >4cy	71.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Operator G4 Hvy Duty Mechanic	78	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Operator G5 Compactor w-blade	71.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Teamster G1 Hwy ED<6cy, Flatbed	78	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 10	Teamster G3 ED 8-24cy, Water>7mgi	610.4	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-10					
SF - Central - 11	Carpenter Apprentice	890	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Carpenter Foreman	890	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Carpenter Journeyman	1780	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Electrical Foreman	222.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Electrician Journeyman	890	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Iron Worker Foreman	8222.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Iron Worker Journeyman Rebar/Stru	13909.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Laborer Foreman	8221.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Laborer G2 Concrete Laborer	49328.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Laborer G2 General	71582.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	OPERATING ENGINEER FOREMAN	15454.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G1a Cranes>100 t	23476.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G2 Finish Blade	400.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G2 Micro Tunnel	16441.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G2a Cranes 45 to 100 t	16441.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G3 BH-Loader>3/4cy	8220.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G3 Loader >4cy	8420.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G4 Dozer & Push Cat	8220.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G4 Grade Check	8420.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G4 Hvy Duty Mechanic	8220.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G4 Loader <4.1cy	200.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G4a Boom truck<15 ton	890	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G5 Compactor w-blade	200.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G5 Drilling & Boring Mach	192	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Operator G7 Oiler	40110.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Teamster G1 Hwy ED<6cy, Flatbed	8220.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Teamster G3 Boom Truck	445	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Teamster G3 ED 8-24cy, Water>7mgi	33282.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 11	Teamster G4 Water Tanker, Off Hwy	200.4	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-11					
SF - Central - 12	Carpenter Foreman	3423	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Carpenter Journeyman	22719	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Cement Mason Foreman	913.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Cement Mason Journeyman	3567.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Iron Worker Foreman	16534	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Iron Worker Journeyman Rebar/Stru	112596	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Laborer Foreman	8221.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Laborer G1 Vibrator, Green Cutter	2126.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Laborer G2 Concrete Laborer	12803.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Laborer G2 General	46837.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Laborer G2 High Pressure Nozzlemar	4488	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	OPERATING ENGINEER FOREMAN	4004	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G1a Cranes>100 t	16252.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G2 Excavator 3.5 to 7.0 cy	3249.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G2 Finish Blade	130.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G2 Plant Operator	153.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G2a Cranes 45 to 100 t	7235.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G3 Loader >4cy	260.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G3a Cranes 45 t and under	361.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G4 Dozer & Push Cat	1385.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G4 Hvy Duty Mechanic	7983	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G5 Compactor w-blade	260.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G6 Screedman	206.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G6 Tractor	260.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G7 Oiler	16252.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Operator G8a Skidsteer <Bobcat 743	266.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Teamster G2 Hwy ED 6-8cy, Water<7	331.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Teamster G3 ED 8-24cy, Water>7mgi	13692	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Teamster G4 ED 25-65 Cy	9284.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 12	Teamster G4 Tractor, Lowbed/Trailer	8846.8	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-12					
SF - Central - 13	Carpenter Apprentice	213.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Carpenter Foreman	6144.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Carpenter Journeyman	29585.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Cement Mason Foreman	700.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Cement Mason Journeyman	2760.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Electrical Foreman	1434.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Electrical Lineman	1382.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Electrician Journeyman	208.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Iron Worker Foreman	6985.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Iron Worker Journeyman Rebar/Stru	50614.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Iron Worker-Rigger	488.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Laborer Foreman	5178.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Laborer G1 Vibrator, Green Cutter	1942.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Laborer G2 Concrete Laborer	17061.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Laborer G2 General	46369.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Laborer G2 High Pressure Nozzlemar	761.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Laborer G3 Flagman	460.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Millwright	5529.6	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 13	OPERATING ENGINEER FOREMAN	4682.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G1a Cranes>100 t	117971.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G2 Excavator 3.5 to 7.0 cy	289	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G2 Finish Blade	152.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G2 Micro Tunnel	3743.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G2a Cranes 45 to 100 t	7995.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G3 BH-Loader>3/4cy	1870.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G3 Loader >4cy	1962.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G4 Dozer & Push Cat	2413.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G4 Grade Check	2018.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G4 Hvy Duty Mechanic	2262.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G4 Loader <4.1cy	32.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G4a Boom truck<15 ton	208.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G5 Compactor w-blade	91.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G6 Screedman	164.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G6 Tractor	58.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G7 Oiler	17405.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Operator G8a Skidsteer <Bobcat 743	87	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Pipefitter Foreman	1382.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Pipefitter Journeyman	1382.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Teamster G1 Hwy ED<6cy, Flatbed	2807.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Teamster G2 Hwy ED 6-8cy, Water<7	159.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Teamster G3 Boom Truck	104.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Teamster G3 ED 8-24cy, Water>7mg	10463.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Teamster G4 ED 25-65 Cy	2679	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Teamster G4 Tractor, Lowbed/Trailer	1632.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 13	Teamster G4 Water Tanker, Off Hwy	32.9	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-13					
SF - Central - 14	Carpenter Apprentice	19.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Carpenter Foreman	9183.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Carpenter Journeyman	52660.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Cement Mason Foreman	2253	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Cement Mason Journeyman	11398.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Electrical Foreman	96	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Electrical Lineman	96	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Iron Worker Foreman	7436.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Iron Worker Journeyman Rebar/Stru	48201.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Iron Worker Rigger	191.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Laborer Foreman	3056.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Laborer G1 Vibrator, Green Cutter	1722.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Laborer G2 Concrete Laborer	6465.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Laborer G2 General	37852.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Laborer G2 High Pressure Nozzlemar	817	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Millwright	768	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	OPERATING ENGINEER FOREMAN	921.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G1a Cranes>100 t	7381.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G2 Excavator 3.5 to 7.0 cy	1354.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G2 Finish Blade	244.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G2a Cranes 45 to 100 t	3569.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G3 Loader >4cy	488.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G4 Dozer & Push Cat	488.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G4 Hvy Duty Mechanic	757.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G4 Loader <4.1cy		10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G5 Compactor w-blade	488.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G6 Screedman	332.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G6 Tractor	488.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G7 Oiler	7764.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Operator G8a Skidsteer <Bobcat 743	1378	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Pile Driver Foreman	156.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Pile Driver Journeyman	938.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Pipefitter Foreman	96	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Pipefitter Journeyman	96	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Teamster G1 Hwy ED<6cy, Flatbed	196.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Teamster G2 Hwy ED 6-8cy, Water<7	1500.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Teamster G3 ED 8-24cy, Water>7mg	3651.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 14	Teamster G4 ED 25-65 Cy	2386.8	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-14					
SF - Central - 15A	Operator G1a Cranes>100 t	2995.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15A	Operator G3 BH-Loader>3/4cy	2995.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15A	Operator G7 Oiler	2995.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15A	Pipefitter Apprentice	11980	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15A	Pipefitter Foreman	2995.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15A	Pipefitter Journeyman	17971.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15A	Teamster G4 Tractor, Lowbed/Trailer	1497.6	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-15					
SF - Central - 15B	Carpenter Apprentice	76.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Carpenter Foreman	2698	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Carpenter Journeyman	16039.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Cement Mason Foreman	561.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Cement Mason Journeyman	2574.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Electrical Foreman	19.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Electrician Journeyman	76.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Iron Worker Foreman	6292.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Iron Worker Journeyman Rebar/Stru	44531.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Laborer Foreman	2083.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Laborer G1 Vibrator, Green Cutter	1120	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Laborer G2 Concrete Laborer	4396.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Laborer G2 General	14507	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Laborer G2 High Pressure Nozzlemar	2201.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	OPERATING ENGINEER FOREMAN	2166.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G1a Cranes>100 t	2912.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G2 Excavator 3.5 to 7.0 cy	1194.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G2 Finish Blade	1059.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G2 Micro Tunnel	172.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G2 Plant Operator	591.7	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 15B	Operator G2a Cranes 45 to 100 t	1626	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G3 BH-Loader>3/4cy	592.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G3 Loader >4cy	972.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G3a Cranes 45 t and under	591.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G4 Dozer & Push Cat	2980.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G4 Grade Check	1575.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G4 Hvy Duty Mechanic	215.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G4a Boom truck<15 ton	38.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G5 Compactor w-blade	380.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G6 Screedman	80.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G7 Oiler	3677.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Operator G8a Skidsteer <Bobcat 743	250.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Teamster G1 Hwy ED<6cy, Flatbed	591.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Teamster G2 Hwy ED 6-8cy, Water<7	1140.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Teamster G3 Boom Truck	38.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Teamster G3 ED 8-24cy, Water>7mgi	2198.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Teamster G4 ED 25-65 Cy	7706.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 15B	Teamster G4 Water Tanker, Off Hwy	380.5	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Central-15

SF - Central - 16	Carpenter Apprentice	1100.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Carpenter Foreman	1207.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Carpenter Journeyman	3040.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Cement Mason Foreman	136	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Cement Mason Journeyman	772.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Electrical Foreman	1100.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Electrician Journeyman	2201.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Iron Worker Foreman	247.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Iron Worker Journeyman Rebar/Stru	3935.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Laborer Foreman	106.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Laborer G1 Vibrator, Green Cutter	182.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Laborer G2 Concrete Laborer	546.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Laborer G2 General	3695.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Laborer G2 High Pressure Nozzleman	15.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	OPERATING ENGINEER FOREMAN	72.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G1a Cranes>100 t	289.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G2a Cranes 45 to 100 t	289.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G3 Loader >4cy	72.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G3a Cranes 45 t and under	1100.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G4 Dozer & Push Cat	72.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G4 Grade Check	72.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G4 Hvy Duty Mechanic	72.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G4a Boom truck<15 ton	1100.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G5 Compactor w-blade	72.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G6 Screedman	91.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Operator G7 Oiler	289.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Teamster G2 Hwy ED 6-8cy, Water<7	36.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Teamster G3 Boom Truck	1100.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Teamster G3 ED 8-24cy, Water>7mgi	273.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 16	Teamster G4 ED 25-65 Cy	144.5	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Central-16

SF - Central - 17	Carpenter Apprentice	1232	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Carpenter Foreman	1267.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Carpenter Journeyman	2714.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Cement Mason Foreman	30.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Cement Mason Journeyman	189	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Electrical Foreman	1232	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Electrician Journeyman	2464	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Iron Worker Foreman	85	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Iron Worker Journeyman Rebar/Stru	3058.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Laborer Foreman	34.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Laborer G1 Vibrator, Green Cutter	49	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Laborer G2 Concrete Laborer	73.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Laborer G2 General	2848.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Laborer G2 High Pressure Nozzleman	9.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	OPERATING ENGINEER FOREMAN	10.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G1a Cranes>100 t	77.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G2a Cranes 45 to 100 t	77.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G3 Loader >4cy	10.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G3a Cranes 45 t and under	1232.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G4 Dozer & Push Cat	10.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G4 Grade Check	10.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G4 Hvy Duty Mechanic	19.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G4a Boom truck<15 ton	1232.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G5 Compactor w-blade	10.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G6 Screedman	24.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Operator G7 Oiler	77.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Teamster G2 Hwy ED 6-8cy, Water<7	5.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Teamster G3 Boom Truck	1232.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Teamster G3 ED 8-24cy, Water>7mgi	36.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 17	Teamster G4 ED 25-65 Cy	21.8	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Central-17

SF - Central - 18	Carpenter Foreman	32.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Carpenter Journeyman	225.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Cement Mason Foreman	19.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Cement Mason Journeyman	113.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Electrical Foreman	0.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Electrician Journeyman	0.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Iron Worker Foreman	46.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Iron Worker Journeyman Rebar/Stru	322.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Laborer Foreman	18.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Laborer G1 Vibrator, Green Cutter	26.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Laborer G2 Concrete Laborer	40	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Laborer G2 General	236.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Laborer G2 High Pressure Nozzleman	5.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Millwright	0.4	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 18	OPERATING ENGINEER FOREMAN	24.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G1a Cranes>100 t	42.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G2a Cranes 45 to 100 t	42.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G3 Loader >4cy	24.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G3a Cranes 45 t and under		10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G4 Dozer & Push Cat	24.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G4 Grade Check	24.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G4 Hvy Duty Mechanic	10.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G4a Boom truck<15 ton	0.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G5 Compactor w-blade	24.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Operator G7 Oiler	42.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Teamster G2 Hwy ED 6-8cy, Water<7	12.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Teamster G3 Boom Truck	0.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Teamster G3 ED 8-24cy, Water>7mg;	20.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 18	Teamster G4 ED 25-65 Cy	48.4	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-18					
SF - Central - 19	Carpenter Apprentice	22198.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Carpenter Foreman	2438.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Carpenter Journeyman	6058.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Cement Mason Foreman	282.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Cement Mason Journeyman	1948.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Electrical Foreman	2343.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Electrician Lineman	145.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Electrician Journeyman	4396.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Iron Worker Foreman	665.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Iron Worker Journeyman Rebar/Stru	9053.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Laborer Foreman	2017.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Laborer G1 Pipe Layers	1499.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Laborer G1 Vibrator, Green Cutter	488.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Laborer G2 Concrete Laborer	2214.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Laborer G2 General	15146.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Laborer G2 High Pressure Nozzle	57.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Laborer G3 Flagman	57.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	OPERATING ENGINEER FOREMAN	230.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G1a Cranes>100 t	387.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G2 Excavator 3.5 to 7.0 cy	2.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G2 Finish Blade	60.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G3a Cranes 45 t and under	775.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G3 BH-Loader>3/4cy	1330.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G3 Loader >4cy	884.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G3a Cranes 45 t and under	2198.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G4 Dozer & Push Cat	139.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G4 Grade Check	173	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G4 Hvy Duty Mechanic	193.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G4 Loader <4.1cy	57.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G4a Boom truck<15 ton	2198.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G5 Asphalt Roller	71.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G5 Compactor w-blade	194.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G5 Curb & Gutter Conc Fini	249.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G5 Paver	35.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G6 Screedman	244.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G6 Tractor	0.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G7 Oiler	775.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G8 Pump	12	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Operator G8a Skidsteer <Bobcat 743	1115.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Teamster G1 Hwy ED<6cy, Flatbed	1276.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Teamster G2 Hwy ED 6-8cy, Water<7	976.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Teamster G3 Boom Truck	906	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Teamster G3 ED 8-24cy, Water>7mg;	282	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 19	Teamster G4 ED 25-65 Cy	115.4	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-19					
SF - Central - 20	Carpenter Apprentice	4586.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Carpenter Foreman	12137	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Carpenter Journeyman	57197.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Cement Mason Foreman	1649.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Cement Mason Journeyman	6263.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Electrical Foreman	5306.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Electrician Journeyman	15200.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Iron Worker Foreman	6207.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Iron Worker Journeyman Rebar/Stru	46985.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Laborer Foreman	2106.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Laborer G1 Vibrator, Green Cutter	1321.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Laborer G2 Concrete Laborer	3963.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Laborer G2 General	39573.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Laborer G2 High Pressure Nozzle	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Operator G1a Cranes>100 t	6429	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Operator G3a Cranes 45 t and under	6991.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Operator G4 Hvy Duty Mechanic	530.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Operator G4a Boom truck<15 ton	4160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Operator G6 Screedman	294.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Operator G7 Oiler	7139.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Operator G8a Skidsteer <Bobcat 743	85.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Pipefitter Apprentice	474.24	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Pipefitter Foreman	717.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Pipefitter Journeyman	4302.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Teamster G1 Hwy ED<6cy, Flatbed	1863.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Teamster G2 Hwy ED 6-8cy, Water<7	1982	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Teamster G3 Boom Truck	4160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Teamster G3 ED 8-24cy, Water>7mg;	1982	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 20	Teamster G4 Tractor, Lowbed/Trailer	710.4	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-20					
SF - Central - 21	Carpenter Foreman	3200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 21	Carpenter Journeyman	6400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 21	Laborer G2 General	3200	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-21					

SF - Central - 22	Carpenter Foreman	2016	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Electrical Lineman	3840	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Electrical Foreman	1056	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Electrician Journeyman	384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Iron Worker Rigger	384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Laborer G2 General	192	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Millwright	11904	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Operator G1a Cranes>100 t	384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Operator G3a Cranes 45 t and under	1352.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Operator G7 Oiler	384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Pipefitter Foreman	1432.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Pipefitter Journeyman	4298.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Teamster G1 Hwy ED<6cy, Flatbed	1432.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 22	Teamster G4 Tractor, Lowbed/Trailer	4298.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-22					
SF - Central - 23	Carpenter Apprentice	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Carpenter Foreman	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Carpenter Journeyman	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Electrical Foreman	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Electrician Journeyman	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Iron Worker Rigger	50	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Iron Worker Journeyman Rebar/Stru	241	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Laborer Foreman	39.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Laborer G1 Pipe Layer	2577	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Laborer G2 General	5318.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Laborer G3 Flagman	337.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	OPERATING ENGINEER FOREMAN	14800.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G2 Excavator 3.5 to 7.0 cy	1220.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G2 Finish Blade	25208.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G2a Cranes 45 to 100 t	120.48	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G3 BH-Loader>3/4cy	7538.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G3 Loader >4cy	1499.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G3a Cranes 45 t and under	120.48	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G4 BH-Loader <.76cy	50	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G4 Dozer & Push Cat	2052.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G4 Grade Check	208.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G4 Scraper	80	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G4a Boom truck<15 ton	110.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G5 Compactor w-blade	920.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Operator G8 Pump	33.77	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Teamster G1 Hwy ED<6cy, Flatbed	59.32	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Teamster G2 Hwy ED 6-8cy, Water<7	26438	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Teamster G3 Boom Truck	170.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 23	Teamster G3 ED 8-24cy, Water>7mg;	19086.2	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-23					
SF - Central - 24	Laborer G2 General	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 24	Laborer G3 Flagman	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 24	OPERATING ENGINEER FOREMAN	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 24	Operator G2 Finish Blade	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 24	Operator G4 Dozer & Push Cat	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 24	Operator G4 Loader <4.1cy	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 24	Teamster G2 Hwy ED 6-8cy, Water<7	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 24	Teamster G3 ED 8-24cy, Water>7mg;	1600	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-24					
SF - Central - 25	Electrical Lineman	1560	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Laborer Foreman	3900	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Laborer G1 Pipe layers	7800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Laborer G3 Flagman	41522.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Laborer G4 Clean-up	559.44	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	OPERATING ENGINEER FOREMAN	21582.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Operator G2 Excavator 3.5 to 7.0 cy	22124.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Operator G2 Finish Blade	5190.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Operator G4 Dozer & Push Cat	22404.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Operator G4 Grade Check	10380.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Operator G8 Generator	7800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Teamster G2 Hwy ED 6-8cy, Water<7	5190.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Teamster G3 Boom Truck	3900	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 25	Teamster G3 ED 8-24cy, Water>7mg;	83604.9	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-25					
SF - Central - 26	Laborer G2 General	64408.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	OPERATING ENGINEER FOREMAN	49343.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G2 Excavator 3.5 to 7.0 cy	10332	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G2 Finish Blade	11202.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G2 Plant Operator	41476.92	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G3 BH-Loader>3/4cy	20738.46	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G3a Cranes 45 t and under	20738.46	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G4 Dozer & Push Cat	48073.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G4 Grade Check	31070.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G4 Scraper	73091.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G5 Compactor w-blade	18272.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G6 Tractor	2066.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G7 Roller, Compactor	28604.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Operator G8 Pump	2066.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Teamster G1 Hwy ED<6cy, Flatbed	20738.46	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Teamster G2 Hwy ED 6-8cy, Water<7	20738.46	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 26	Teamster G3 ED 8-24cy, Water>7mg;	11202.8	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-26					
SF - Central - 27	Laborer G2 General	119.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 27	OPERATING ENGINEER FOREMAN	13583.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 27	Operator G5 Compactor w-blade	119.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 27	Operator G4 Dozer & Push Cat	32095.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 27	Operator G4 Scraper	19915.5	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 27	Operator G2 Excavator 3.5 to 7.0 cy	17148.76	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 27	Operator G2 Finish Blade	119.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 27	Teamster G3 ED 8-24cy, Water>7mg;	34297.53	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-27					
SF - Central - 28	Carpenter Journeyman	2075.47	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 28	Electrician Journeyman	4150.94	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 28	Laborer Foreman	21371.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 28	Laborer G2 General	26140	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 28	Laborer G4 Clean-up	16603.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 28	Operator G3 BH-Loader>3/4cy	8610.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 28	Operator G6 Tractor	6535	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 28	Teamster G1 Hwy ED<6cy, Flatbed	21371.9	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-28					
SF - Central - 29	Laborer Foreman	1895.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Laborer G2 General	15469	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Laborer G3 Fence Builder	7259.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	OPERATING ENGINEER FOREMAN	5638.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G8a Skidsteer <Bobcat 743	107.14	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G2 Excavator 3.5 to 7.0 cy	2921.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G2 Finish Blade	2339.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G3 BH-Loader>3/4cy	2688	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G3 Gradall	2867.76	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G3 Loader >4cy	5355.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G4 Dozer & Push Cat	895.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G4 Grade Check	1160.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G4 Scraper	555.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G4 Trim Machine	819.64	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G5 Compactor w-blade	2093.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G6 Tractor	334	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G7 Roller, Compactor	340.74	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Operator G8 Pump	603.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Teamster G1 Hwy ED<6cy, Flatbed	4321.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Teamster G2 Hwy ED 6-8cy, Water<7	2564.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Teamster G3 ED 8-24cy, Water>7mg;	9142.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 29	Teamster G4 ED 25-65 Cy	2458.9	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-29					
SF - Central - 30	Carpenter Foreman	1187.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Carpenter Journeyman	8309.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Cement Mason Foreman	12.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Cement Mason Journeyman	36.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Iron Worker Foreman	1026.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Iron Worker Journeyman Rebar/Stru	6160.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Laborer Foreman	310	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Laborer G1 Vibrator, Green Cutter	63.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Laborer G2 Concrete Laborer	1675.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Laborer G2 General	6227.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Laborer G2 High Pressure Nozzlemar	13.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Laborer G3 Dumpman	171.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	OPERATOR - MECHANIC	137.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	OPERATING ENGINEER FOREMAN	2115.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G1a Cranes>100 t	7725.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G2 Excavator 3.5 to 7.0 cy	597.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G2 Finish Blade	134.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G2 Plant Operator	2476	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G2a Cranes 45 to 100 t	792.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G3 BH-Loader>3/4cy	1310.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G3 Loader >4cy	447	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G3a Cranes 45 t and under	1169.23	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G4 Dozer & Push Cat	1419	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G4 Grade Check	1482.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G4 Hvy Duty Mechanic	6.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G4 Scraper	808.29	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G4 Trim Machine	3.93	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G5 Compactor w-blade	269.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G5 Drilling & Boring Mach	1000	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G7 Roller, Compactor	171.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G6 Tractor	171.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Operator G7 Oiler	1863	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Pile Driver Foreman	550	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Pile Driver Wharf and Dock	2200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Teamster G1 Hwy ED<6cy, Flatbed	1553.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Teamster G2 Hwy ED 6-8cy, Water<7	1255.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 30	Teamster G4 ED 25-65 Cy	11.8	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-30					
SF - Central - 31	Carpenter Apprentice	350	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Carpenter Foreman	7363.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Carpenter Journeyman	53266.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Cement Mason Foreman	1489.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Cement Mason Journeyman	5948.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Electrical Foreman	175	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Electrician Journeyman	600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Iron Worker Foreman	8058	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Iron Worker Journeyman Rebar/Stru	49182.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Laborer Foreman	1203.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Laborer G1 Vibrator, Green Cutter	661.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Laborer G2 Concrete Laborer	10972.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Laborer G2 General	32075.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Laborer G3 Dumpman	33.33	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	OPERATING ENGINEER FOREMAN	8576	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	OPERATOR - MECHANIC	3524.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G1 Excavator >7CY	205.39	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G1a Cranes>100 t	4408.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G2 Excavator 3.5 to 7.0 cy	610	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G2 Finish Blade	215.4	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 31	Operator G3 BH-Loader>3/4cy	7727.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G2 Plant Operator	11973.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G2a Cranes 45 to 100 t	4283.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G3 Loader >4cy	4368.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G3a Cranes 45 t and under	4596.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G5 Concrete Pump	1380.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G4 Dozer & Push Cat	3925.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G4 Grade Check	7760.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G4 Hvy Duty Mechanic	132.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G5 Drilling & Boring Mach	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G5 Compactor w-blade	35.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Operator G7 Oiler	8028.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Pile Driver Foreman	244	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Pile Driver Wharf and Dock	976	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Teamster G5 ED >65cy	1026.96	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Teamster G1 Hwy ED<6cy, Flatbed	8413.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Teamster G2 Hwy ED 6-8cy, Water<7	4262.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Teamster G3 Boom Truck	175	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Teamster G3 ED 8-24cy, Water>7mg;	17144.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Teamster G4 ED 25-65 Cy	610	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 31	Teamster G4 Tractor, Lowbed/Trailer	401.9	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-31					
SF - Central - 32	Carpenter Apprentice	60	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Carpenter Foreman	980	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Carpenter Journeyman	3180	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Electrical Lineman	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Electrical Foreman	900	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Electrician Journeyman	2500	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Iron Worker Foreman	98	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Iron Worker Journeyman Rebar/Stru	508.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Iron Worker Rigger	518	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Laborer G2 Concrete Laborer	2481.17	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Laborer G2 General	1830.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Operator G1a Cranes>100 t	237.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Operator G3 BH-Loader>3/4cy	222.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Operator G2a Cranes 45 to 100 t	1018	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Operator G4a Boom truck<15 ton	616.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Operator G3a Cranes 45 t and under	616.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Pipefitter Apprentice	888.89	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Pipefitter Foreman	222.22	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Pipefitter Journeyman	2133.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Teamster G1 Hwy ED<6cy, Flatbed	734	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 32	Teamster G4 Tractor, Lowbed/Trailer	222.2	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-32					
SF - Central - 33	Bullgang Foreman	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Bullgang Laborer	1600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Carpenter	1892	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Carpenter Foreman	287	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Compactor Operator	648	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Grade Setter / Checker	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Grader Operator	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Dozer Operator	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Flagger	648	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Iron Worker	5000	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Flat Truck Driver	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	General Foreman	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	General Laborer	1772	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Hyd Crane Operator	2201	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Iron Worker Foreman	500	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Loader Operator	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Laborer G2 General	17040	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Mechanic / Welder	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Operating Engineer	5680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Operator G2 Plant Operator	11360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Operator G3 BH Loader	5680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Operator G3a Crane	5680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Operator G4 Grade Check	5680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 33	Operator G4 Heavy Duty Mechanic	5680	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-33					
SF - Central - 34	Bottomlander	247	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Bullgang Foreman	16	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Bullgang Laborer	32	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Carpenter Foreman	318	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Carpenter	1272.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Concrete Superintendent	3360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Cost Engineer	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Crane Oiler	2118	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Dozer Operator	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Electrical Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	EMT	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Environmental Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Equipment Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Excavator Operator	405.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Field Engineer	5040	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Flat Truck Driver	16	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	General Foreman	1658	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	General Laborer	8479.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	General Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Geotechnical Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Grade Setter / Checker	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Grader Operator	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Hyd Crane Operator	1598.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Iron Worker	9158.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Iron Worker Foreman	1633.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Lead Miner	698.3	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 34	Loader Operator	1028.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Mechanic/Welder	1294	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Miner	6192.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Office Administrator	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Office Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Project Engineer	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Project Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	QC Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	QC Technician	3360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Runner	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Safety Engineer	13440	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Safety Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Schedule Engineer	3360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Shaft Crane Operator	2365	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Shift Engineers	13440	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Shifter	2313.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Survey Party Chief	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Survey Rod Man	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Toplander	1447	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Truck Driver	3971.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Tunnel Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 34	Tunnel Walkers	13440	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-34					
SF - Central - 35	Bottomlander	1330.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Bulgang Foreman	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Bulgang Laborer	960	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Concrete Pump Operator	295	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Crane Oiler	1924.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Electrician	1279.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Heavy Duty Mechanic Welder	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Hyd Crane Operator	760	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Iron Worker	3948.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Iron Worker Foreman	493.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Lead Miner	1423	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Master Mechanic	480	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Mechanic/Welder	1688	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Miner	9831.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Shaft Crane Operator	1976.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Shifter	1494	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Toplander	1816.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 35	Truck Driver	2179.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-35					
SF - Central - 36	Bottomlander	9170	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Bulgang Foreman	7693.9	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Bulgang Laborer	25595.5	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Conveyor Belt Man	4700	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Crane Oiler	9170	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Dozer Operator	4600	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Electrician	11350	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Fanline Carrier Operator	5000	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Flat Truck Driver	2590	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Hyd Crane Operator	5580	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Lead Miner	5750	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Loader Operator	4600	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Man Transport Truck Operator	5103.9	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Master Mechanic	2500	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Mechanic/Welder	16440	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Miner	43620	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Operating Engineer	4600	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Operator G2 Plant Operator	4600	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Segment Carrier Operator	32000	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Shaft Crane Operator	9170	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Shifter	5750	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	TBM Operator	10200	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Toplander	9170	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 36	Utility Truck Operator	5103.9	20	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-36					
SF - Central - 37	Bottomlander	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Bulgang Foreman	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Bulgang Laborer	600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Crane Oiler	815	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Electrician	1854	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Forklift Operator	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Heavy Duty Mechanic Welder	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Hyd Crane Operator	815	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Lead Miner	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Master Mechanic	300	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Mechanic/Welder	1854	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Miner	4504	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Shaft Crane Operator	1139	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Shifter	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Toplander	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 37	Utility Truck Operator	174	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-37					
SF - Central - 38	Bottomlander	247	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Bulgang Foreman	16	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Bulgang Laborer	32	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Carpenter Foreman	318	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Carpenter	1272.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Compactor Operator	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Concrete Superintendent	3360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Cost Engineer	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Crane Oiler	2118	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Dozer Operator	3090	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 38	Electrical Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	EMT	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Environmental Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Equipment Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Excavator Operator	405.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Field Engineer	5040	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Flat Truck Driver	16	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	General Foreman	1658	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	General Laborer	10137.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	General Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Geotechnical Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Grade Setter / Checker	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Grader Operator	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Hyd Crane Operator	1698.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Iron Worker	9158.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Iron Worker Foreman	1633.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Lead Miner	798.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Loader Operator	1028.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Mechanic/Welder	1294	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Miner	6992.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Office Administrator	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Office Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Operating Engineer	2133	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Project Engineer	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Project Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	QC Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	QC Technician	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Runner	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Safety Engineer	13440	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Safety Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Schedule Engineer	3360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Shaft Crane Operator	2365	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Shift Engineers	13440	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Shifter	2413.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Survey Party Chief	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Survey Rod Man	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Teamster G1 Hwy	2133	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Teamster G2 Hwy	2133	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Toplander	1447	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Truck Driver	3971.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Tunnel Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 38	Tunnel Walkers	13440	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-38					
SF - Central - 39	Bottomlander	1330.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Bullgang Foreman	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Bullgang Laborer	960	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Concrete Pump Operator	295	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Crane Oiler	1924.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Electrician	1279.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Heavy Duty Mechanic Welder	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Hyd Crane Operator	660	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Iron Worker	3948.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Iron Worker Foreman	493.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Lead Miner	1323	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Master Mechanic	480	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Mechanic/Welder	1688	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Miner	9031.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Shaft Crane Operator	1976.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Shifter	1394	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Toplander	1816.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 39	Truck Driver	2185.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-39					
SF - Central - 40	Bottomlander	9181	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Bullgang Foreman	7609	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Bullgang Laborer	25429.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Conveyor Belt Man	4710	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Crane Oiler	9181	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Dozer Operator	4610	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Electrician	11360	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Fanline Carrier Operator	5000	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Flat Truck Driver	2504	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Hyd Crane Operator	5408	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Lead Miner	5760	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Loader Operator	4610	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Man Transport Truck Operator	5105.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Master Mechanic	2500	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Mechanic/Welder	18864	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Miner	43728	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Operating Engineer	4610	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Operator G2 Plant Operator	4610	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Segment Carrier Operator	32030	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Shaft Crane Operator	9181	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Shifter	6475	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	TBM Operator	10220	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Toplander	9181	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 40	Utility Truck Operator	5105.3	20	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-40					
SF - Central - 41	Bottomlander	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Bullgang Foreman	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Bullgang Laborer	600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Crane Oiler	815	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Electrician	1854	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Forklift Operator	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Heavy Duty Mechanic Welder	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Hyd Crane Operator	815	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 41	Lead Miner	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Master Mechanic	300	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Mechanic/Welder	1854	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Miner	4504	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Shaft Crane Operator	1139	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Shifter	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Toplander	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 41	Utility Truck Operator	174	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Central-41

SF - Central - 42	Bullgang Foreman	372	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Bullgang Laborer	744	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Carpenter	234.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Carpenter Foreman	58.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Compactor Operator	3867.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Concrete Superintendent	6696	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Cost Engineer	13392	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Dozer Operator	3679.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Electrical Superintendent	13392	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	EMT	13392	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Environmental Manager	13392	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Equipment Superintendent	13392	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Field Engineer	13392	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Flagger	375.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Flat Truck Driver	372	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	General Foreman	187.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	General Laborer	492.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	General Superintendent	13392	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Geotechnical Manager	13392	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Grade Setter / Checker	3679.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Grader Operator	3679.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Hyd Crane Operator	802.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Loader Operator	187.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Mechanic/Welder	372	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Office Administrator	13392	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Office Manager	13392	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Operating Engineer	3298.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Project Engineer	13392	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Project Manager	13392	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	QC Manager	13392	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	QC Technician	6696	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Runner	13392	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Safety Engineer	26784	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Safety Manager	13392	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Schedule Engineer	6696	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Shift Engineers	26784	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Survey Party Chief	13392	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Survey Rod Man	13392	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Teamster G1 Hwy	3298.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Teamster G2 Hwy	3298.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Truck Driver	3492	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Tunnel Superintendent	13392	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Tunnel Walkers	28800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Operator G2 Plant Operator	6597.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Operator G3 BH Loader	3298.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Operator G3a Crane	3298.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Operator G4 Grade Check	3298.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 42	Operator G4 Heavy Duty Mechanic	3298.7	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Central-42

SF - Central - 43	Bottomlander	236.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Bullgang Foreman	15.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Bullgang Laborer	30.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Carpenter Foreman	455.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Carpenter	2289.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Compactor Operator	226.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Crane Oiler	1777.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Dozer Operator	113.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Excavator Operator	388	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Flagger	226.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Flat Truck Driver	15.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	General Foreman	1625.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	General Laborer	8739.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Grade Setter / Checker	113.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Grader Operator	113.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Hyd Crane Operator	2051.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Iron Worker	12673.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Iron Worker Foreman	1879.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Lead Miner	689.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Loader Operator	1097.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Mechanic/Welder	1164.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Miner	6099.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Shaft Crane Operator	2013.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Shifter	2087.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Toplander	1282.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 43	Truck Driver	1227.8	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Central-43

SF - Central - 44	Bottomlander	704.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Concrete Pump Operator	240.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Crane Oiler	1036	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Electrician	114	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Iron Worker	3057.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Iron Worker Foreman	382.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Lead Miner	703.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Mechanic Welder	463.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Miner	4142.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Shaft Crane Operator	1085.7	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 44	Shifter	771.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Toplander	1085.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 44	Truck Driver	310.1	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-44					
SF - Central - 45	Compactor Operator	2820.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	Dozer Operator	4192	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	General Foreman	18.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	Grade Setter / Checker	4155.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	Grader 16H - 16' Blade	36.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	Grader Operator	7012.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	Loader Operator	1334.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	Operator G4 Grade Check	18.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	Scraper Operator	73.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 45	Truck Driver	4155.3	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-45					
SF - Central - 46	Bottomlander	236.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Bullgang Foreman	91.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Bullgang Laborer	183.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Carpenter Foreman	358.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Carpenter	1657.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Compactor Operator	3513.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Crane Oiler	1777.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Dozer Operator	3445	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Excavator Operator	388	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Flat Truck Driver	91.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	General Foreman	1512.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	General Laborer	7853.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Grade Setter / Checker	3445	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Grader Operator	3445	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Hyd Crane Operator	1704.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Iron Worker	8023.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Iron Worker Foreman	1414.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Lead Miner	689.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Loader Operator	983.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Mechanic/Welder	1240.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Miner	6376.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Shaft Crane Operator	2013.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Shifter	2087.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Toplander	1282.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 46	Truck Driver	4427.4	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-46					
SF - Central - 47	Bottomlander	390.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Bullgang Foreman	149.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Bullgang Laborer	896	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Concrete Pump Operator	240.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Crane Oiler	871	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Electrician	263.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Heavy Duty Mechanic Welder	149.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Hyd Crane Operator	149.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Iron Worker	543.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Iron Worker Foreman	382.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Lead Miner	703.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Master Mechanic	448	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Mechanic/Welder	612.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Miner	4142.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Shaft Crane Operator	920.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Shifter	625	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 47	Toplander	771.4	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-47					
SF - Central - 48	Bottomlander	44964.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Bullgang Foreman	31879.9	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Bullgang Laborer	106295.5	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Conveyor Belt Man	22230.1	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Crane Oiler	44964.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Dozer Operator	13066.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Electrician	45591.5	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Fanline Carrier Operator	20888	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Flat Truck Driver	10612	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Hyd Crane Operator	22064	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Master Mechanic	10444	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Lead Miner	23676.8	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Loader Operator	13066.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Mechanic/Welder	66647.5	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Miner	175082.1	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Operator G2 Plant Operator	13066.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Operating Engineer	13066.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Segment Carrier Operator	134325.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Shaft Crane Operator	44964.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Shifter	23676.8	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	TBM Operator	38132.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Toplander	44964.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Truck Driver	5226.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 48	Utility Truck Operator	21267.9	20	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-48					
SF - Central - 49	Bottomlander	1554	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Bullgang Foreman	169.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Bullgang Laborer	713	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Crane Oiler	760.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Electrician	2314.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Flat Truck Driver	76.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Forklift Operator	886.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Heavy Duty Mechanic Welder	93.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Hyd Crane Operator	913.7	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Central - 49	Lead Miner	1554	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Master Mechanic	280	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Mechanic/Welder	2391.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Miner	7709.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Shaft Crane Operator	1647.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Shifter	1554	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Toplander	1554	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 49	Utility Truck Operator	746.7	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-49					
SF - Central - 50	Carpenter Apprentice	384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 50	Carpenter Foreman	384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 50	Electrical Foreman	192	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 50	Electrician Journeyman	384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 50	Iron Worker Journeyman Rebar/Stru	768	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 50	Laborer G2 General	768	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 50	Millwright	384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 50	Operator G2a Cranes 45 to 100 t	384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 50	Teamster G3 Boom Truck	192	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-50					
SF - Central - 51	Carpenter Apprentice	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 51	Carpenter Foreman	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 51	Electrical Foreman	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 51	Electrician Journeyman	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 51	Iron Worker Journeyman Rebar/Stru	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 51	Laborer G2 General	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 51	Millwright	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 51	Operator G2a Cranes 45 to 100 t	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 51	Teamster G3 Boom Truck	200	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-51					
SF - Central - 52	Laborer G4 Clean-up	34209.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 52	OPERATING ENGINEER FOREMAN	17104.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 52	Operator G2 Micro Tunnel	2883	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 52	Operator G2 Plant Operator	11839	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 52	Operator G3 Loader >4cy	34209.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 52	Operator G4 Loader <4.1cy	5766	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 52	Operator G5 Concrete Pump	11839	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 52	Operator G7 Oiler	5265.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 52	Operator G8a Skidsteer <Bobcat 743	11839	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-52					
SF - Central - 53	Laborer G2 General	404	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 53	OPERATING ENGINEER FOREMAN	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 53	Operator G3 BH-Loader>3/4cy	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 53	Operator G4 Grade Check	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 53	Operator G5 Asphalt Roller	202	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 53	Operator G5 Paver	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 53	Teamster G2 Hwy ED 6-8cy, Water<7	50.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-53					
SF - Central - 54	Laborer G2 General	404	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 54	OPERATING ENGINEER FOREMAN	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 54	Operator G3 BH-Loader>3/4cy	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 54	Operator G4 Grade Check	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 54	Operator G5 Asphalt Roller	202	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 54	Operator G5 Paver	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 54	Teamster G2 Hwy ED 6-8cy, Water<7	50.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-54					
SF - Central - 55	Laborer G2 Concrete Laborer	600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Laborer G2 General	280	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Laborer G3 Flagman	880	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	OPERATING ENGINEER FOREMAN	720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Operator G2 Excavator 3.5 to 7.0 cy	1200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Operator G2 Finish Blade	210	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Operator G3 Loader >4cy	40	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Operator G4 Dozer & Push Cat	3180	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Operator G4 Scraper	2000	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Operator G6 Tractor	640	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Teamster G2 Hwy ED 6-8cy, Water<7	4600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Central - 55	Teamster G4 ED 25-65 Cy	200	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Central-55					

Marine Inventory for Southern Complex on Byron Tract - Central
Option 7

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Southern Complex on Byron Tract - Central
Option 7

Code	# day	Locomotive Type	From Depot Site	Delivery Depot	Rail Cars	Rail Cars/Day	Main Railroad	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
SF - Central - 5	5	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 6	159	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 7	261	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 9	212	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 10	81	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 11	283	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 12	691	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 13	834	Concrete and Bentonite	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 14	623	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 15B	352	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 16	154	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 17	33	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 18	29	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 19	336	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 20	715	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 22	233	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 23	201	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 24	181	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 26	1355	Cement, Aggregate, Sand, Flyash, B	Stockton	Southern Complex	2398	1.8	UPRR						
SF - Central - 27	1749	Soil Material	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 29	274	Riprap and Soil Material	Stockton	Southern Complex	27495	100.5	UPRR						
SF - Central - 30	185	Cement, Aggregate, Sand, Flyash, R	Stockton	Southern Complex	393	2.1	UPRR						
SF - Central - 31	649	Cement, Aggregate, Sand, Flyash, B	Stockton	Southern Complex	1538	2.4	UPRR						
SF - Central - 34	771	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 35	88	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 36	344	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 37	35	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 38	961	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 39	277	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 40	417	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 41	35	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 43	239	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 46	443	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Central - 48	1055	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						

Helicopter Inventory for Southern Complex on Byron Tract - Central Option 7

For 36 new transmission towers along 8.3 miles of new 230 kV line

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
SF - Central 5			2		

Earthmoving/Paving Assumptions for Southern Complex on Byron Tract - Central
Option 7

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
SF - Central - 1		207									
SF - Central - 2		323									
SF - Central - 3		253		90891	359	238663	944				
SF - Central - 4		227		48121	212	100678	443			1403505	6179
SF - Central - 5	30.72	5	6.1			14400	2880				
SF - Central - 7		261		1000	4	5000	19			243302	931
SF - Central - 9		212		960	5	4800	23				
SF - Central - 10		81				4272	53				
SF - Central - 11		283		68391.4	242	28061.2	99				
SF - Central - 12		691		239905	347						
SF - Central - 13		834		69731.5	84	4601.3	6				
SF - Central - 14		623		112320	180		0				
SF - Central - 15B		352		191136	543	22486.6	64				
SF - Central - 16		154				4336	28				
SF - Central - 17		33				652.8	20				
SF - Central - 18		29				1451	50				
SF - Central - 19		336				9585	29			215153	641
SF - Central - 20		715					0				
SF - Central - 22		233					0				
SF - Central - 23		201		150974	752	185339	923			126720	631
SF - Central - 24	921	181	5.1				0				
SF - Central - 25		445		2799678	6291	70220	158				
SF - Central - 26		1355				9774800	7214				
SF - Central - 27		1749									
SF - Central - 28		2190									
SF - Central - 29	3	274	0.01		0	344210	1258				
SF - Central - 30		185		61000	330	102835	556				
SF - Central - 31		649		154044	238	2000	3				
SF - Central - 32		136									
SF - Central - 33		256									
SF - Central - 34		771		109027	141	135982	176				
SF - Central - 35		88									
SF - Central - 36		344									
SF - Central - 37		35									
SF - Central - 38		961		109027	113	135982	142				
SF - Central - 39		277									
SF - Central - 40		417									
SF - Central - 42		1660				153677	93				
SF - Central - 43		239		91333.5	383						
SF - Central - 44		91									
SF - Central - 45		165		142727.9	865						
SF - Central - 46		443		91333.5	206	151582	342				
SF - Central - 48		1055		5664.4	5						
SF - Central - 49		69									
SF - Central - 50		40									
SF - Central - 51		39									
SF - Central - 53		11								431730	40295
SF - Central - 54		10								431730	43173
SF - Central - 55	376	239	1.6			983488	4110				

**Demolition Assumptions for Southern Complex on Byron Tract - Central
Option 7**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Southern Complex West of Byron Highway - South Delta Conv - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Mobilization - Gravel Bedding, Formwork, Rebar, Concrete for Slabs	SDC - Central & Eastern - 1	6/19/2030	8/22/2030	46	5	10
Roads, Utilities, Construction Office, Shops, Other Structures	SDC - Central & Eastern - 2	6/25/2030	10/11/2030	80	5	10
Utility, Facility, and Plant Operations	SDC - Central & Eastern - 3	10/14/2030	3/17/2037	1675	5	10
Tunnel Outlet Excavation & Cofferdam	SDC - Central & Eastern - 4	5/8/2030	5/8/2031	261	5	10
South Delta Tunnel Outlet Structure Excavation, Sheet Piles, Forms	SDC - Central & Eastern - 5	5/8/2030	5/6/2031	259	5	10
Reception Shaft - East: Slurry Wall and Guide Wall	SDC - Central & Eastern - 6	5/7/2031	9/12/2031	93	5	10
Reception Shaft - East: Tremie Seal	SDC - Central & Eastern - 7	9/8/2031	9/16/2031	9	7	24
Reception Shaft - East: Dewater Shaft	SDC - Central & Eastern - 8	9/22/2031	9/26/2031	5	5	10
Reception Shaft - East: Tunnel Cradle	SDC - Central & Eastern - 9	9/29/2031	10/6/2031	5	5	10
Reception Shaft - East: Slurry Wall Breakout	SDC - Central & Eastern - 10	10/7/2031	10/31/2031	19	5	10
Reception Shaft - East: Assemble Shaft with Concrete	SDC - Central & Eastern - 11	10/27/2031	1/6/2032	52	5	10
Reception Shaft - West: Slurry Wall and Guide Wall	SDC - Central & Eastern - 12	7/10/2031	12/9/2031	111	5	10
Reception Shaft - West: Tremie Seal	SDC - Central & Eastern - 13	2/6/2032	2/16/2032	10	7	24
Reception Shaft - West: Dewater Shaft	SDC - Central & Eastern - 14	2/20/2032	2/26/2032	5	5	10
Reception Shaft - West: Tunnel Cradle	SDC - Central & Eastern - 15	2/27/2032	3/5/2032	6	5	10
Reception Shaft - West: Slurry Wall Breakout	SDC - Central & Eastern - 16	3/8/2032	4/1/2032	19	5	10
Reception Shaft - West: Assemble Shaft with Concrete	SDC - Central & Eastern - 17	4/2/2032	6/14/2032	54	5	10
Calif Aqueduct Div Channel Excavation and Earthwork	SDC - Central & Eastern - 18	5/8/2030	10/18/2032	640	5	10
Calif Aqueduct Control Structure: Cofferdam	SDC - Central & Eastern - 19	2/3/2031	1/22/2032	350	5	10
Calif Aqueduct Control Structure: Construct Concrete Slabs and Fram	SDC - Central & Eastern - 20	1/8/2032	12/24/2032	250	5	10
Calif Aqueduct Control Structure: Remove Cofferdam	SDC - Central & Eastern - 21	1/25/2033	4/15/2033	59	5	10
Calif Aqueduct Control Structure: Construct Walls	SDC - Central & Eastern - 22	5/25/2032	9/27/2032	90	5	10
Calif Aqueduct Control Structure: Weir and Bridge	SDC - Central & Eastern - 23	9/28/2032	12/3/2032	49	5	10
Calif Aqueduct Control Structure: Gates and Stoplogs	SDC - Central & Eastern - 24	12/3/2032	4/21/2033	100	5	10
South Delta Tunnel Outlet: Excavation	SDC - Central & Eastern - 25	4/24/2034	4/13/2035	253	5	10
South Delta Tunnel Outlet Structure: Construct Slabs and Walls	SDC - Central & Eastern - 26	4/24/2034	7/30/2036	592	5	10
South Delta Tunnel Outlet Building: Construct Slabs and Walls	SDC - Central & Eastern - 27	6/27/2035	1/6/2037	660	5	10
South Delta Tunnel Outlet Building: Gates and Stoplogs	SDC - Central & Eastern - 28	4/2/2036	1/16/2037	208	5	10
South Delta Tunnel Outlet Building: Remove Cofferdam and Construc	SDC - Central & Eastern - 29	1/6/2037	3/17/2037	51	5	10
Southern Complex West of Byron Highway: Site Restoration	SDC - Central & Eastern - 30	1/27/2037	5/4/2037	70	5	10

Total Site Acres

150

APPENDIX F – ATTACHMENT 5

Stockpile Information, Concrete Batch Production, and Power Demands for Central Corridor Options

FINAL DRAFT

Input Template for Material Moved Via Conveyors

Conveyance of RTM at Launch Shaft and Southern Complex sions per day = pounds per CY per transfer * # transfers * CY handled per day

Options	Code	Feature Category	Feature	Start Date	End Date	Working Days	RTM Moved Via Conveyor (cy/day)	Number of transfer points where RTM "drops" between elevations (and therefore, creates dust)	Notes
Option 1	TCC-Central & Eastern - 24: Tunneling Reach 1	Shafts	Twin Cities	11/6/2030	12/28/2034	1,297	2,440	4	RTM volumes based on average excavation rates Wet excavated volumes used
Option 1	TCC-Central & Eastern - 26: Tunneling Reach 2	Shafts	Twin Cities	6/6/2030	12/4/2036	2,064	2,440	4	
Option 1	Bouldin I-Central - 18: Tunneling Reach 3	Shafts	Bouldin Island	4/17/2031	12/25/2035	1469	2,440	3	
Option 1	SF - Central - 32: Tunneling Reach 4	Shafts	Launch/Working Shaft on Byron Tract	8/15/2031	5/29/2036	1498	2,440	5	
Option 1	SF - Central - 33: Tunneling Reaches SE & SW	Shafts	Launch Shafts at Outlet	8/20/2031	4/13/2034	829	2,606	4	
Option 5	TCC-Central & Eastern - 24: Tunneling Reach 1	Shafts	Twin Cities	7/9/2031	5/5/2034	736	1,608	4	
Option 5	TCC-Central & Eastern - 26: Tunneling Reach 2	Shafts	Twin Cities	6/6/2030	12/4/2036	2,064	1,608	4	
Option 5	Bouldin I-Central - 18: Tunneling Reach 3	Shafts	Bouldin Island	4/17/2031	5/2/2035	1266	1,608	3	
Option 5	SF - Central - 32: Tunneling Reach 4	Shafts	Launch/Working Shaft on Byron Tract	4/17/2029	4/16/2035	1498	1,608	5	
Option 5	SF - Central - 33: Tunneling Reaches SE & SW	Shafts	Launch Shafts at Outlet	8/20/2031	4/13/2034	829	2,606	4	
Option 7	TCC-Central & Eastern - 24: Tunneling Reach 1	Shafts	Twin Cities	11/6/2030	9/26/2034	1,014	2,091	4	
Option 7	TCC-Central & Eastern - 26: Tunneling Reach 2	Shafts	Twin Cities	1/14/2030	6/30/2036	1,685	2,091	4	
Option 7	Bouldin I-Central - 18: Tunneling Reach 3	Shafts	Bouldin Island	6/26/2031	9/18/2035	1103	2,091	3	
Option 7	SF - Central - 32: Tunneling Reach 4	Shafts	Launch/Working Shaft on Byron Tract	12/5/2031	11/6/2035	1030	2,091	5	
Option 7	SF - Central - 33: Tunneling Reaches SE & SW	Shafts	Launch Shafts at Outlet	8/20/2031	3/2/2034	767	2,606	4	
Option 9	TCC-Central & Eastern - 24: Tunneling Reach 1	Shafts	Twin Cities	11/6/2030	8/20/2036	1,511	2,798	4	
Option 9	TCC-Central & Eastern - 26: Tunneling Reach 2	Shafts	Twin Cities	1/14/2030	11/3/2037	2,035	2,798	4	
Option 9	Bouldin I-Central - 18: Tunneling Reach 3	Shafts	Bouldin Island	6/26/2031	7/21/2036	1322	2,798	3	
Option 9	SF - Central - 32: Tunneling Reach 4	Shafts	Launch/Working Shaft on Byron Tract	12/5/2031	6/27/2036	1190	2,798	5	
Option 9	SF - Central - 33: Tunneling Reaches SE & SW	Shafts	Launch Shafts at Outlet	8/20/2031	4/13/2034	802	2,798	4	
Option 9	SDC- Tunneling Reach 6 to Jones PP	Shafts	Launch Shaft at South Delta Outlet	10/5/2033	8/30/2034	236	1,084	4	No. of drops estimated based on other sites

Question: If known, what is the average moisture content of the RTM put in trucks/rail cars for transport? If unknown, I will assume 12%.
Answer: For RTM to be transported from Twin Cities to the Southern Forebay, the intention is to dry it down to an average moisture content of 22%.

$$\text{Emissions per day} = \text{pounds per CY loaded} * \text{CY loaded per day}$$

Option	Code	Feature Category	Feature	Start Date	End Date	Working Days	RTM Loaded in Truck/Rail Car (cy/day)	Total Export Vol.	Notes
Option 1	TCC-Central & Eastern - 24: T	Shafts	Twin Cities	11/6/2030	12/28/2034	213	2,318	989,453	Working days are back calculated based on total exported volume and rate of exportation
Option 1	TCC-Central & Eastern - 26: T	Shafts	Twin Cities	6/6/2030	12/4/2036	213	2,318		Rate of export equal to average excavation rate
Option 1	Bouldin I-Central - 18: Tunnel	Shafts	Bouldin Island	4/17/2031	12/25/2035				Total working days split evenly between Reach 1 and 2
Option 1	SF - Central - 32: Tunneling R	Shafts	Launch/Working Shaft on Byron Tract	8/15/2031	5/29/2036				Dry excavated volumes used
Option 1	SF - Central - 33: Tunneling R	Shafts	unch Shafts at Outl	8/20/2031	4/13/2034				
Option 5	TCC-Central & Eastern - 24: T	Shafts	Twin Cities	7/9/2031	5/5/2034	545	1,528	1,664,924	
Option 5	TCC-Central & Eastern - 26: T	Shafts	Twin Cities	6/6/2030	12/4/2036	545	1,528		
Option 5	Bouldin I-Central - 18: Tunnel	Shafts	Bouldin Island	4/17/2031	5/2/2035				
Option 5	SF - Central - 32: Tunneling R	Shafts	Launch/Working Shaft on Byron Tract	4/17/2029	4/16/2035				
Option 5	SF - Central - 33: Tunneling R	Shafts	unch Shafts at Outl	8/20/2031	4/13/2034				
Option 7	TCC-Central & Eastern - 24: T	Shafts	Twin Cities	11/6/2030	9/26/2034	341	1,986	1,353,294	
Option 7	TCC-Central & Eastern - 26: T	Shafts	Twin Cities	1/14/2030	6/30/2036	341	1,986		
Option 7	Bouldin I-Central - 18: Tunnel	Shafts	Bouldin Island	6/26/2031	9/18/2035				
Option 7	SF - Central - 32: Tunneling R	Shafts	Launch/Working Shaft on Byron Tract	12/5/2031	11/6/2035				
Option 7	SF - Central - 33: Tunneling R	Shafts	unch Shafts at Outl	8/20/2031	3/2/2034				
Option 9	TCC-Central & Eastern - 24: T	Shafts	Twin Cities	11/6/2030	8/20/2036	16	2,658	84,701	
Option 9	TCC-Central & Eastern - 26: T	Shafts	Twin Cities	1/14/2030	11/3/2037	16	2,658		
Option 9	Bouldin I-Central - 18: Tunnel	Shafts	Bouldin Island	6/26/2031	7/21/2036				
Option 9	SF - Central - 32: Tunneling R	Shafts	Launch/Working Shaft on Byron Tract	12/5/2031	6/27/2036				
Option 9	SF - Central - 33: Tunneling R	Shafts	unch Shafts at Outl	8/20/2031	4/13/2034				
Option 9	SDC - Tunneling Reach 6 to J		Launch Shaft at South Delta Outlet	10/5/2033	8/30/2034	135	1,084	145,895	Assumes all RTM is off-hauled wet at the average rate of excavation (TBC)

Dust Emissions from RTM Stockpiles

							Dynamic Annual Assumptions																			
Stockpile Location	Feature Name	Option	Alternative	Air Basin	MAX Pile Size (acres)	IAX Pile Height (feet)	Max Pile Acres by Year										Max Pile Height (ft) by Year									
							2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
Twin Cities Complex - North	Twin Cities Stockpile Alt 1	1B	1	SVAB	66	13	0	12	24	40	43	25	7	0	0	0	0.1	20	20	20	20	20	20	0.0	0.0	0.0
Twin Cities Complex - South	Twin Cities Stockpile Alt 1	1B	1	SVAB	130	16	11	15	20	36	53	70	85	0	0	0	20	20	20	20	20	20	0.0	0.0	0.0	
Bouldin Island	Bouldin Stockpile Alt 1	1B	1	SJVAB	196	8	0	196	196	196	196	196	0	0	0	0	0.0	1.4	3.2	5.0	6.8	8.2	0.0	0.0	0.0	
Southern Complex	S. Complex Stockpile Alt 1	1B	1	SFBAAB	289	10	0	7	29	50	6	8	8	0	0	0	0.6	10	10	10	10	10	10	0.0	0.0	0.0
Twin Cities Complex - North	Twin Cities Stockpile Alt 2b	5B	2b	SVAB	17	15	0	3	6	15	1	0	0	0	0	0	0.0	20	20	20	20	20	0	0	0.0	0.0
Twin Cities Complex - South	Twin Cities Stockpile Alt 2b	5B	2b	SVAB	42	15	4	1	2	12	11	3	0	0	0	0	20	20	20	20	20	0	0.0	0.0	0.0	
Bouldin Island	Bouldin Stockpile Alt 2b	5B	2b	SJVAB	129	7	0	129	129	129	129	129	0	0	0	0	0.0	1.3	3.0	4.7	6.4	6.5	0.0	0.0	0.0	0.0
Southern Complex	S. Complex Stockpile Alt 2b	5B	2b	SFBAAB	289	10	0	20	35	27	5	0	0	0	0	0	0	10	10	10	10	0	0	0.0	0.0	0.0
Twin Cities Complex - North	Twin Cities Stockpile Alt 2c	7B	2c	SVAB	39	15	0	8	18	30	20	2	0	0	0	0	0.1	20	20	20	20	20	0	0.0	0.0	0.0
Twin Cities Complex - South	Twin Cities Stockpile Alt 2c	7B	2c	SVAB	70	15	7	7	8	22	35	43	31	0	0	0	20	20	20	20	20	20	0	0.0	0.0	0.0
Bouldin Island	Bouldin Stockpile Alt 2c	7B	2c	SJVAB	168	7	0	168	168	168	168	168	0	0	0	0	0.0	1.3	2.9	4.6	6.3	7.1	0.0	0.0	0.0	0.0
Southern Complex	S. Complex Stockpile Alt 2c	7B	2c	SFBAAB	289	10	0	6	25	44	6	7	14	0	0	0	0	10	10	10	10	10	0	0.0	0.0	0.0
Twin Cities Complex - North	Twin Cities Stockpile Alt 2a	9B	2a	SVAB	94	18	0	17	35	53	71	89	98	0	0	0	0.0	20	20	20	20	20	20	0	0	0.0
Twin Cities Complex - South	Twin Cities Stockpile Alt 2a	9B	2a	SVAB	275	18	15	21	27	46	65	84	103	118	0	0	20	20	20	20	20	20	20	20	0.0	0.0
Bouldin Island	Bouldin Stockpile Alt 2a	9B	2a	SJVAB	225	9	0	225	225	225	225	225	225	0	0	0	0.0	1.3	3.1	4.9	6.7	8.5	9.1	0.0	0.0	0.0
Southern Complex	S. Complex Stockpile Alt 2a	9B	2a	SFBAAB	225	9	0	12	45	79	38	20	17	0	0	0	0	10	10	10	10	10	10	0.0	0.0	0.0

2028	Facility & Location	Operational	P/W Size (Acres)	P/W Height (feet)	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
1/1/2028	1/1/2028				1/1/2025	1/1/2026	1/1/2027	1/1/2028	1/1/2029	1/1/2030	1/1/2031	1/1/2032	1/1/2033	1/1/2034	1/1/2035	1/1/2036	1/1/2037
	Lambert Road	Intake 3	0.2	10						168	261	262	260	260		153	
	Lambert Road	Intake 5	0.2	10					133	261	261	262	260	260			
	Lambert Road	Tunnels and Shafts Reach 1	0.2	10						78	153						
260	Lambert Road	Tunnels and Shafts Reach 2	0.2	10			50	260	261	73							
	Bacon	Tunnels and Shafts Reach 3	0.2	10													
260	Southern Complex	BT Pumping Plant	0.2	10			176	260	261	261	153	262	71	260	240	252	
	Southern Complex	Tunnels and Shafts Reach 4	0.2	10						96	261						
	Southern Complex	Tunnels and Shafts Reach SE	0.2	10						96	261	36					
	Southern Complex	Tunnels and Shafts Reach SW	0.2	10						230	153						
	Southern Complex	South Delta Connections	0.2	10					114	261	262	260		260	261	251	
	Southern Complex	Southern Forebay	0.2	10										90	261	20	
	Lambert Road	Intake 2	0.2	10							217	262	260	260	261	262	36
	Lambert Road	Intake 3	0.2	10							168	261	262	260	260	244	
	Lambert Road	Intake 5	0.2	10					133	261	261	262	260	260	236		
	Lambert Road	Tunnels and Shafts Reach 1	0.2	10						78	153						
260	Lambert Road	Tunnels and Shafts Reach 2	0.2	10			50	260	261	73							
	Bacon	Tunnels and Shafts Reach 3	0.2	10													
260	Southern Complex	BT Pumping Plant	0.2	10			176	260	261	261	153	262	76	260	260	261	127
	Southern Complex	Tunnels and Shafts Reach 4	0.2	10						96	261	277					
	Southern Complex	Tunnels and Shafts Reach SE	0.2	10						93	230						
	Southern Complex	Tunnels and Shafts Reach SW	0.2	10						146	261	118					
	Southern Complex	Tunnels and Shafts Reach E Jones Tunnel	0.2	10						116	208						
	Southern Complex	South Delta Connections	0.2	10					114	261	262	260		260	261	262	17
	Southern Complex	Southern Forebay	0.2	10										90	261	20	
	Lambert Road	Intake 5	0.2	10					133	261	261	262	260	260	110		
	Lambert Road	Tunnels and Shafts Reach 1	0.2	10							168	261	262	260	260		
260	Lambert Road	Tunnels and Shafts Reach 2	0.2	10			50	260	261	73	43						
	Bacon	Tunnels and Shafts Reach 3	0.2	10													
260	Southern Complex	BT Pumping Plant	0.2	10			176	260	261	261	153	262	71	260		77	
	Southern Complex	Tunnels and Shafts Reach 4	0.2	10						96	261	262	260				
	Southern Complex	Tunnels and Shafts Reach SE	0.2	10						96	261	36					
	Southern Complex	Tunnels and Shafts Reach SW	0.2	10						230	153						
	Southern Complex	South Delta Connections	0.2	10					146	261	262	260		260	261	251	
	Southern Complex	Southern Forebay	0.2	10						114	261	262	260		90	261	20
	Lambert Road	Intake 3	0.2	10						168	261	262	260	260		185	
	Lambert Road	Intake 5	0.2	10					133	261	261	262	260	260	97		
260	Lambert Road	Tunnels and Shafts Reach 1	0.2	10			50	260	261	73	78	153					
	Lambert Road	Tunnels and Shafts Reach 2	0.2	10													
260	Bacon	Tunnels and Shafts Reach 3	0.2	10													
	Bacon	Tunnels and Shafts Reach 4	0.2	10													
	Southern Complex	BT Pumping Plant	0.2	10			177	260	261	261	153	262	76	260	240	186	
	Southern Complex	Tunnels and Shafts Reach 4	0.2	10						96	261	262	260				
	Southern Complex	Tunnels and Shafts Reach SE	0.2	10						96	261	36					
	Southern Complex	Tunnels and Shafts Reach SW	0.2	10						230	153						
	Southern Complex	South Delta Connections	0.2	10						146	261	118					
	Southern Complex	Southern Forebay	0.2	10					114	261	262	260		260	261	251	
														90	261	20	

Notes
No silt in batch plant stockpiles
Stockpile will consist of both coarse and fine aggregates
Stockpiles will be used every working day, with material being processed for ready mix or grout and new material being brought in
Days per year do not account for holidays

Offsite Batching Assumptions

Option	Facility Name (if known)	Facility Location (if known)	Type of Concrete (precast or structure)	Total Batch for Delta Conveyance (CY)	Year When Supply would Begin	Year When Supply would End	Tunnel length miles	ID ft	Vol cy/ft
1	Early Works - Logistics - Road	Sacramento	Concrete	370	2026	2026			
1	Reach 1	Sacramento	Pre Cast Segment 36' ID x 6' Wide	283026	2030	2034	8.19	36	6.54
1	Reach 2	Sacramento	Pre Cast Segment 36' ID x 6' Wide	501430	2030	2036	14.51	36	6.54
1	Reach 3	Lodi	Concrete	47412	2029	2031			
1	Reach 3	Stockton	Pre Cast Segment 36' ID x 6' Wide	347303	2031	2035	10.05	36	6.54
1	Reach 4	Stockton	Pre Cast Segment 36' ID x 6' Wide	232227	2031	2036	6.72	36	6.54
1	Reach 5E	Stockton	Pre-Cast 38' ID Segment 6'	67828	2031	2032	1.67	38	7.69
1	Reach 5W	Stockton	Pre-Cast 38' ID Segment 6'	67828	2032	2034	1.67	38	7.69
1	Early Works - Logistics - Road	Stockton	Concrete	52	2026	2026			
1	Early Works - Logistics - Road	Tracy	Concrete	664	2026	2026			
9	Early Works - Logistics - Road	Sacramento	Concrete	370	2026	2026			
9	Reach 1	Sacramento	Pre Cast Segment 36' ID x 6' Wide	531541	2030	2036	10.30	40	9.77
9	Reach 2	Sacramento	Pre Cast Segment 36' ID x 6' Wide	748802	2030	2037	14.51	40	9.77
9	Reach 3	Lodi	Concrete	49103	2029	2031			
9	Reach 3	Stockton	Pre Cast Segment 36' ID x 6' Wide	518639	2031	2036	10.05	40	9.77
9	Reach 4	Stockton	Pre Cast Segment 36' ID x 6' Wide	346792	2031	2036	6.72	40	9.77
9	Reach 5E	Stockton	Pre-Cast 38' ID Segment 6'	86182	2031	2032	1.67	40	9.77
9	Reach 5W	Stockton	Pre-Cast 38' ID Segment 6'	86182	2033	2034	1.67	40	9.77
9	Early Works - Logistics - Road	Stockton	Concrete	52	2026	2026			
9	Early Works - Logistics - Road	Tracy	Concrete	664	2026	2026			
9	Reach 6	Stockton	Pre-Cast 38' ID Segment 6'	18082	2033	2034	1.40	20	2.44
5	Early Works - Logistics - Road	Sacramento	Concrete	370	2026	2026			
5	Reach 1	Sacramento	Pre Cast Segment 36' ID x 6' Wide	72764	2031	2034	5.64	26	2.44
5	Reach 2	Sacramento	Pre Cast Segment 36' ID x 6' Wide	187200	2030	2035	14.51	26	2.44
5	Reach 3	Lodi	Concrete	46003	2029	2031			
5	Reach 3	Stockton	Pre Cast Segment 36' ID x 6' Wide	129660	2031	2035	10.05	26	2.44
5	Reach 4	Stockton	Pre Cast Segment 36' ID x 6' Wide	86698	2031	2035	6.72	26	2.44
5	Reach 5E	Stockton	Pre-Cast 38' ID Segment 6'	67828	2030	2031	1.67	38	7.69
5	Reach 5W	Stockton	Pre-Cast 38' ID Segment 6'	67828	2032	2033	1.67	38	7.69
5	Early Works - Logistics - Road	Stockton	Concrete	52	2026	2026			
5	Early Works - Logistics - Road	Tracy	Concrete	664	2026	2026			
7	Early Works - Logistics - Road	Sacramento	Concrete	370	2026	2026			
7	Reach 1	Sacramento	Pre Cast Segment 36' ID x 6' Wide	216917	2030	2034	8.19	31	5.02
7	Reach 2	Sacramento	Pre Cast Segment 36' ID x 6' Wide	384306	2030	2036	14.51	31	5.02
7	Reach 3	Lodi	Concrete	44952	2029	2031			
7	Reach 3	Stockton	Pre Cast Segment 36' ID x 6' Wide	266180	2031	2035	10.05	31	5.02
7	Reach 4	Stockton	Pre Cast Segment 36' ID x 6' Wide	177983	2031	2035	6.72	31	5.02
7	Reach 5E	Stockton	Pre-Cast 38' ID Segment 6'	67828	2031	2032	1.67	38	7.69
7	Reach 5W	Stockton	Pre-Cast 38' ID Segment 6'	67828	2032	2033	1.67	38	7.69
7	Early Works - Logistics - Road	Stockton	Concrete	52	2026	2026			
7	Early Works - Logistics - Road	Tracy	Concrete	664	2026	2026			

Tunnel Lining Concrete Volumes

ID ft	Lining in	OD ft	Area ft2	Volume cy/ft
20	12	22.0	66.0	2.4
28	14	30.3	106.9	4.0
31	16	33.7	135.4	5.0
36	18	39.0	176.7	6.5
38	20	41.3	207.7	7.7
40	24	44.0	263.9	9.8

[illegible]

Preliminary Estimate of Power Required for Double TBM Launch Shaft Site (7,500 cfs and 6,000 cfs option)			
Equipment Description	EPB TBM OPTION Estimated Power (kVA)	Comments	
TBM and Trailing Gear (EPB)	40,000	Assume same for 36' and 40 ' TBM	
Tunnel Ventilation Fans	7,400		
Water Cooling Plant	500		
Foam Plant	500		
Conveyor (Tunnel)*	4,960		
Conveyor (Surface)	460		
Tunnel Lighting	350		
Shaft Pumps	200		
Compressed Air Plant	1,600		
Main Hoist and Shaft Elevator	70		
Shaft Gantry Crane	400		
Shop Facilities	300		
RTM Dryers	3,420	Assume the same for 36 and 40' dia tunnel	
Water Treatment	200		
Change House	40		
Office Trailers	140		
Yard Lighting	80		
Miscellaneous	500		
Recommendation	62,000 kVA		
Preliminary Estimate of Power Required for Double TBM Launch Shaft Site (4,500 cfs and 3,000 cfs option)			
Equipment Description	EPB TBM OPTION Estimated Power (kVA)	Comments	
TBM and Trailing Gear (EPB)	20,000	Assume same for 31' and 26 ' TBM	
Tunnel Ventilation Fans	7,400		
Water Cooling Plant	500		
Foam Plant	500		
Conveyor (Tunnel)	3,720	(75% of 6000/7500 cfs option)	
Conveyor (Surface)	340	(75% of 6000/7500 cfs option)	
Tunnel Lighting	350		
Shaft Pumps	200		
Compressed Air Plant	1,600		
Main Hoist and Shaft Elevator	70		
Shaft Gantry Crane	400		
Shop Facilities	300		
RTM Dryers	2,660		
Water Treatment	200		
Change House	40		
Office Trailers	140		
Yard Lighting	80		
Miscellaneous	500		
Recommendation	39,000 kVA		

APPENDIX G - Preliminary Construction Information for EIR Air Quality and Traffic Analyses for the Eastern Corridor

This appendix provides preliminary construction information for the Eastern Corridor related to quantities of equipment and vehicle use, employee travel needs, and earthwork needed to develop air quality and traffic analyses in the EIR. The information is provided in the following attachments organized by project design capacity option:

- Attachment 1. Project Design Capacity for 6,000 cfs
- Attachment 2. Project Design Capacity for 7,500 cfs
- Attachment 3. Project Design Capacity for 3,000 cfs
- Attachment 4. Project Design Capacity for 4,500 cfs
- Attachment 5. Additional Information for Stockpile Information, Concrete Batch Production, and Power Demand

Each attachment includes workbooks which are organized along the conveyance alignment from the intakes to the Southern Complex, as follows:

- Access roads and park and ride lots for intakes and intake sites
- Access roads, railroad access, ring levee, and the Twin Cities Complex
- Access roads, levee improvements (if applicable), and tunnel shaft sites between Twin Cities Complex and Southern Complex
- Access roads, Southern Complex on Byron Tract, and Southern Complex located to the west of Byron Highway

Common features are not repeated in this Engineering Project Report Update. For example, the Hood-Franklin Road Park and Ride Lot is included for every project design capacity option; and therefore, is only included in Appendix F, Attachment 1 for Alternative 1B. Similarly, Intake 1 with a project design capacity of 6,000 cfs is only included in Appendix F, Attachment 1 for Alternative 1B.

For each feature, the construction information is provided in a format requested by the DCO, including Schedule, Offroad Diesel equipment use, Offroad Electrical equipment use (not including Tunnel Boring Machines – see Power Demand), Onroad vehicle and equipment use, Marine equipment use, Locomotive use, Helicopter use, Earthmoving volumes, Demolition.

The construction air quality analyses assume that the construction specifications would require use of commercially-available electric equipment and vehicles to reduce gasoline and diesel needs, including cranes and trucks. For equipment and vehicles not available as electrically-driven, the specifications would require use of commercially-available hybrid-diesel equipment and vehicles which reduce the use of diesel fuel especially during idling periods. The diesel-driven engines would use renewable diesel fuels.

The construction air quality analyses assume that all circuit breakers would be insulated with SF6-gas-insulated switchgear. This assumption is conservative because the State of California has adopted regulations banning SF6 circuit breakers after 2033 as vacuum or very low-GWP gas insulated breakers become commercially available.

This appendix was developed to provide DWR for consideration during the EIR air quality emissions and traffic analyses. This information was developed assuming that construction would begin in “Year 2026” without consideration of the future schedule for the EIR or permitting processes. The construction activities presented in this appendix were developed based upon a construction period ranging from one to fourteen years depending upon the project feature. The level of effort and duration of the activities would be the same regardless of the actual initial year of construction. Therefore, the items presented in this appendix were provided to DWR assuming the following chronological translation factors.

- Year 2026 = Construction Year 1
- Year 2027 = Construction Year 2
- Year 2028 = Construction Year 3
- Year 2029 = Construction Year 4
- Year 2030 = Construction Year 5
- Year 2031 = Construction Year 6
- Year 2032 = Construction Year 7
- Year 2033 = Construction Year 8
- Year 2034 = Construction Year 9
- Year 2035 = Construction Year 10
- Year 2036 = Construction Year 11
- Year 2037 = Construction Year 12
- Year 2038 = Construction Year 13
- Year 2039 = Construction Year 14

APPENDIX G – ATTACHMENT 1

Project Design Capacity 6,000 cfs

FINAL DRAFT

Construction Schedule for Intake 3 Haul Rd - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	I3 HRd-C&E Access -1	6/25/2027	7/8/2027	14	5	10
Embankment	I3 HRd-C&E Access -2	7/9/2027	7/15/2027	5	5	10
Culvert Pipe	I3 HRd-C&E Access -3	7/16/2027	7/19/2027	3	3	10
Subdrain System	I3 HRd-C&E Access -4	7/20/2027	8/4/2027	14	5	10
Road Base	I3 HRd-C&E Access -5	8/5/2027	8/24/2027	15	5	10
Asphalt Paving	I3 HRd-C&E Access -6	8/25/2027	8/30/2027	5	5	10
KRail and Signs	I3 HRd-C&E Access -7	8/31/2027	8/31/2027	1	1	10
Intermediate Overlay	I3 HRd-C&E Access -8	6/17/2030	6/17/2030	1	1	10
Final Overlay	I3 HRd-C&E Access -9	8/18/2037	8/19/2037	2	2	10

Acres 0.4

Construction Schedule for Intake 5 Haul Rd - Central & Eastern Access Road

All Options

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	I5 HRd-C&E Access -1	4/9/2027	4/26/2027	14	5	10
Embankment	I5 HRd-C&E Access -2	4/27/2027	5/3/2027	5	5	10
Culvert Pipe	I5 HRd-C&E Access -3	5/4/2027	5/5/2027	3	3	10
Subdrain System	I5 HRd-C&E Access -4	5/6/2027	5/25/2027	14	5	10
Road Base	I5 HRd-C&E Access -5	5/26/2027	6/16/2027	16	5	10
Asphalt Paving	I5 HRd-C&E Access -6	6/17/2027	6/23/2027	5	5	10
KRail and Signs	I5 HRd-C&E Access -7	6/24/2027	6/24/2027	1	1	10
Intermediate Overlay	I5 HRd-C&E Access -8	5/15/2030	5/17/2030	3	3	10
Final Overlay	I5 HRd-C&E Access -9	7/1/2037	7/6/2037	5	5	10

Acres

1

Construction Schedule for Intake Haul Rd - Central & Eastern Access Road

Options 1, 2, 7, 8, 9, 10

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	IHRd-C&E Access -1	4/27/2026	7/20/2026	61	5	10
Embankment	IHRd-C&E Access -2	7/21/2026	9/24/2026	48	5	10
Culvert Pipe	IHRd-C&E Access -3	9/25/2026	10/1/2026	5	5	10
Subdrain System	IHRd-C&E Access -4	10/2/2026	12/17/2026	55	5	10
Road Base	IHRd-C&E Access -5	12/18/2026	2/25/2027	50	5	10
Asphalt Paving	IHRd-C&E Access -6	2/26/2027	4/7/2027	30	5	10
KRail and Signs	IHRd-C&E Access -7	4/8/2027	4/8/2027	1	1	10
Intermediate Overlay	IHRd-C&E Access -8	4/30/2030	5/10/2030	9	5	10
Final Overlay	IHRd-C&E Access -9	6/16/2037	7/29/2037	32	5	10

Acres **10.4**

NOTE: Access road between Intakes 2 and 3 are included in Intake 2 tables

Construction Schedule for Lambert Rd - Central & Eastern Access Road

For Intake Access Road Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	LRd-C&E Access -1	2/26/2027	3/2/2027	5	5	10
Culvert Pipe	LRd-C&E Access -2	3/3/2027	3/3/2027	1	1	10
Subdrain System	LRd-C&E Access -3	3/4/2027	3/18/2027	11	5	10
Road Base	LRd-C&E Access -4	3/19/2027	3/31/2027	10	5	10
Asphalt Paving	LRd-C&E Access -5	4/1/2027	4/6/2027	5	5	10
KRail and Signs	LRd-C&E Access -6	4/7/2027	4/20/2027	10	5	10
Intermediate Overlay	LRd-C&E Access -7	5/30/2030	6/7/2030	6	5	10
Final Overlay	LRd-C&E Access -8	7/29/2037	8/7/2037	8	5	10

Acres **12.5**

Construction Schedule for Hood-Franklin Park and Ride

For Intake Employees Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	HFPR -1	4/27/2026	7/31/2026	69	5	10
Embankment	HFPR -2	8/3/2026	8/13/2026	9	2	10
Culvert Pipe	HFPR -3	8/14/2026	8/19/2026	5	3	10
Subdrain System	HFPR -4	8/20/2026	8/25/2026	5	5	10
Road Base	HFPR -5	8/26/2026	10/6/2026	30	5	10
Asphalt Paving	HFPR -6	10/7/2026	11/23/2026	27	5	10
Electrical, Striping, and K-Rail Installation	HFPR -7	11/25/2026	11/27/2026	3	3	10

Acres

4.1

Construction Schedule for Hood-Franklin Road Overlay - Central & Eastern Access Road
 For Intake Access Employee Van - Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B
 THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	HFRd-C&E Overlay -1	11/24/2026	11/30/2026	5	5	10
Intermediate Overlay	HFRd-C&E Overlay -2	4/22/2030	4/29/2030	5	5	10
Final Overlay	HFRd-C&E Overlay -3	6/8/2037	6/16/2037	7	5	10
Acres	7.5					

Construction Schedule for SR160 Overlay - Central & Eastern Access Road
Intakes Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Initial Overlay	SR160 C&E Overlay -1	6/24/2027	7/14/2027	15	5	10
Intermediate Overlay	SR160 C&E Overlay -2	7/23/2030	8/12/2030	20	5	10
Final Overlay	SR160 C&E Overlay -3	8/26/2037	9/16/2037	20	5	10

Construction Schedule for Intake 3_3000 cfs_Central & Eastern**Options 1B, 2B, 7B, 8B, 9B, 10B - Tee Screens****THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1****NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION**

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Development of Initial Intake Box Culverts & Gantry Crane	Intake 3 - Central & Eastern - 1	1/1/2026	3/29/2026	64	5	10
Initial Concrete Placement for Sedimentation Basin	Intake 3 - Central & Eastern - 2	1/1/2026	4/29/2033	1677	5	10
Initial Temporary Buildings	Intake 3 - Central & Eastern - 3	2/11/2030	12/13/2030	220	5	10
Phase 1 Sitework	Intake 3 - Central & Eastern - 4	6/24/2030	6/11/2031	252	5	10
Use of Temporary Buildings	Intake 3 - Central & Eastern - 5	2/11/2030	11/27/2036	1772	5	10
Initial Roads and Move SR 160	Intake 3 - Central & Eastern - 6	5/2/2031	6/6/2031	26	5	10
Phase 2 Sitework - Foundations	Intake 3 - Central & Eastern - 7	6/6/2031	2/15/2033	446	5	10
Install Cofferdam	Intake 3 - Central & Eastern - 8	6/6/2031	12/22/2031	144	5	10
Construct Reception Shaft	Intake 3 - Central & Eastern - 9	8/27/2031	5/24/2032	195	5	10
Place Tremie Seal in Reception Shaft	Intake 3 - Central & Eastern - 10	5/25/2032	5/27/2032	2	2	24
Dewater Reception Shaft	Intake 3 - Central & Eastern - 11	5/28/2032	6/3/2032	5	5	10
Assemble Reception Shaft	Intake 3 - Central & Eastern - 12	6/4/2032	9/2/2032	65	5	10
Intake Structure within Cofferdam	Intake 3 - Central & Eastern - 13	12/31/2031	11/30/2033	500	5	10
Intake Connections and Gates	Intake 3 - Central & Eastern - 14	1/22/2032	1/9/2034	513	5	10
Piles and Concrete in Sedimentation Basin	Intake 3 - Central & Eastern - 15	5/17/2032	3/4/2033	210	5	10
Move SR 160 to Final Location	Intake 3 - Central & Eastern - 16	12/28/2032	2/1/2033	26	5	10
Finish Box Culverts	Intake 3 - Central & Eastern - 17	2/15/2033	3/1/2033	9	5	10
Basin Embankments, Gates, Buildings, and Substation	Intake 3 - Central & Eastern - 18	3/1/2033	3/29/2034	281	5	10
Sedimentation Basin Mechanical and Electrical	Intake 3 - Central & Eastern - 19	4/29/2033	3/21/2034	234	5	10
Install Fish Screen, Appurtenant Facilities, Log Boom, and Rip Rap	Intake 3 - Central & Eastern - 20	6/27/2033	7/20/2034	278	5	10
Remove Cofferdam	Intake 3 - Central & Eastern - 21	2/24/2034	9/21/2034	129	5	10
Finish Site Work, Sedimentation Basin Curtain, and Fencing	Intake 3 - Central & Eastern - 22	2/19/2035	7/22/2036	371	5	10
Finish Sedimentation Basin	Intake 3 - Central & Eastern - 23	8/1/2036	10/2/2036	45	5	10
Finish Intake Exteriors	Intake 3 - Central & Eastern - 24	10/3/2036	11/27/2036	39	5	10
Site Restoration	Intake 3 - Central & Eastern - 25	11/28/2036	3/2/2037	69	5	10

Total Site Acres**240**

Construction Schedule for Intake 5_3000 cfs_Central & Eastern**Options 1B, 2B, 5B, 6B, 9B, 10B - Tee Screens****THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1****NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION**

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Development of Initial Intake Box Culverts & Gantry Crane	Intake 5 - Central & Eastern - 1	1/1/2026	3/29/2026	64	5	10
Initial Temporary Buildings	Intake 5 - Central & Eastern - 2	4/2/2029	3/3/2030	240	5	10
Phase 1 Sitework	Intake 5 - Central & Eastern - 3	3/4/2030	2/20/2031	253	5	10
Operations of Temporary Buildings	Intake 5 - Central & Eastern - 4	3/4/2030	8/9/2035	1418	5	10
Phase 2 Sitework - Foundations	Intake 5 - Central & Eastern - 5	10/25/2029	7/27/2032	920	5	10
Initial Roads and Move SR 160	Intake 5 - Central & Eastern - 6	10/3/2030	11/17/2030	33	5	10
Install Cofferdam	Intake 5 - Central & Eastern - 7	11/17/2030	9/8/2031	211	5	10
Construct Reception Shaft	Intake 5 - Central & Eastern - 8	2/27/2031	10/23/2031	164	5	10
Place Tremie Seal in Reception Shaft	Intake 5 - Central & Eastern - 9	10/26/2031	10/28/2031	3	5	10
Dewater Reception Shaft	Intake 5 - Central & Eastern - 10	10/29/2031	11/4/2031	5	2	24
Assemble Reception Shaft	Intake 5 - Central & Eastern - 11	11/5/2031	3/1/2032	84	5	10
Intake Structure within Cofferdam	Intake 5 - Central & Eastern - 12	7/24/2031	12/9/2033	360	5	10
Piles and Concrete in Sedimentation Basin	Intake 5 - Central & Eastern - 13	11/7/2031	10/20/2032	249	5	10
Intake Connections and Gates	Intake 5 - Central & Eastern - 14	1/10/2032	12/7/2033	597	5	10
Sedimentation Basin Mechanical and Electrical	Intake 5 - Central & Eastern - 15	10/6/2032	10/19/2033	270	5	10
Finish Box Culverts	Intake 5 - Central & Eastern - 16	10/27/2032	11/9/2032	9	5	10
Install Fish Screen, Appurtenant Facilities, Log Boom, and Rip Rap	Intake 5 - Central & Eastern - 17	5/25/2033	9/15/2034	342	5	10
Move SR 160 to Final Location	Intake 5 - Central & Eastern - 18	6/20/2033	8/12/2033	39	5	10
Basin Embankments, Gates, Buildings, and Substation	Intake 5 - Central & Eastern - 19	8/12/2033	7/31/2034	253	5	10
Remove Cofferdam - Phase 1	Intake 5 - Central & Eastern - 20	1/24/2034	5/29/2034	91	5	10
Remove Cofferdam - Phase 2	Intake 5 - Central & Eastern - 21	11/1/2035	1/8/2036	51	5	10
Finish Site Work, Sedimentation Basin Curtain, and Fencing	Intake 5 - Central & Eastern - 22	6/20/2034	4/27/2035	223	5	10
Finish Intake Exteriors	Intake 5 - Central & Eastern - 23	10/26/2034	8/9/2035	205	5	10
Site Restoration	Intake 5 - Central & Eastern - 24	12/21/2034	3/23/2035	67	5	10
Finish Sedimentation Basin	Intake 5 - Central & Eastern - 25	3/1/2035	5/10/2035	51	5	10

Total Site Acres**240**

Construction Schedule for Lambert Rd Conc Batch Plant - Central & Eastern

Options 1A, 1B, 2A, 2B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	LR CBP-C&E -1	10/7/2026	10/14/2026	6	5	10
Embankment	LR CBP-C&E -2	10/15/2026	10/15/2026	1	1	10
Culvert Pipe	LR CBP-C&E -3	10/16/2026	10/16/2026	1	1	10
Subdrain System	LR CBP-C&E -4	10/19/2026	10/19/2026	1	1	10
Road Base	LR CBP-C&E -5	10/20/2026	10/22/2026	3	3	10
Asphalt Paving	LR CBP-C&E -6	10/23/2026	10/27/2026	5	5	10
Erect Batch Plant	LR CBP-C&E -7	10/28/2026	12/22/2026	40	5	10
Batch Plant Operations - Phase 1 - Concrete for Shafts	LR CBP-C&E -8	3/17/2027	3/14/2031	1041	5	10
Batch Plant Operations - Phase 2 - Concrete for Intake 5	LR CBP-C&E -9	4/2/2029	10/25/2034	1452	5	10
Batch Plant Operations - Phase 3 - Concrete for Intake 3	LR CBP-C&E -10	2/11/2030	1/29/2035	1294	5	10

Acres

Construction Schedule for Dierssen Rd - Central & Eastern Access Road Options 1A, 1B, 2A, 2B, 5A,
5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	DRd-C&E Access -1	1/18/2027	1/21/2027	4	4	10
Embankment	DRd-C&E Access -2	1/22/2027	1/26/2027	5	5	10
Culvert Pipe	DRd-C&E Access -3	1/27/2027	1/27/2027	1	1	10
Subdrain System	DRd-C&E Access -4	1/28/2027	2/9/2027	9	5	10
Road Base	DRd-C&E Access -5	2/10/2027	2/18/2027	7	5	10
Asphalt Paving	DRd-C&E Access -6	2/19/2027	2/22/2027	4	4	10
KRail and Signs	DRd-C&E Access -7	2/23/2027	3/16/2027	14	5	10
Intermediate Overlay	DRd-C&E Access -8	5/22/2030	5/24/2030	3	3	10
Final Overlay	DRd-C&E Access -9	7/21/2037	7/24/2037	4	4	10

Acres 7.2

Construction Schedule for Franklin Blvd RR - Central & Eastern Access Road
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Sub-Ballast	FB RR-C&E Access -1	6/10/2026	6/25/2026	12	5	10
Ballast	FB RR-C&E Access -2	6/26/2026	7/14/2026	15	5	10
Track	FB RR-C&E Access -3	7/15/2026	8/27/2026	32	5	10

Construction Schedule for Franklin Blvd - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	FB-C&E Access -1	11/24/2026	11/30/2026	5	5	10
Embankment	FB-C&E Access -2	12/1/2026	12/16/2026	12	5	10
Culvert Pipe	FB-C&E Access -3	12/17/2026	12/17/2026	1	1	10
Subdrain System	FB-C&E Access -4	12/18/2026	12/28/2026	9	5	10
Road Base	FB-C&E Access -5	12/29/2026	1/15/2027	14	5	10
Asphalt Paving	FB-C&E Access -6	1/18/2027	1/21/2027	4	4	10
KRail and Signs	FB-C&E Access -7	1/22/2027	1/22/2027	1	1	10
Intermediate Overlay	FB-C&E Access -8	5/27/2030	5/29/2030	3	3	10
Final Overlay	FB-C&E Access -9	7/24/2037	7/29/2037	4	4	10

Acres

5

Construction Schedule for Twin Cities Ring Levee - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Construct Ring Levee	TCC RL-C&E -1	2/28/2028	6/19/2028	96	5	10

Acres44.8

Construction Schedule for Twin Cities Rd - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	TC Rd-C&E Access -1	1/5/2026	1/7/2026	3	3	10
Culvert Pipe & Subdrain System	TC Rd-C&E Access -2	1/8/2026	1/19/2026	10	5	10
Road Base	TC Rd-C&E Access -3	1/20/2026	2/9/2026	15	5	10
Asphalt Paving & KRail and Signs	TC Rd-C&E Access -4	2/10/2026	2/16/2026	5	5	10
Intermediate Overlay	TC Rd-C&E Access -5	6/10/2030	6/12/2030	3	3	10
Final Overlay	TC Rd-C&E Access -6	9/30/2037	10/5/2037	5	5	10

Acres **3.9**

**Construction Schedule for Twin Cities Complex - Eastern Tunnel Shaft
Options 2A, 2B**

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Mobilize, Excavate, & Mobilize	TCC-Eastern - 1	2/2/2026	6/5/2026	90	5	10
Embankment	TCC-Eastern - 2	3/12/2026	4/21/2026	29	5	10
Subdrain	TCC-Eastern - 3	4/22/2026	6/9/2026	34	5	10
Management, Engineering, & Field Labor - Reach 2	TCC-Eastern - 4	3/17/2027	4/9/2037	1561	5	10
Clear and Grub	TCC-Eastern - 5	5/12/2027	7/12/2027	44	5	10
Excavation, Grading, & Compaction - Reach 2	TCC-Eastern - 6	7/13/2027	4/24/2028	204	5	10
Raise Shaft Pad for Reach 2	TCC-Eastern - 7	9/7/2027	4/3/2028	149	5	10
Set Strips, & Concrete for Reach 2	TCC-Eastern - 8	8/16/2027	11/12/2027	65	5	10
Place Guide Walls Concrete for Reach 2	TCC-Eastern - 9	4/3/2028	6/20/2028	57	5	10
Slurry Wall, Place Concrete & Rebar, Slurry Wall, Remove Guide Wall, & add Top Beam for Reach 2	TCC-Eastern - 10	4/27/2028	8/17/2028	81	5	10
Place Guide Walls Concrete for Reach 1	TCC-Eastern - 11	8/8/2028	8/30/2028	17	5	10
Slurry Wall, Place Concrete & Rebar, Slurry Wall, Remove Guide Wall, & add Top Beam for Reach 1	TCC-Eastern - 12	8/29/2028	1/3/2029	92	5	10
Excavate Shaft for Reach 2	TCC-Eastern - 13	1/4/2029	4/4/2029	65	5	10
Management, Engineering, & Field Labor - Reach 1	TCC-Eastern - 14	3/21/2029	3/14/2035	1916	5	10
Shaft Setup for Reach 1	TCC-Eastern - 15	3/21/2029	4/18/2029	19	5	10
Excavate Shaft for Reach 1	TCC-Eastern - 16	4/4/2029	7/3/2029	65	5	10
Place Tremie Seal Rebar, Cooling Pipes, & Seal for Reaches 1 & 2	TCC-Eastern - 17	6/19/2029	7/31/2029	43	7	24
Dewater Shaft for Reaches 1 & 2	TCC-Eastern - 18	7/17/2029	8/7/2029	21	7	24
Place TBM Cradle Rebar and Cradle Pour for Reaches 1 & 2	TCC-Eastern - 19	7/24/2029	8/20/2029	20	5	10
Breakout Slurry Wall for TBM for Reaches 1 & 2	TCC-Eastern - 20	8/6/2029	9/17/2029	41	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner Reaches 1 & 2	TCC-Eastern - 21	9/3/2029	1/9/2030	93	5	10
Erect Gantry Crane for Reaches 1 & 2	TCC-Eastern - 22	11/16/2029	12/11/2029	19	5	10
TBM Assembly including Shaft Utilities for Reach 2	TCC-Eastern - 23	12/10/2029	6/6/2030	105	5	10
Tunneling Operations including Equipment Delivery for Reach 2	TCC-Eastern - 24	6/6/2030	12/4/2036	2064	6	20
TBM Assembly including Shaft Utilities for Reach 1	TCC-Eastern - 25	7/17/2030	12/31/2030	120	5	10
Tunneling Operations including Equipment Delivery for Reach 1	TCC-Eastern - 26	11/6/2030	12/28/2034	1297	6	20
Remove TBM and Tunnel Equipment for Reach 1	TCC-Eastern - 27	12/29/2034	2/22/2035	40	5	10
Remove TBM and Tunnel Equipment for Reach 2	TCC-Eastern - 28	2/4/2037	4/9/2037	46	5	10
Site Restoration	TCC-Eastern - 29	3/26/2037	9/30/2037	135	5	10

Total Site Acres

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Offroad Equipment (Fossil Fuel) Inventory for Twin Cities Complex - Eastern Tunnel Shaft
Options 2A, 2B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
TCC-Eastern - 1	Air Compressor 185 CFM	Air Compressor	298.66	90	3.3	Diesel Tier 4	49	0.48		
TCC-Eastern - 1	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	149.34	90	1.7	Diesel or Hybrid	75	0.31		
TCC-Eastern - 1	Boom Truck, 12.5 Tn Boom	Crane	149.34	90	1.7	Diesel or Hybrid	100	0.29		
TCC-Eastern - 1	CAT D6LGPDozer w winch	Crawler Tractor	364.43	90	4.0	Diesel or Hybrid	179	0.43		
TCC-Eastern - 1	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	182.21	90	2.0	Diesel	384	0.38		
TCC-Eastern - 1	Hydraulic 9 Ton Crane	Crane	400	90	4.4	Diesel	85	0.29		
TCC-Eastern - 1	Hydraulic 40 Ton Crane	Crane	400	90	4.4	Diesel	300	0.29		
TCC-Eastern - 1	CAT Forklift 5,500 LB	Aerial Lift	400	90	4.4	Diesel	63	0.31		
TCC-Eastern - 2	CAT D6LGPDozer w winch	Crawler Tractor	232.83	29	8.0	Diesel or Hybrid	179	0.43		
TCC-Eastern - 2	Disk, Towed	Off-Highway Tractor	232.83	29	8.0	Diesel	140	0.44		
TCC-Eastern - 2	CAT 14 M	Grader	116.41	29	4.0	Diesel	274	0.41		
TCC-Eastern - 2	Water Pump 4" Electric	Pumps	27.94	29	1.0	Diesel	10	0.74		
TCC-Eastern - 2	CAT 825, Roller	Rollers	232.83	29	8.0	Diesel	315	0.38		
TCC-Eastern - 2	Light Plant, 4 lite, 1000w, Tower/Mast	Generators	931.3	29	32.1	Diesel	12	0.74		
TCC-Eastern - 3	CAT LOADER/HOE 416 E	Rubber Tired Loader	87.31	34	2.6	Diesel	78	0.36		
TCC-Eastern - 3	Compactor, Trench Roller, Vib 32"w	Roller	174.63	34	5.1	Diesel	20	0.38		
TCC-Eastern - 5	CAT D8 Dozer	Crawler Tractor	990.0	44	22.5	Diesel Tier 4 or Hybrid Diesel	179	0.43		
TCC-Eastern - 5	Grader 16H - 16' Blade	Grader	990.0	44	22.5	Diesel	285	0.41		
TCC-Eastern - 5	623G Scraper Elevate 21 CY	Scaper	1980.0	44	45.0	Diesel	359	0.48		
TCC-Eastern - 6	CAT 825H Compactor	Rollers	240	24	10.0	Diesel	145	0.38		
TCC-Eastern - 6	CAT CB-634D Vibratory 84"	Rollers	240	24	10.0	Diesel	315	0.38		
TCC-Eastern - 6	CAT Grader 16H	Grader	816	24	34	Diesel	285	0.41		
TCC-Eastern - 6	CAT 980 Loader 7.5 CY	Grader	240	24	10.0	Diesel	285	0.41		
TCC-Eastern - 6	CAT D8 Dozer	Crawler Tractor	504	24	21	Diesel Tier 4 or Hybrid Diesel	179	0.43		
TCC-Eastern - 6	623G Scraper Elevate 21 CY	Scaper	816	24	34	Diesel	359	0.48		
TCC-Eastern - 7	CAT CB-634D Vibratory 84"	Rollers	1643.18	149	11.0	Diesel	315	0.38		
TCC-Eastern - 7	CAT Grader 16H	Grader	1643.18	149	11.0	Diesel	285	0.41		
TCC-Eastern - 7	CAT D8 Dozer	Crawler Tractor	1643.18	149	11.0	Diesel Tier 4 or Hybrid Diesel	179	0.43		
TCC-Eastern - 8	CAT CB-634D Vibratory 84"	Rollers	3852.63	65	59.3	Diesel	145	0.38		
TCC-Eastern - 8	CAT Grader 16H	Graders	3852.63	65	59.3	Diesel	285	0.41		
TCC-Eastern - 8	CAT D8 Dozer	Crawler Tractor	3852.63	65	59.3	Diesel	328	0.43		
TCC-Eastern - 8	Hydraulic 9 Ton Crane	Crane	453.22	65	7.0	Diesel	85	0.29		
TCC-Eastern - 9	CAT Hyd Excavator 1CY	Excavator	9.6	57	0.2	Diesel	138	0.38		
TCC-Eastern - 9	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	9.6	57	0.2	Diesel or Hybrid	130	0.36		
TCC-Eastern - 10	Manitowoc 777 200 Ton Crane	Crane	1016	81	12.5	Diesel	760	0.29		
TCC-Eastern - 10	1600 CFM Compressor Diesel	Air Compressor	508	81	6.3	Diesel Tier 4	540	0.48		
TCC-Eastern - 10	Hydraulic 55 Ton Crane	Crane	1016	81	12.5	Diesel	350	0.29		
TCC-Eastern - 10	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	508	81	6.3	Diesel or Hybrid	130	0.36		
TCC-Eastern - 10	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	508	81	6.3	Diesel	8	0.56		
TCC-Eastern - 10	Slurry Wall Techniwell	Pumps	508	81	6.3	Diesel	500	0.74		
TCC-Eastern - 10	CAT Hyd Excavator 1CY	Excavator	380	81	4.7	Diesel	138	0.38		
TCC-Eastern - 10	Hydraulic Excavator to 3.5 tons = Kobelco SK485LC' 2.75cy' 345 hp Excavator	Excavator	380	81	4.7	Diesel	345	0.38		
TCC-Eastern - 10	250 CFM Compressor Diesel	Air Compressor	14	81	0.2	Diesel Tier 3	75	0.48		
TCC-Eastern - 12	CAT Hyd Excavator 1CY	Excavator	389.6	92	4.2	Diesel	138	0.38		
TCC-Eastern - 12	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	897.6	92	9.8	Diesel or Hybrid	130	0.36		
TCC-Eastern - 12	250 CFM Compressor Diesel	Air Compressor	14	92	0.2	Diesel Tier 3	75	0.48		
TCC-Eastern - 12	Hydraulic Excavator to 3.5 tons = Kobelco SK485LC' 2.75cy' 345 hp Excavator	Excavator	380	92	4.1	Diesel	345	0.38		
TCC-Eastern - 12	1600 CFM Compressor Diesel	Air Compressor	508	92	5.5	Diesel Tier 4	540	0.48		
TCC-Eastern - 12	Hydraulic 55 Ton Crane	Crane	1016	92	11.0	Diesel	350	0.29		
TCC-Eastern - 12	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	508	92	5.5	Diesel	8	0.56		
TCC-Eastern - 12	Slurry Wall Techniwell	Pumps	508	92	5.5	Diesel	500	0.74		
TCC-Eastern - 12	Manitowoc 777 200 Ton Crane	Crane	1016	92	11.0	Diesel	760	0.29		
TCC-Eastern - 13	Manitowoc 777 200 Ton Crane	Crane	688	65	10.6	Diesel	760	0.29		
TCC-Eastern - 15	Hydraulic 40 Ton Crane	Crane	400	19	21.1	Diesel	300	0.29		
TCC-Eastern - 15	Hydraulic 25 Ton Crane	Crane	160	19	8.4	Diesel	100	0.29		
TCC-Eastern - 15	Hydraulic 9 Ton Crane	Crane	400	19	21.1	Diesel	85	0.29		
TCC-Eastern - 15	CAT Forklift 5,500 LB	Aerial Lift	400	19	21.1	Diesel	63	0.31		
TCC-Eastern - 15	Heavy Duty Mechanic Welder	Welder	160	19	8.4	Diesel	400	0.45		
TCC-Eastern - 15	1600 CFM Compressor Diesel	Air Compressor	160	19	8.4	Diesel Tier 4	540	0.48		
TCC-Eastern - 15	Truck Crane Lattice Boom 90T	Crane	160	19	8.4	Diesel Tier 4	300	0.29		
TCC-Eastern - 15	Telescope RT Forklift 5500	Forklift	160	19	8.4	Diesel	63	0.2		
TCC-Eastern - 16	Manitowoc 777 200 Ton Crane	Crane	688	65	10.6	Diesel	760	0.29		
TCC-Eastern - 17	Manitowoc 777 200 Ton Crane	Crane	466	43	10.8	Diesel	760	0.29		
TCC-Eastern - 17	Hydraulic 40 Ton Crane	Crane	160	43	3.7	Diesel	300	0.29		
TCC-Eastern - 17	Hydraulic 25 Ton Crane	Crane	397.3	43	9.2	Diesel	100	0.29		
TCC-Eastern - 18	Hydraulic 15 Ton Crane	Crane	200	21	9.5	Diesel	85	0.29		
TCC-Eastern - 18	Dewater Pump 6"	Pump	800	21	38.1	Diesel	50	0.74		
TCC-Eastern - 18	150 KW Diesel Generator	Generator	200	21	9.5	Diesel Tier 4	183	0.74		
TCC-Eastern - 19	Manitowoc 777 200 Ton Crane	Crane	184.6	20	9.2	Diesel	760	0.29		
TCC-Eastern - 19	Trailer Conc Pump 100 CY HR	Pump	21.3	20	1.1	Diesel	200	0.74		
TCC-Eastern - 19	250 CFM Compressor Diesel	Air Compressor	42.6	20	2.1	Diesel Tier 3	75	0.48		
TCC-Eastern - 20	250 CFM Compressor Diesel	Air Compressor	544.44	41	13.3	Diesel Tier 3	75	0.48		
TCC-Eastern - 20	Manitowoc 777 200 Ton Crane	Crane	544.44	41	13.3	Diesel	760	0.29		
TCC-Eastern - 21	250 CFM Compressor Diesel	Air Compressor	1109.96	93	11.9	Diesel Tier 3	75	0.48		
TCC-Eastern - 21	Manitowoc 777 200 Ton Crane	Crane	1306.32	93	14.0	Diesel	760	0.29		

TCC-Eastern - 21	Trailer Conc Pump 100 CY HR	Pump	394.98	93	4.2	Diesel	200	0.74
TCC-Eastern - 22	1600 CFM Compressor Diesel	Air Compressor	160	19	8.4	Diesel Tier 4	540	0.48
TCC-Eastern - 22	Hydraulic 25 Ton Crane	Crane	160	19	8.4	Diesel	100	0.29
TCC-Eastern - 22	Truck Crane Lattice Boom 90T	Crane	160	19	8.4	Diesel Tier 4	300	0.29
TCC-Eastern - 22	Telescope RT Forklift 5500	Forklift	160	19	8.4	Diesel	63	0.2
TCC-Eastern - 22	Heavy Duty Mechanic Welder	Welder	160	19	8.4	Diesel	400	0.45
TCC-Eastern - 23	250 CFM Compressor Diesel	Air Compressor	2300	105	21.9	Diesel Tier 3	75	0.48
TCC-Eastern - 23	Hydraulic 40 Ton Crane	Crane	3174	105	30.2	Diesel	300	0.29
TCC-Eastern - 23	Hydraulic 9 Ton Crane	Crane	2274	105	21.7	Diesel	85	0.29
TCC-Eastern - 23	CAT Forklift 5,500 LB	Aerial Lift	2274	105	21.7	Diesel	63	0.31
TCC-Eastern - 24	250 CFM Compressor Diesel	Air Compressor	31660	2064	15.3	Diesel Tier 3	75	0.48
TCC-Eastern - 24	CAT 988 H Wheel Loader	Rubber Tired Loader	16145	2064	7.8	Diesel	400	0.36
TCC-Eastern - 24	CAT D8 Dozer	Crawler Tractor	16145	2064	7.8	Diesel	85	0.29
TCC-Eastern - 24	CAT Forklift 5,500 LB	Aerial Lift	16345.6	2064	7.9	Diesel	63	0.31
TCC-Eastern - 24	Hydraulic 40 Ton Crane	Crane	16345.6	2064	7.9	Diesel Tier 4 or Hybrid Diesel	179	0.43
TCC-Eastern - 24	Hydraulic 9 Ton Crane	Crane	16345.6	2064	7.9	Diesel	285	0.41
TCC-Eastern - 24	Manitowoc 777 200 Ton Crane	Crane	42017	2064	20.4	Diesel	760	0.29
TCC-Eastern - 24	Grout Pump	Cement & Mortar Mix	1538	1297	1.2	Diesel	500	0.56
TCC-Eastern - 24	Grout Mixer	Cement & Mortar Mix	1538	1297	1.2	Diesel	70	0.56
TCC-Eastern - 25	250 CFM Compressor Diesel	Air Compressor	2300	120	19.2	Diesel Tier 3	75	0.48
TCC-Eastern - 25	Hydraulic 40 Ton Crane	Crane	900	120	7.5	Diesel	300	0.29
TCC-Eastern - 26	250 CFM Compressor Diesel	Air Compressor	19767.38	1297	15.2	Diesel Tier 3	75	0.48
TCC-Eastern - 26	Hydraulic 40 Ton Crane	Crane	10538.78	1297	8.1	Diesel	300	0.29
TCC-Eastern - 26	Hydraulic 9 Ton Crane	Crane	10538.78	1297	8.1	Diesel	85	0.29
TCC-Eastern - 26	CAT Forklift 5,500 LB	Aerial Lift	10538.78	1297	8.1	Diesel	63	0.31
TCC-Eastern - 26	CAT D8 Dozer	Crawler Tractor	10340	1297	8.0	Diesel Tier 4 or Hybrid Diesel	179	0.43
TCC-Eastern - 26	CAT 980 Loader 7.5 CY	Grader	10340	1297	8.0	Diesel	285	0.41
TCC-Eastern - 26	Grout Pump	Cement & Mortar Mix	974.76	1297	0.8	Diesel	500	0.56
TCC-Eastern - 26	Grout Mixer	Cement & Mortar Mix	974.76	1297	0.8	Diesel	70	0.56
TCC-Eastern - 27	Hydraulic 55 Ton Crane	Crane	715	40	17.9	Diesel	350	0.29
TCC-Eastern - 27	Manitowoc 777 200 Ton Crane	Crane	715	40	17.9	Diesel	760	0.29
TCC-Eastern - 27	Telescope RT Forklift 5500	Forklift	690	40	17.3	Diesel	63	0.2
TCC-Eastern - 27	1600 CFM Compressor Diesel	Air Compressor	100	40	2.5	Diesel Tier 4	540	0.48
TCC-Eastern - 27	Hydraulic 25 Ton Crane	Crane	100	40	2.5	Diesel	100	0.29
TCC-Eastern - 27	Truck Crane Lattice Boom 90T	Crane	100	40	2.5	Diesel Tier 4	300	0.29
TCC-Eastern - 27	Telescope RT Forklift 5500	Forklift	100	40	2.5	Diesel	63	0.2
TCC-Eastern - 27	Heavy Duty Mechanic Welder	Welder	100	40	2.5	Diesel	400	0.45
TCC-Eastern - 27	Hydraulic 40 Ton Crane	Crane	80	40	2.0	Diesel	300	0.29
TCC-Eastern - 27	Hydraulic 9 Ton Crane	Crane	80	40	2.0	Diesel	85	0.29
TCC-Eastern - 27	CAT Forklift 5,500 LB	Aerial Lift	80	40	2.0	Diesel	63	0.31
TCC-Eastern - 28	Hydraulic 55 Ton Crane	Crane	1235	46	26.8	Diesel	350	0.29
TCC-Eastern - 28	Manitowoc 777 200 Ton Crane	Crane	715	46	15.5	Diesel	760	0.29
TCC-Eastern - 28	Telescope RT Forklift 5500	Forklift	990	46	21.5	Diesel	63	0.2
TCC-Eastern - 28	1600 CFM Compressor Diesel	Air Compressor	100	46	2.2	Diesel Tier 4	540	0.48
TCC-Eastern - 28	Hydraulic 25 Ton Crane	Crane	100	46	2.2	Diesel	100	0.29
TCC-Eastern - 28	Truck Crane Lattice Boom 90T	Crane	100	46	2.2	Diesel Tier 4	300	0.29
TCC-Eastern - 28	Heavy Duty Mechanic Welder	Welder	100	46	2.2	Diesel	400	0.45
TCC-Eastern - 29	CAT D8Rii, Dozer w winch	Crawler Tractor	2150	135	15.9	Diesel	310	0.43
TCC-Eastern - 29	CAT 12 M	Grader	700	135	5.2	Diesel	173	0.41
TCC-Eastern - 29	CAT 815, Roller	Rollers	500	135	3.7	Diesel	170	0.38
TCC-Eastern - 29	CAT 621G Scraper, Conventional	Scraper	500	135	3.7	Diesel	330	0.48
TCC-Eastern - 29	Cat 6 mgal w/ CAT 725 Tractor, 320hp	Crawler Tractor	4510	135	33.4	Diesel	320	0.43
TCC-Eastern - 29	CAT Hyd Excavator 1CY	Excavator	207.9	135	1.5	Diesel	138	0.38
TCC-Eastern - 29	Manitowoc 777 200 Ton Crane	Crane	207.9	135	1.5	Diesel	760	0.29
TCC-Eastern - 29	CAT 966 Loader 5.5 CY	Rubber Tired Loader	207.9	135	1.5	Diesel	286	0.36
TCC-Eastern - 29	CAT 390 MASS EXC	Excavator	700	135	5.2	Diesel	534	0.38
TCC-Eastern - 29	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	2100	135	15.6	Diesel	345	0.38
TCC-Eastern - 29	Farm Tractor, All Wheel Drive, 285 HP	Off-Highway Tractor	810	135	6.0	Diesel	80	0.44
TCC-Eastern - 29	CAT 966 GII Wheel Loader	Rubber Tired Loader	100	135	0.7	Diesel	170	0.36
TCC-Eastern - 29	CAT D9R, Dozer w ripper	Crawler Tractor	1560	135	11.6	Diesel	410	0.43
TCC-Eastern - 29	CAT 631G Scraper, Conventional	Scraper	1650	135	12.2	Diesel	515	0.48
TCC-Eastern - 29	Disk, Towed	Off-Highway Tractor	280	135	2.1	Diesel	140	0.44
TCC-Eastern - 29	Hydro Mulcher, 18 HP	Pump	100	135	0.7	Diesel	25	0.29

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

**Offroad Equipment (Electric) Inventory for Twin Cities Complex - Eastern Tunnel Sh
Options 2A, 2B**

Code	Equipment Name	Hours
TCC-Eastern - 1	400A, Electric Welder	298.66
TCC-Eastern -2	400A, Electric Welder	7.53
TCC-Eastern - 23	Gantry Crane	1150
TCC-Eastern - 23	Axial Fan 114,000 CFM	5292
TCC-Eastern - 24	Axial Fan 114,000 CFM	312507.8
TCC-Eastern - 25	Gantry Crane	2150
TCC-Eastern - 25	Axial Fan 114,000 CFM	650
TCC-Eastern - 26	Gantry Crane	56744
TCC-Eastern - 26	Axial Fan 114,000 CFM	198284
TCC-Eastern - 27	Gantry Crane	690
TCC-Eastern - 28	Gantry Crane	890

Electricity for TBM Operations included in the Summary Workbook

aft

# day	kW	kWh/day / equipment
90	0.25	1
1561	0.25	0
105	0.25	3
105	50	2,520
2064	50	7,570
120	0.25	4
120	50	271
1297	0.25	11
1297	50	7,644
40	0.25	4
46	0.25	5

Vehicle Inventory for Twin Cities Comalex - Eastern Tunnel Shaft
Options 2A, 2B

Code	Vehicle	Primary Trip Purpose/Location (with construction footprint vs. office)	# day	Vehicle Hours	Hours/trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
TCC-Eastern - 1	Pickup, 1/2T, 2wd	Materials from Sacramento	90	389.8	0.6	688	7.6	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 1	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	90	400.0	0.6	706	7.8	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 1	Truck, Flatbed, 10T, Hwy	Crane, Tractor and Aerial Lift from Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 1	Truck, Flatbed, 10T, Hwy	Excavator, Two Cranes, Aerial Lift from and to Sacramento	2	2.3	0.6	4	2.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 2	Pickup, 1/2T, 2wd	Materials from Sacramento	29	232.8	0.6	411	14.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 2	Truck, Flatbed, 10T, Hwy	Roller from Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 2	Truck, Flatbed, 10T, Hwy	Tractor to Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 2	Truck, Flatbed, 10T, Hwy	Grader from and to Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 3	Truck, Flatbed, 10T, Hwy	Loader from and to Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 5	Truck, Flatbed, 10T, Hwy	Dozer, Scraper, and Grader from Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 6	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	24	133.2	0.6	285	9.8	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 6	Truck, Flatbed, 10T, Hwy	Roller from Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 6	Truck, Flatbed, 10T, Hwy	Roller, Grader, and Scraper to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 6	Truck, Flatbed, 10T, Hwy	Loader from and to Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 7	Highway Dump Truck 18 CY	Materials from Sacramento	149	96.3	0.6	170	1.1	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 7	Truck, Flatbed, 10T, Hwy	Grader from Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 7	Truck, Flatbed, 10T, Hwy	Two Cranes from and to Sacramento	2	2.3	0.6	4	2.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 8	Truck Flatbed 4 T Highway	Rebar from Sacramento	65	8.5	0.6	15	0.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 8	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	65	39.7	0.0	1190	18.3	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Eastern - 8	Truck, Flatbed, 10T, Hwy	Dozer, Grader, and Roller to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 8	Truck, Flatbed, 10T, Hwy	Crane from and to Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 9	Truck, Flatbed, 10T, Hwy	Excavator and Loader from Sacramento	1	1.1	0.6	2	2.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 9	Truck Flatbed 4 T Highway	Rebar from Sacramento	57	33.4	0.6	59	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 9	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	57	45.8	0.0	1324	24.1	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Eastern - 9	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	57	96.3	0.6	170	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 10	Truck, Flatbed, 10T, Hwy	Excavator and Two Cranes from Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 11	Truck Flatbed 4 T Highway	Rebar from Sacramento	17	0.6	0.6	1	0.1	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 11	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	17	1.8	0.0	54	3.2	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Eastern - 12	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	92	38.3	0.0	1150	12.5	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Eastern - 12	Truck Flatbed 4 T Highway	Rebar from Sacramento	92	34.0	0.6	60	0.7	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 12	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	92	96.3	0.6	170	1.8	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 12	Truck, Flatbed, 10T, Hwy	Two Excavators, Loader, and Crane from Sacramento	1	2.3	0.6	4	4.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 15	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	19	96.3	0.6	170	8.9	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 15	Truck, Flatbed, 10T, Hwy	Five Cranes and Aerial Lift from Sacramento	1	3.4	0.6	6	6.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 17	Truck Flatbed 4 T Highway	Rebar from Sacramento	43	17.0	0.6	30	0.7	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 17	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	43	83.7	0.0	2512	58.4	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Eastern - 18	Truck, Flatbed, 10T, Hwy	Crane from and to Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 19	Truck Flatbed 4 T Highway	Rebar from Sacramento	20	2.3	0.6	4	0.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 19	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	20	6.0	0.0	180	9.0	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Eastern - 20	Truck Flatbed 4 T Highway	Rebar from Sacramento	41	5.1	0.6	9	0.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 21	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	93	29.5	0.0	884	9.5	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Eastern - 23	Truck, Flatbed, 10T, Hwy	Pre-Cast Segments from Sacramento	105	275.4	0.6	486	4.6	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 24	Truck Flatbed 4 T Highway	Materials from Sacramento	2064	147.3	0.6	260	0.1	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 24	Truck Flatbed 4 T Highway	Materials from Sacramento	2064	224.4	0.6	396	0.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 24	Truck, Flatbed, 10T, Hwy	Pre-Cast Segments from Sacramento	2064	10092.9	0.6	17811	8.6	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 24	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	2064	83263.8	0.6	146936	71.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 25	Truck, Flatbed, 10T, Hwy	Pre-Cast Segments from Sacramento	120	69.1	0.6	122	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 26	Truck, Flatbed, 10T, Hwy	Dozer Tractor and Loader Grader to Sacramento	1	1.1	0.6	2	2.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 26	Truck, Flatbed, 10T, Hwy	Pre-Cast Segments from Sacramento	1297	6343.8	0.6	11195	8.6	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 27	Truck, Flatbed, 10T, Hwy	Three Cranes to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 28	Truck, Flatbed, 10T, Hwy	Remove TBM to Sacramento	46	180.0	0.6	318	6.9	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 28	Truck, Flatbed, 10T, Hwy	Two Aerial Lifts and Crane to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	

TCC Eastern - 29	Truck, Flatbed, 10T, Hwy	Scraper, Four Tractors, Grader, Roller, Scraper, Loader, and Excavator to/from Sacramento	2	5.7	0.6	10	5.0	Twin Cities Complex to/from Sacramento	17	34	Diesel
TCC Eastern - 29	Truck, Flatbed, 10T, Hwy	Crane, Two Excavators, to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel
TCC Eastern - 29	Truck Flatbed 4 T Highway	Materials from Sacramento	135	100.9	0.6	178	1.3	Twin Cities Complex to/from Sacramento	17	34	Diesel
Vehicle Use on Unimproved DIRT Surface (no access roads at work and ride beds) — on the Construction Site											
TCC Eastern - 1	Articulated Rear Dump 22 CY/CAT 730	Dumpeer to move fill on-site	90	1093.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	5466		Diesel or Hybrid
TCC Eastern - 2	Cat 30mpg w/Cat 770, 511HP	Dumpers	29	116.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	582		Diesel
TCC Eastern - 3	Truck, End Dump, 10-13cy, Hwy	Dumpers	34	174.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	873		Diesel
TCC Eastern - 6	Water Tanker	Off-Highway Truck	24	240.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1200		Diesel
TCC Eastern - 7	Truck, End Dump, 10-13cy, Hwy	Dumpers for Fill from Twin Cities Complex Borrow	149	4821.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	24105		Diesel
TCC Eastern - 8	Concrete Pump Truck	Off-Highway Truck	65	560.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2800		Diesel
TCC Eastern - 9	CAT 730 Rear Dump	Dumpeer	57	155	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	775		Diesel or Hybrid
TCC Eastern - 10	CAT 730 Rear Dump	Dumpeer	81	579	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2896		Diesel or Hybrid
TCC Eastern - 10	Articulated Rear Dump 22 CY/CAT 730	Dumpeer	81	508.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2540		Diesel or Hybrid
TCC Eastern - 10	Concrete Pump Truck	Off-Highway Truck	81	5083.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	25419		Diesel
TCC Eastern - 11	CAT 730 Rear Dump	Dumpeer	17	155	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	775		Diesel or Hybrid
TCC Eastern - 12	CAT 730 Rear Dump	Dumpeer	92	579	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2896		Diesel or Hybrid
TCC Eastern - 12	Articulated Rear Dump 22 CY/CAT 730	Dumpeer	92	508.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2540		Diesel or Hybrid
TCC Eastern - 13	CAT 730 Rear Dump	Dumpeer	65	3440	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	17199		Diesel or Hybrid
TCC Eastern - 16	CAT 730 Rear Dump	Dumpeer	65	3440	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	17199		Diesel or Hybrid
TCC Eastern - 17	Concrete Pump Truck	Off-Highway Truck	43	394.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1974		Diesel
TCC Eastern - 29	Truck, End Dump, 10-13cy, Hwy	Dumpeer	135	8780.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	43900		Diesel

Employees Required to Twin Cities Complex - Eastern Tunnel Shaft
Options 2A, 2B

Code	Employee Type	Hours	# Work Hours/Day	Trip Location (to/from)	Commute Miles/ One-way Trip/Day
TCC-Eastern - 1	Carpenter Apprentice	298.66	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Carpenter Foreman	298.66	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Carpenter Journeyman	597.34	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Electrical Foreman	149.34	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Electrician Journeyman	597.34	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Iron Worker Journeyman Rebar/Struct	597.34	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Laborer G2 General	597.34	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Operator G3a Cranes 45 t and under	298.66	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Teamster G3 Boom Truck	149.34	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Operator G4 Dozer & Push Cat	364.43	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Operator G2 Excavator 3.5 to 7.0 cy	182.21	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	OPERATING ENGINEER FOREMAN	91.11	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Teamster G3 ED 8-24cy, Water>7mgal	1093.28	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Bullgang Foreman	400	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Bullgang Laborer	800	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Mechanic / Welder	400	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Hyd Crane Operator	800	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Flat Truck Driver	400	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-1					
TCC-Eastern - 2	Laborer G2 General	27.94	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 2	Operator G5 Compactor w-blade	232.83	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 2	Operator G4 Dozer & Push Cat	232.83	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 2	OPERATING ENGINEER FOREMAN	232.83	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 2	Operator G2 Finish Blade	116.41	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 2	Teamster G3 ED 8-24cy, Water>7mgal	116.41	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-2					
TCC-Eastern - 3	Laborer G1 Pipe layers	349.25	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 3	Laborer G1 Power Tamper	174.63	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 3	Operator G3 BH-Loader>3/4cy	87.31	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 3	Teamster G2 Hwy ED 6-8cy, Water<7mgal	174.63	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-3					
TCC-Eastern - 4	Project Manager	19200	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Safety Manager	19200	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	QC Manager	19200	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Environmental Manager	18515	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Project Engineer	19200	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Cost Engineer	19200	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Field Engineer	14400	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Safety Engineer	37027	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Schedule Engineer	9600	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Shift Engineers	37027	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	QC Technician	9600	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Survey Party Chief	19200	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Survey Rod Man	19200	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Tunnel Superintendent	18515	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Tunnel Walkers	18515	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Equipment Superintendent	18515	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Electrical Superintendent	18515	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	General Superintendent	19200	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Concrete Superintendent	19200	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Purchasing Agent	19200	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Runner	19200	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Payroll Clerk	19200	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Office Administrator	19200	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Accountant	19200	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-4					
TCC-Eastern - 5	General Foreman	495	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 5	Dozer Operator	990	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 5	Grader Operator	990	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 5	Operator G4 Grade Check	495	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 5	Scraper Operator	1980	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-5					
TCC-Eastern - 6	General Foreman	2282.73	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 6	Dozer Operator	4325.45	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 6	Grader Operator	4325.45	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 6	Operator G4 Grade Check	2042.73	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 6	Scraper Operator	8170.91	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 6	Grade Setter / Checker	240	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 6	Loader Operator	240	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 6	General Laborer	480	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 6	Flagger	480	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 6	Compactor Operator	480	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-6					
TCC-Eastern - 7	Grade Setter / Checker	1643.81	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 7	Compactor Operator	1643.81	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 7	Dozer Operator	1643.81	10	Sacramento to/from Twin Cities Complex	17

TCC-Eastern - 7	Grader Operator	1643.81	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 7	Truck Driver	1643.81	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-7					
TCC-Eastern - 8	Hyd Crane Operator	453.22	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 8	General Laborer	809.44	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 8	Carpenter	1424.88	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 8	Carpenter Foreman	216.22	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 8	Iron Worker Foreman	377	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 8	Iron Worker	3770	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 8	Truck Driver	560	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-8					
TCC-Eastern - 9	Shifter	9.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 9	Lead Miner	9.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 9	Miner	9.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 9	Loader Operator	9.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 9	Excavator Operator	9.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 9	Truck Driver	152.93	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 9	Carpenter	684	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 9	Carpenter Foreman	171	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 9	General Laborer	16	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-9					
TCC-Eastern - 10	General Laborer	6788.76	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	General Foreman	1396	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Mechanic Welder	1016	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Shaft Crane Operator	1016	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Crane Oiler	1016	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Truck Driver	579.12	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Hyd Crane Operator	1016	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Loader Operator	888	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Slurry Wall Consultant	508	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Shifter	1524	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Lead Miner	508	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Miner	4064	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Carpenter	84.92	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Carpenter Foreman	21.23	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Iron Worker Foreman	1034.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Iron Worker	5153.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Excavator Operator	380	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-10					
TCC-Eastern - 11	Truck Driver	152.93	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 11	Loader Operator	9.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 11	Shifter	9.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 11	Lead Miner	9.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 11	Miner	9.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 11	Excavator Operator	9.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 11	Carpenter	652	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 11	Carpenter Foreman	163	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-9					
TCC-Eastern - 12	Mechanic / Welder	1016	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Hyd Crane Operator	1016	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Loader Operator	888	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	General Laborer	6804.93	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	General Foreman	1396	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Carpenter	117.26	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Carpenter Foreman	29.32	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Truck Driver	579.12	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Shifter	1016	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Lead Miner	508	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Miner	4064	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Iron Worker Foreman	1034.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Iron Worker	5153.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Excavator Operator	380	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Shaft Crane Operator	1016	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Crane Oiler	1016	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-12					
TCC-Eastern - 13	Shaft Crane Operator	688	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 13	Toplander	688	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 13	Crane Oiler	688	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 13	Diver Contractor	40	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-13					
TCC-Eastern - 14	Project Manager	12640	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Office Manager	12640	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Safety Manager	12640	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	QC Manager	12640	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Geotechnical Manager	12188.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Environmental Manager	12188.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Project Engineer	12640	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Cost Engineer	12640	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Field Engineer	9480	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Safety Engineer	24377.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Schedule Engineer	6320	10	Sacramento to/from Twin Cities Complex	17

TCC-Eastern - 14	Shift Engineers	24377.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	QC Technician	6320	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Survey Party Chief	12640	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Survey Rod Man	12640	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Tunnel Superintendent	12188.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Tunnel Walkers	24377.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Equipment Superintendent	12188.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Electrical Superintendent	12188.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	General Superintendent	12640	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Concrete Superintendent	12640	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Purchasing Agent	12640	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Runner	12640	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Payroll Clerk	12640	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Office Administrator	12640	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Accountant	12640	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-14					
TCC-Eastern - 15	Bullgang Foreman	560	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 15	Bullgang Laborer	1760	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 15	Mechanic / Welder	560	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 15	Hyd Crane Operator	960	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 15	Flat Truck Driver	400	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 15	Master Mechanic	480	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 15	Shaft Crane Operator	160	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 15	Crane Oiler	160	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 15	Diver Contractor	40	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 15	Electrician	160	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-15					
TCC-Eastern - 16	Shaft Crane Operator	688	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 16	Toplander	688	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 16	Crane Oiler	688	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-16					
TCC-Eastern - 17	Shifter	725.32	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 17	Lead Miner	99.32	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 17	Miner	2046.6	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 17	Shaft Crane Operator	466	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 17	Toplander	1106	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 17	Bottomlander	466	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 17	Iron Worker Foreman	626	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 17	Iron Worker	4448	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 17	Hyd Crane Operator	557.3	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 17	Diver Contractor	18.28	24	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-17					
TCC-Eastern - 18	Shifter	200	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 18	Lead Miner	200	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 18	Miner	1600	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 18	Hyd Crane Operator	200	24	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-18					
TCC-Eastern - 19	Shifter	184.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 19	Lead Miner	42.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 19	Miner	553.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 19	Mechanic / Welder	42.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 19	Shaft Crane Operator	184.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 19	Toplander	184.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 19	Crane Oiler	184.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 19	Electrician	42.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 19	Iron Worker	1136	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 19	Iron Worker Foreman	142	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-19					
TCC-Eastern - 20	Shaft Crane Operator	544.44	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 20	Toplander	544.44	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 20	Bottomlander	544.44	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 20	Crane Oiler	544.44	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 20	Iron Worker	4355.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 20	Iron Worker Foreman	544.44	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-20					
TCC-Eastern - 21	Shifter	1306.32	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Lead Miner	1306.32	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Miner	7301.52	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Master Mechanic	120	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Mechanic / Welder	1225.16	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Shaft Crane Operator	1426.32	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Toplander	1426.32	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Bottomlander	936.72	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Crane Oiler	1322.32	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Electrician	436.36	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Hyd Crane Operator	160	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Truck Driver	19095	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Concrete Pump Operator	441.16	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-21					
TCC-Eastern - 22	Bullgang Foreman	160	10	Sacramento to/from Twin Cities Complex	17

TCC-Eastern - 22	Bullgang Laborer	960	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 22	Mechanic / Welder	160	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 22	Master Mechanic	480	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 22	Shaft Crane Operator	160	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 22	Crane Oiler	160	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 22	Electrician	160	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 22	Hyd Crane Operator	160	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-22					
TCC-Eastern - 23	Shifter	2550	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Lead Miner	2550	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Miner	46236	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Segment Carrier Operator	2400	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Mechanic / Welder	5924	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Shaft Crane Operator	1150	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Toplander	1150	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Bottomlander	1150	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Crane Oiler	1150	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Electrician	3650	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Hyd Crane Operator	5448	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Flat Truck Driver	2274	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	TBM Operator	2800	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Bullgang Foreman	2274	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Bullgang Laborer	4548	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Conveyor Belt Man	1000	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-23					
TCC-Eastern - 24	Bottomlander	58362	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Bullgang Foreman	49804.7	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Bullgang Laborer	166527.7	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Conveyor Belt Man or Sub	35794.5	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Crane Oiler	58362	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Dozer Operator	32291	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Electrician	68484.5	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Flat Truck Driver	82494.8	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Hyd Crane Operator	32691.2	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Lead Miner	35794.5	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Loader Operator	32291	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Master Mechanic	16345	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Mechanic / Welder	101175.1	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Miner	247456.7	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Operating Engineer	32291	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Operator G2 Plant Operator	32291	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Segment Carrier Operator	254324.2	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Shaft Crane Operator	58362	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Shifter	35794.5	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	TBM Operator	71588.9	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Toplander	58362	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Utility Truck Operator	33459.1	20	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-24					
TCC-Eastern - 25	Shifter	2550	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	Lead Miner	2550	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	Miner	17100	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	Segment Carrier Operator	4800	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	Mechanic / Welder	3650	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	Shaft Crane Operator	1150	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	Toplander	1150	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	Bottomlander	1150	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	Crane Oiler	1150	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	Electrician	3650	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	Hyd Crane Operator	900	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	Conveyor Belt Man or Sub	1000	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	Truck Driver	10620	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	TBM Operator	2800	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-25					
TCC-Eastern - 26	Shifter	21412	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Lead Miner	21412	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Miner	165776	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Segment Carrier Operator	161152	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Mechanic / Welder	63570.78	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Shaft Crane Operator	37464	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Toplander	37464	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Bottomlander	37464	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Crane Oiler	37464	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Electrician	42492	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Hyd Crane Operator	21077.56	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Conveyor Belt Man or Sub	42092	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Dozer Operator	20680	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Flat Truck Driver	10538.78	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Master Mechanic	10540	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Man Transport Truck Operator	21495.38	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Operating Engineer	20680	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Operator G2 Plant Operator	20680	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Utility Truck Operator	21495.38	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	TBM Operator	42824	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Bullgang Foreman	32034.16	20	Sacramento to/from Twin Cities Complex	17

TCC-Eastern - 26	Bullgang Laborer	107059.1	20	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-26					
TCC-Eastern - 27	Shifter	1405	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Lead Miner	1405	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Miner	6700	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Forklift Operator	690	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Mechanic / Welder	2300	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Shaft Crane Operator	1505	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Toplander	1405	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Bottomlander	1405	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Crane Oiler	815	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Electrician	2220	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Hyd Crane Operator	975	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Flat Truck Driver	80	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Master Mechanic	300	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Utility Truck Operator	540	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Bullgang Foreman	180	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Bullgang Laborer	760	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-27					
TCC-Eastern - 28	Shifter	1605	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Lead Miner	1605	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Miner	7900	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Forklift Operator	890	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Mechanic / Welder	2420	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Shaft Crane Operator	1705	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Toplander	1605	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Bottomlander	1605	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Crane Oiler	815	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Electrician	2420	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Hyd Crane Operator	815	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Master Mechanic	300	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Utility Truck Operator	740	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Bullgang Foreman	100	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Bullgang Laborer	600	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-28					
TCC-Eastern - 29	Excavator Operator	207.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Laborer G2 Concrete Laborer	1050	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Laborer G2 General	270	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Laborer G3 Dumpman	300	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Laborer G3 Flagman	760	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Shaft Crane Operator	207.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Toplander	207.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Bottomlander	207.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Crane Oiler	207.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Operator G2 Excavator 3.5 to 7.0 cy	2450	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Operator G2 Finish Blade	700	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Operator G3 Loader >4cy	800	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Operator G4 Dozer & Push Cat	3710	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Operator G4 Scraper	2150	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Operator G5 Compactor w-blade	500	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Operator G6 Tractor	810	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Operating Engineer Foreman	1035	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Teamster G2 Hwy ED 6-8cy, Water<7mgal	9525	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Teamster G4 ED 25-65 Cy	700	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-29					

Marine Inventory for Twin Cities Complex - Eastern Tunnel Shaft
Options 2A, 2B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Twin Cities Complex - Eastern Tunnel Shaft
Options 2A, 2B

Code	# day	Locomotive Type	From Depot Site	Delivery Depot	Rail Cars	Rail Cars/Day	Main Railroad	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
TCC-Eastern - 23	105	Pre Cast Segment 36' ID x 6' Wide	Sacramento	Twin Cities Complex Sidetrack	230	2.19	UPRR						
TCC-Eastern - 24	2064	Pre Cast Segment 36' ID x 6' Wide	Sacramento	Twin Cities Complex Sidetrack	7644	3.70	UPRR						
TCC-Eastern - 25	120	Pre Cast Segment 36' ID x 6' Wide	Sacramento	Twin Cities Complex Sidetrack	58	0.48	UPRR						
TCC-Eastern - 26	1297	Pre Cast Segment 36' ID x 6' Wide	Sacramento	Twin Cities Complex Sidetrack	4800	3.70	UPRR						

Rail Activity for RTM to Southern Complex presented in Southern Complex workbooks

**Helicopter Inventory for Twin Cities Complex - Eastern Tunnel Shaft
Options 2A, 2B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Twin Cities Complex - Eastern Tunnel Shaft
Options 2A, 2B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
TCC-Eastern - 1	507	90	5.6	41909	466						
TCC-Eastern - 2		29									
TCC-Eastern - 5		44		249472	5670	55878	1927				
TCC-Eastern - 6		24		1029535	42897						
TCC-Eastern - 7		149				72310	485				
TCC-Eastern - 8		65									
TCC-Eastern - 9		57		635	11						
TCC-Eastern - 10		81		12708	157						
TCC-Eastern - 11		17		635	37						
TCC-Eastern - 12		92		12708	138						
TCC-Eastern - 13		65		75675	1164						
TCC-Eastern - 16		65		75675	1164						
TCC-Eastern - 17		43									
TCC-Eastern - 19		20									
TCC-Eastern - 21		93									
TCC-Eastern - 24 - RTM		2064		3554725	1722						
TCC-Eastern - 25		120									
TCC-Eastern - 26 - RTM		1297		1977624	1525						
TCC-Eastern - 26	395	1297	2.9								
TCC-Eastern - 29		135									

**Demolition Assumptions for Twin Cities Complex - Eastern Tunnel Shaft
Options 2A, 2B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for New Hope Tract - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	NH-E Access -1	3/17/2026	3/18/2026	2	2	10
Embankment	NH-E Access -2	3/19/2026	3/20/2026	2	2	10
Culvert Pipe	NH-E Access -3	3/23/2026	3/23/2026	1	1	10
Subdrain System	NH-E Access -4	3/24/2026	3/25/2026	2	2	10
Road Base	NH-E Access -5	3/26/2026	3/27/2026	2	2	10
12-month - Intermediate Maintenance	NH-E Access -6	4/4/2028	4/13/2028	8	5	10
12-month - Final Maintenance	NH-E Access -7	4/4/2029	4/13/2029	8	5	10
Acres		0.84				

Offroad Equipment (Fossil Fuel) Inventory for New Hope Tract - Eastern
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
NH-E Access -1	CAT D6LGPDozer w winch	Crawler Tractor	38.1	2	19	Diesel Tier 4 or Hybrid Dies	179	0.43		
NH-E Access -1	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	19.05	2	10	Diesel	384	0.38		
NH-E Access -2	CAT D6LGPDozer w winch	Crawler Tractor	13.34	2	7	Diesel Tier 4 or Hybrid Dies	179	0.43		
NH-E Access -2	Disk, Towed	Off-Highway Tractor	13.34	2	7	Diesel	140	0.44		
NH-E Access -2	CAT 14 M	Grader	6.67	2	3	Diesel	274	0.41		
NH-E Access -2	Water Pump, 4" Diesel	Pumps	1.6	2	1	Diesel	10	0.74		
NH-E Access -2	CAT 815, Roller	Roller	13.34	2	7	Diesel	170	0.38		
NH-E Access -3	Air Compressor 375 cfm	Air Compressor	1.56	1	2	Diesel Tier 4	122	0.48		
NH-E Access -3	CAT LOADER/HOE 416 E	Rubber Tired Loader	3.11	1	3	Diesel	78	0.36		
NH-E Access -3	Compactor, Plate, 22" w x 35"	Plate Compactor	1.56	1	2	Diesel	8.5	0.43		
NH-E Access -4	CAT LOADER/HOE 416 E	Rubber Tired Loader	4.69	2	2	Diesel	78	0.36		
NH-E Access -4	Compactor, Trench Roller, Vib 32"w	Roller	9.38	2	5	Diesel	20	0.38		
NH-E Access -5	CAT 14 M	Grader	11.11	2	6	Diesel	274	0.41		
NH-E Access -5	Water Pump, 4" Diesel	Pumps	11.11	2	6	Diesel	10	0.74		
NH-E Access -5	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	11.11	2	6	Diesel	156	0.38		
NH-E Access -6	CAT 14 M	Grader	26.67	8	3	Diesel	78	0.36		
NH-E Access -6	Water Pump, 4" Diesel	Pumps	26.67	8	3	Diesel or Hybrid	224	0.42		
NH-E Access -7	CAT 14 M	Grader	26.67	8	3	Diesel or Hybrid	137	0.38		
NH-E Access -7	Water Pump, 4" Diesel	Pumps	26.67	8	3	Diesel or Hybrid	133	0.38		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for New Hope Tract - Eastern
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
NH-E Access -2	Light Plant, 4 lite, 1000w	931.3			

Vehicle Inventory for New Hope Tract - Eastern
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint v.s. offsite)	# day	Vehicle Hours	Hours/Trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/100mi) (if known)	Fuel (gal/Day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site													
NH-E Access -1	Pickup, 1/2T, 2wd	Materials from Sacramento	2	10	0.6	15	8	New Hope Shaft to/from Sacramento	19	38	Hybrid Gasoline		
NH-E Access -1	Truck, Water, 4 mgal, 1wey	Water from Lodi	2	4	0.6	7	4	New Hope Shaft to/from Lodi	17	34	Diesel		
NH-E Access -1	Truck, Flatbed, 10T, 1wey	Crawler Tractor from Sacramento	1	1	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel		
NH-E Access -1	Truck, Flatbed, 10T, 1wey	Excavator to and from Sacramento	2	1	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel		
NH-E Access -2	Pickup, 1/2T, 2wd	Materials from Sacramento	2	13	0.6	21	11	New Hope Shaft to/from Sacramento	19	38	Hybrid Gasoline		
NH-E Access -2	Truck, Flatbed, 10T, 1wey	Crawler Tractor to Sacramento	1	1	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel		
NH-E Access -2	Truck, Flatbed, 10T, 1wey	Grader from Sacramento	1	1	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel		
NH-E Access -2	Truck, Flatbed, 10T, 1wey	Tractor & Roller to and from Sacramento	2	3	0.6	4	2.0	New Hope Shaft to/from Sacramento	19	38	Diesel		
NH-E Access -2	Truck, End Dump, 16-20cy, 1wey	Gravel from Sacramento	2	35	0.6	56	28	New Hope Shaft to/from Sacramento	19	38	Diesel		
NH-E Access -3	Truck, Flatbed, 10T, 1wey	Materials from Sacramento	1	2	0.6	2	2	New Hope Shaft to/from Sacramento	19	38	Diesel		
NH-E Access -3	Truck, Flatbed, 10T, 1wey	Loader from Sacramento	1	1	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel		
NH-E Access -3	Truck, Flatbed, 10T, 1wey	Plate Compactor to and from Sacramento	2	1	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel		
NH-E Access -3	Truck, End Dump, 16-20cy, 1wey	Gravel from Sacramento	1	1	0.6	1	1	New Hope Shaft to/from Sacramento	19	38	Diesel		
NH-E Access -4	Truck, End Dump, 10-13cy, 1wey	Materials from Sacramento	2	10	0.6	16	8	New Hope Shaft to/from Sacramento	19	38	Diesel		
NH-E Access -4	Truck, Flatbed, 10T, 1wey	Roller to Sacramento	1	1	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel		
NH-E Access -4	Truck, End Dump, 16-20cy, 1wey	Gravel from Sacramento	2	1	0.6	2	1	New Hope Shaft to/from Sacramento	19	38	Diesel		
NH-E Access -5	Pickup, 3/4T, 4wd	Materials from Sacramento	2	11	0.6	18	9	New Hope Shaft to/from Sacramento	19	38	Hybrid Gasoline		
NH-E Access -5	Truck, Water, 4 mgal, 1wey	Water from Lodi	2	11	0.6	20	10	New Hope Shaft to/from Lodi	17	34	Diesel		
NH-E Access -5	Truck, End Dump, 16-20cy, 1wey	Base Rock from Sacramento	2	77	0.6	122	61	New Hope Shaft to/from Sacramento	19	38	Diesel		
NH-E Access -5	Truck, Flatbed, 10T, 1wey	Grader to Sacramento	1	1	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel		
NH-E Access -5	Truck, Flatbed, 10T, 1wey	Roller to and from Sacramento	2	1	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel		
NH-E Access -6	Pickup, 3/4T, 4wd	Materials from Sacramento	8	3	0.6	4	1	New Hope Shaft to/from Sacramento	19	38	Hybrid Gasoline		
NH-E Access -6	Truck, Flatbed, 10T, 1wey	Grader to and from Sacramento	2	1	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel		
NH-E Access -6	Truck, End Dump, 16-20cy, 1wey	Base Rock from Sacramento	8	77	0.6	122	15	New Hope Shaft to/from Sacramento	19	38	Diesel		
NH-E Access -7	Truck, Flatbed, 10T, 1wey	Grader to and from Sacramento	2	1	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel		
NH-E Access -7	Pickup, 3/4T, 4wd	Materials from Sacramento	8	3	0.6	4	1	New Hope Shaft to/from Sacramento	19	38	Hybrid Gasoline		
NH-E Access -7	Truck, End Dump, 16-20cy, 1wey	Base Rock from Sacramento	8	77	0.6	122	15	New Hope Shaft to/from Sacramento	19	38	Diesel		
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site													
NH-E Access -1	CAT 730 30T, Articulated End Dump	Dummers	2	95.25	not applicable	not applicable	not applicable	on site, assume 5 miles/hour		476	Diesel Tier 4 or Hybrid Diesel		

**Employees Required to New Hope Tract - Eastern
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B**

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip
NH-E Access -1	Operator G4 Dozer & Push Cat	38.1	10		Sacramento to/from New Hope Shaft	19
NH-E Access -1	Operator G2 Excavator 3.5 to 7.0	19.05	10		Sacramento to/from New Hope Shaft	19
NH-E Access -1	OPERATING ENGINEER FOREMAN	9.53	10		Sacramento to/from New Hope Shaft	19
NH-E Access -1	Teamster G3 ED 8-24cy, Water>7	95.25	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-E Access-1						
NH-E Access -2	Laborer G2 General	1.6	10		Sacramento to/from New Hope Shaft	19
NH-E Access -2	Operator G5 Compactor w-blade	13.34	10		Sacramento to/from New Hope Shaft	19
NH-E Access -2	Operator G4 Dozer & Push Cat	13.34	10		Sacramento to/from New Hope Shaft	19
NH-E Access -2	OPERATING ENGINEER FOREMAN	13.34	10		Sacramento to/from New Hope Shaft	19
NH-E Access -2	Operator G2 Finish Blade	6.67	10		Sacramento to/from New Hope Shaft	19
NH-E Access -2	Teamster G2 Hwy ED 6-8cy, Water<7	6.67	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-E Access-2						
NH-E Access -3	Laborer G1 Pipe layers	6.22	10		Sacramento to/from New Hope Shaft	19
NH-E Access -3	Laborer Foreman	1.56	10		Sacramento to/from New Hope Shaft	19
NH-E Access -3	Operator G3 BH-Loader>3/4cy	3.11	10		Sacramento to/from New Hope Shaft	19
NH-E Access -3	Teamster G1 Hwy ED<6cy, Flatbed	2.33	10		Sacramento to/from New Hope Shaft	19
NH-E Access -3	Teamster G2 Hwy ED 6-8cy, Water<7	0.78	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-E Access-3						
NH-E Access -4	Laborer G1 Pipe layers	18.75	10		Sacramento to/from New Hope Shaft	19
NH-E Access -4	Laborer G1 Power Tamper	9.38	10		Sacramento to/from New Hope Shaft	19
NH-E Access -4	Operator G4 Loader <4.1cy	4.69	10		Sacramento to/from New Hope Shaft	19
NH-E Access -4	Teamster G2 Hwy ED 6-8cy, Water<7	9.38	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-E Access-4						
NH-E Access -5	Laborer G3 Flagman	22.22	10		Sacramento to/from New Hope Shaft	19
NH-E Access -5	Operator G7 Roller, Compactor	11.11	10		Sacramento to/from New Hope Shaft	19
NH-E Access -5	OPERATING ENGINEER FOREMAN	11.11	10		Sacramento to/from New Hope Shaft	19
NH-E Access -5	Operator G4 Grade Check	11.11	10		Sacramento to/from New Hope Shaft	19
NH-E Access -5	Operator G2 Finish Blade	11.11	10		Sacramento to/from New Hope Shaft	19
NH-E Access -5	Operator G8 Generator	2.22	10		Sacramento to/from New Hope Shaft	19
NH-E Access -5	Teamster G2 Hwy ED 6-8cy, Water<7	11.11	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-E Access-5						
NH-E Access -6	OPERATING ENGINEER FOREMAN	2.665	10		Sacramento to/from New Hope Shaft	19
NH-E Access -6	Operator G2 Finish Blade	26.67	10		Sacramento to/from New Hope Shaft	19
NH-E Access -6	Operator G8 Generator	5.335	10		Sacramento to/from New Hope Shaft	19
NH-E Access -6	Teamster G2 Hwy ED 6-8cy, Water<7	26.67	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-E Access-6						
NH-E Access -7	OPERATING ENGINEER FOREMAN	2.665	10		Sacramento to/from New Hope Shaft	19
NH-E Access -7	Operator G2 Finish Blade	26.67	10		Sacramento to/from New Hope Shaft	19
NH-E Access -7	Operator G8 Generator	5.335	10		Sacramento to/from New Hope Shaft	19
NH-E Access -7	Teamster G2 Hwy ED 6-8cy, Water<7	26.67	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-E Access-7						

Marine Inventory for New Hope Tract - Eastern
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for New Hope Tract - Eastern
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

Helicopter Inventory for New Hope Tract - Eastern
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for New Hope Tract - Eastern
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
NH-E Access -1	0.84	2	0.4	2667	1334						
NH-E Access -2		2				2667	1334				
NH-E Access -5		2				1333	667				
NH-E Access -6		8				1334	167				
NH-E Access -7		8				1334	167				

**Demolition Assumptions for New Hope Tract - Eastern
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

**Construction Schedule for New Hope - Eastern Tunnel Shaft
Options 2A, 2B**

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Clear and Grub	NH-Eastern - 1	4/4/2028	4/5/2028	1	1	10
Ground Improvement	NH-Eastern - 2	4/6/2028	6/14/2028	50	5	10
Raise Shaft Pad	NH-Eastern - 3	6/15/2028	10/18/2028	90	5	10
Excavate, Set Strips, & Place Guide Wall	NH-Eastern - 4	10/19/2028	11/3/2028	12	5	10
Place Guide Walls Concrete	NH-Eastern - 5	11/6/2028	11/7/2028	1	1	10
Excavate Slurry Wall & Place Concrete & Rebar	NH-Eastern - 6	11/8/2028	12/15/2028	38	7	24
Slurry Wall including Strip Forms and Place Rebar & Top Beam	NH-Eastern - 7	12/18/2028	1/23/2029	37	7	24
Excavate Shaft	NH-Eastern - 8	1/30/2029	3/13/2029	43	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	NH-Eastern - 9	3/14/2029	3/27/2029	13	7	24
Dewater Shaft	NH-Eastern - 10	3/28/2029	4/3/2029	7	7	24
Place TBM Cradle Rebar and Cradle Pour	NH-Eastern - 11	4/4/2029	4/11/2029	6	5	10
Breakout Slurry Wall for TBM	NH-Eastern - 12	4/12/2029	5/8/2029	19	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	NH-Eastern - 13	4/12/2029	8/1/2029	80	5	10
Place Shaft Cover	NH-Eastern - 14	8/1/2029	8/7/2029	5	5	10
Total Site Acres		10.7				

Offroad Equipment (Fossil Fuel) Inventory for New Hope - Eastern Tunnel Shaft
Options 2A, 2B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
NH-Eastern - 1	CAT D8 Dozer	Crawler Tractor	15.52	1	16	Diesel Tier 4 or Hybrid Dese	179	0.43		
NH-Eastern - 1	CAT Grader 16H - 16' Blade	Grader	15.52	1	16	Diesel	285	0.41		
NH-Eastern - 1	623G Scraper Elevate 21 CY	Scaper	31.04	1	31	Diesel	359	0.48		
NH-Eastern - 2	Air Compressor 375 CFM	Air Compressor	350	7	17	Diesel Tier 4	122	0.48		
NH-Eastern - 2	Grove RT Crane 30T	Crane	350	7	17	Diesel	160	0.29		
NH-Eastern - 2	DMM Deep Soil Mixer	Bore Drill Rig	350	7	17	Diesel	808	0.5		
NH-Eastern - 2	DMM Grout Mix Plant	Other Industrial Equipmen	350	7	17	Diesel	500	0.34		
NH-Eastern - 2	Case 590 SupN Loader	Rubber Tired Loaders	350	50	17	Diesel	110	0.36		
NH-Eastern - 3	CAT CB-634D Vibratory 84"	Rollers	723.58	90	8	Diesel	145	0.38		
NH-Eastern - 3	CAT Grader 16H	Graders	723.58	90	8	Diesel	285	0.41		
NH-Eastern - 3	CAT D8 Dozer	Crawler Tractor	723.58	90	8	Diesel	328	0.43		
NH-Eastern - 4	CAT Hyd Excavator 1CY	Excavator	6	12	1	Diesel	138	0.38		
NH-Eastern - 4	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	6	12	1	Diesel or Hybrid	130	0.36		
NH-Eastern - 6	1600 CFM Compressor Diesel	Air Compressor	216	38	6	Diesel Tier 4	540	0.48		
NH-Eastern - 6	Hydraulic 55 Ton Crane	Crane	463	38	12	Diesel	350	0.29		
NH-Eastern - 6	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	216	38	6	Diesel or Hybrid	130	0.36		
NH-Eastern - 6	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	216	38	6	Diesel	8	0.56		
NH-Eastern - 6	Manitowoc 777 200 Ton Crane	Crane	463	38	12	Diesel	760	0.29		
NH-Eastern - 7	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	235.5	37	6	Diesel or Hybrid	130	0.36		
NH-Eastern - 7	250 CFM Compressor Diesel	Air Compressor	3.3	37	0.1	Diesel Tier 3	75	0.48		
NH-Eastern - 7	CAT Hyd Excavator 1CY	Excavator	471	37	13	Diesel	138	0.38		
NH-Eastern - 8	Manitowoc 777 200 Ton Crane	Crane	231	43	5	Diesel	760	0.29		
NH-Eastern - 9	Manitowoc 777 200 Ton Crane	Crane	111	13	9	Diesel	760	0.29		
NH-Eastern - 9	Hydraulic 40 Ton Crane	Crane	36	13	3	Diesel	300	0.29		
NH-Eastern - 9	Hydraulic 25 Ton Crane	Crane	76.47	13	6	Diesel	100	0.29		
NH-Eastern - 10	Hydraulic 15 Ton Crane	Crane	100	7	14	Diesel	100	0.29		
NH-Eastern - 11	Manitowoc 777 200 Ton Crane	Crane	35.2	6	6	Diesel	760	0.29		
NH-Eastern - 11	250 CFM Compressor Diesel	Air Compressor	8.2	6	1	Diesel Tier 3	75	0.48		
NH-Eastern - 12	250 CFM Compressor Diesel	Air Compressor	118.67	19	6	Diesel Tier 3	75	0.48		
NH-Eastern - 12	Manitowoc 777 200 Ton Crane	Crane	118.67	19	6	Diesel	760	0.29		
NH-Eastern - 13	Hydraulic 9 Ton Crane	Crane	264.8	80	3	Diesel	85	0.29		
NH-Eastern - 13	250 CFM Compressor Diesel	Air Compressor	699.99	80	9	Diesel Tier 3	75	0.48		
NH-Eastern - 13	Manitowoc 777 200 Ton Crane Manitowoc	Crane	102	80	1	Diesel	760	0.29		
NH-Eastern - 13	999-275 Ton Crane	Crane	128.33	80	2	Diesel	900	0.29		
NH-Eastern - 14	Hydraulic 9 Ton Crane	Crane	40	10	2	Diesel	85	0.29		
NH-Eastern - 14	Hydraulic 40 Ton Crane	Crane	40	10	2	Diesel	300	0.29		
NH-Eastern - 14	CAT Forklift 5,500 LB	Aerial Lift	40	10	2	Diesel	63	0.31		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for New Hope - Eastern Tunnel Shaft
Options 2A, 2B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
NH-Eastern-2	90 kW Generator	830	50		
NH-Eastern-2	Water Pump 4"	830	50		
NH-Eastern-6	Slurry Wall Techniwell	216	38		
NH-Eastern-10	Water Pump 6"	400	7		
NH-Eastern-10	150 kW Generator	100	7		
NH-Eastern-11	Conc Pump 100 cy/hr	8.2	6		
NH-Eastern-13	Conc Pump 100 cy/hr	321.6	80		

Vehicle Inventory for New Hope - Eastern Tunnel Shaft
Options 2A, 2B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
NH-Eastern - 1	Truck, Flatbed, 10T, Hwy	Grader and Scraper to and from Sacramento	2	2.5	0.6	4	2.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 1	Truck, Flatbed, 10T, Hwy	Crawler Tractor from Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 1	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	1	38.6	0.6	61	61.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 2	Pickup 1/2T 2 WD	Materials from Sacramento	50	830.0	0.6	1311	26	New Hope Shaft to/from Sacramento	19	38	Hybrid Gasoline	
NH-Eastern - 2	Truck Flatbed 4 T Highway	Materials from Sacramento	50	830.0	0.6	1311	26	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 2	Mechanic Truck	Materials from Sacramento	50	830.0	0.6	1311	26	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 2	Truck, Flatbed, 10T, Hwy	Crane, Trencher, & Other Equipment to and from Sacramento	2	3.8	0.6	6	3.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 2	Concrete Transit Mix Truck 12cy	Concrete for Ground Improvement from Sacramento	50	110.9	0.5	208	4	New Hope Shaft to/from Sacramento	16	32	Diesel	
NH-Eastern - 3	Highway Dump Truck 18 CY	Materials from Sacramento	90	723.6	0.6	1142	13	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 3	Truck End Dump 16-20cy Hwy	Soil Material in Covered Trucks from Twin Cities Complex	90	1062.0	0.5	2124	24	New Hope Shaft to/from Twin Cities Complex	15	30	Diesel	
NH-Eastern - 3	Truck, Flatbed, 10T, Hwy	Grader and Roller to and from Sacramento	2	2.5	0.6	4	2.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 3	Truck, Flatbed, 10T, Hwy	Crawler Tractor to Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 4	Truck, Flatbed, 10T, Hwy	Excavator to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 4	Truck, Flatbed, 10T, Hwy	Loader from Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 5	Truck, Flatbed, 10T, Hwy	Rebar from Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 5	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road Concrete Batch Plant	1	11.5	0.5	23	23	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Eastern - 6	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	38	123.5	0.6	195	5	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 6	Truck Flatbed 4 T Highway	Rebar from Sacramento	38	17.7	0.6	28	1	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 6	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road Concrete Batch Plant	38	285.0	0.5	570	15	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane and Other Equipment to and from Sacramento	2	2.5	0.6	4	2.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane from Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 7	Truck, Flatbed, 10T, Hwy	Loader to Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 7	Truck Flatbed 4 T Highway	Rebar from Sacramento	37	0.6	0.6	1	0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 7	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road Concrete Batch Plant	37	6.0	0.5	12	0	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Eastern - 9	Truck Flatbed 4 T Highway	Rebar from Sacramento	13	4.4	0.6	7	1	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 9	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road Concrete Batch Plant	13	242.0	0.5	484	37	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Eastern - 9	Truck, Flatbed, 10T, Hwy	Cranes to and from Sacramento	2	2.5	0.6	4	2.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 10	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 11	Truck Flatbed 4 T Highway	Rebar from Sacramento	6	0.6	0.6	1	0.2	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 11	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road Concrete Batch Plant	6	17.5	0.5	35	6	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Eastern - 12	Truck Flatbed 4 T Highway	Rebar from Sacramento	19	1.3	0.6	2	0.1	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 13	Truck Flatbed 4 T Highway	Rebar from Sacramento	80	0.6	0.6	1	0.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 13	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road Concrete Batch Plant	80	182.5	0.5	365	5	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 14	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site										Miles On-Site		
NH-Eastern - 4	CAT 730 Rear Dump	Dumper	12	18.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		92	Diesel or Hybrid	
NH-Eastern - 6	CAT 730 Rear Dump	Dumper	38	246.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1231	Diesel or Hybrid	
NH-Eastern - 6	Articulated Rear Dump 22 CY/CAT 730	Dumper	38	246.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1231	Diesel or Hybrid	
NH-Eastern - 6	Concrete Pump Truck	Off Highway Truck	38	432.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2263	Diesel	
NH-Eastern - 8	Trucking Off Highway CAT 730	Dumper	43	1155.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		5775	Diesel	
NH-Eastern - 9	Concrete Pump Truck	Off Highway Truck	13	76.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		380	Diesel	

Employees Required to New Hope - Eastern Tunnel Shaft
Options 2A, 2B

Code	Employee Type	Hours	# WorkDay	# of Employees/Day	# of Employees One-Way Trips/Day	Trip Location (to/from)	Commute Miles/One-way Trip/Day	One-Way Commute Miles/Day	Commute Miles/ Total Trip/Day	Total Commute Miles/Day
NH-Eastern - 1	General Foreman	7.12	10	1		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 1	Dozer Operator	14.24	10	1		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 1	Grader Operator	14.24	10	1		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 1	Operator G4 Grade Check	7.12	10	1		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 1	Scrapper Operator	28.48	10	3		Sacramento to/from New Hope Shaft	19		38	
TOTAL NH-Eastern-1				8	15			292		585
NH-Eastern - 2	Laborer G2 General	1782.66	10	178		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 2	Operator G3a Crane	594.22	10	59		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 2	Operator G3 BH Loader	594.22	10	59		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 2	Operating Engineer	594.22	10	59		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 2	Operator G4 Grade Check	594.22	10	59		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 2	Operator G4 Heavy Duty Mechanic	594.22	10	59		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 2	Operator G2 Plant Operator	1188.44	10	119		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 2	Teamster G1 Hwy	594.22	10	59		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 2	Teamster G2 Hwy	594.22	10	59		Sacramento to/from New Hope Shaft	19		38	
TOTAL NH-Eastern-2				713	1426			27096		54193
NH-Eastern - 3	Grade Setter / Checker	1026.74	10	103		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 3	Water Truck Highway	1026.74	10	103		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 3	Compactor Operator	1026.74	10	103		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 3	Dozer Operator	1026.74	10	103		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 3	Grader Operator	1026.74	10	103		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 3	Truck Driver	1026.74	10	103		Sacramento to/from New Hope Shaft	19		38	
TOTAL NH-Eastern-3				616	1232			23410		46819
NH-Eastern - 4	Shifter	6	10	1		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 4	Lead Miner	6	10	1		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 4	Miner	6	10	1		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 4	Loader Operator	6	10	1		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 4	Excavator Operator	6	10	1		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 4	Truck Driver	17.96	10	2		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 4	Carpenter	426.54	10	43		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 4	Carpenter Foreman	106.64	10	11		Sacramento to/from New Hope Shaft	19		38	
TOTAL NH-Eastern-4				60	120			#REF1		#REF1
NH-Eastern - 5	General Laborer	10.9	10	1		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 5	Carpenter	21.8	10	2		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 5	Carpenter Foreman	5.45	10	1		Sacramento to/from New Hope Shaft	19		38	
TOTAL NH-Eastern-5				4	9			162		325
NH-Eastern - 6	General Laborer	1310	24	164		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 6	General Foreman	262	24	33		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 6	Mechanic Welder	262	24	33		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 6	Shaft Crane Operator	524	24	66		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 6	Crane Oiler	524	24	66		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 6	Truck Driver	298.68	24	37		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 6	Shifter	524	24	66		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 6	Lead Miner	262	24	33		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 6	Miner	2096	24	262		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 6	Shifter	262	24	33		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 6	Hyd Crane Operator	262	24	33		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 6	Iron Worker Foreman	524	24	66		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 6	Iron Worker	2620	24	328		Sacramento to/from New Hope Shaft	19		38	
TOTAL NH-Eastern-6				1216	2433			#REF1		#REF1
NH-Eastern - 7	Hydraulic Excavator to 3.5	235.5	24	29		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 7	Loader Operator	235.5	24	29		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 7	Excavator Operator	235.5	24	29		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 7	Hyd Track Drill	235.5	24	29		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 7	General Laborer	735.9	24	92		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 7	General Foreman	235.5	24	29		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 7	Carpenter	36.8	24	5		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 7	Carpenter Foreman	9.2	24	3		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 7	Iron Worker Foreman	11	24	3		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 7	Iron Worker	44	24	6		Sacramento to/from New Hope Shaft	19		38	
TOTAL NH-Eastern-7				255	511			9700		19401
NH-Eastern - 8	Shaft Crane Operator	231	24	29		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 8	Toplander	231	24	29		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 8	Crane Oiler	231	24	29		Sacramento to/from New Hope Shaft	19		38	
TOTAL NH-Eastern-8				87	173			3292		6584
NH-Eastern - 9	Diver Contractor	77.48	24	10		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 9	Shifter	74.24	24	9		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 9	Lead Miner	38.24	24	5		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 9	Miner	377.9	24	47		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 9	Hyd Crane Operator	188.94	24	24		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 9	Toplander	144	24	18		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 9	Iron Worker Foreman	36	24	5		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 9	Iron Worker	288	24	36		Sacramento to/from New Hope Shaft	19		38	
TOTAL NH-Eastern-9				153	306			5818		11636
NH-Eastern - 10	Shifter	100	24	13		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 10	Lead Miner	100	24	13		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 10	Miner	800	24	100		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 10	Hyd Crane Operator	100	24	13		Sacramento to/from New Hope Shaft	19		38	
TOTAL NH-Eastern-10				138	275			5225		10450
NH-Eastern - 11	Shifter	35.2	10	4		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 11	Miner	119.6	10	12		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 11	Shaft Crane Operator	35.2	10	4		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 11	Toplander	35.2	10	4		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 11	Crane Oiler	35.2	10	4		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 11	Iron Worker	216	10	22		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 11	Iron Worker Foreman	27	10	3		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 11	Lead Miner	8.2	10	1		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 11	Mechanic Welder	8.2	10	1		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 11	Electrician	8.2	10	1		Sacramento to/from New Hope Shaft	19		38	
TOTAL NH-Eastern-11				53	107			2027		4054
NH-Eastern - 12	Shaft Crane Operator	118.67	10	12		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 12	Toplander	118.67	10	12		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 12	Bottomlander	118.67	10	12		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 12	Crane Oiler	118.67	10	12		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 12	Iron Worker	949.36	10	95		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 12	Iron Worker Foreman	118.67	10	12		Sacramento to/from New Hope Shaft	19		38	
TOTAL NH-Eastern-12				154	309			5862		11725
NH-Eastern - 13	Shifter	699.99	10	70		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 13	Lead Miner	699.99	10	70		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 13	Miner	4680.75	10	468		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 13	Mechanic / Welder	840.49	10	84		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 13	Electrician	264.86	10	26		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 13	Hyd Crane Operator	264.8	10	26		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 13	Shaft Crane Operator	230	10	23		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 13	Toplander	230	10	23		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 13	Bottomlander	102	10	10		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 13	Crane Oiler	178	10	18		Sacramento to/from New Hope Shaft	19		38	
NH-Eastern - 13	Concrete Pump Operator	64.3	10	6		Sacramento to/from New Hope Shaft	19		38	
TOTAL NH-Eastern-13				826	1651			31373		62747
NH-Eastern - 14	Bullgang Foreman	40	10	4		Sacramento to/from New Hope Shaft	19		38	

NH-Eastern - 14	Bullgang Laborer	80	10	8	Sacramento to/from New Hope Shaft	19	38
NH-Eastern - 14	Mechanic / Welder	40	10	4	Sacramento to/from New Hope Shaft	19	38
NH-Eastern - 14	Hyd Crane Operator	80	10	8	Sacramento to/from New Hope Shaft	19	38
NH-Eastern - 14	Flat Truck Driver	40	10	4	Sacramento to/from New Hope Shaft	19	38
TOTAL NH-Eastern-14				28		1064	2128

Marine Inventory for New Hope - Eastern Tunnel Shaft
Options 2A, 2B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for New Hope - Eastern Tunnel Shaft
Options 2A, 2B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for New Hope - Eastern Tunnel Shaft
Options 2A, 2B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for New Hope - Eastern Tunnel Shaft
Options 2A, 2B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
NH-Eastern - 1	10.7	1	11	3910	3910						
NH-Eastern - 3		90				31848	354				
NH-Eastern - 4		12		392	33						
NH-Eastern - 5		1				218	218				
NH-Eastern - 6		38		5408	142	5408	142				
NH-Eastern - 7		37				105	3				
NH-Eastern - 8		43		25420	591						
NH-Eastern - 9		13				4592	353				
NH-Eastern - 11		6				328	55				
NH-Eastern - 13		80				2134	27				
NH-Eastern - 13		80				1286	16				

**Demolition Assumptions for New Hope - Eastern Tunnel Shaft
Options 2A, 2B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Canal Ranch Tract - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	CR-E Access -1	4/15/2026	4/20/2026	4	4	10
Embankment	CR-E Access -2	4/21/2026	4/27/2026	5	5	10
Culvert Pipe	CR-E Access -3	4/28/2026	4/28/2026	1	1	10
Subdrain System	CR-E Access -4	4/29/2026	5/8/2026	8	5	10
Road Base	CR-E Access -5	5/11/2026	5/15/2026	5	5	10
12-month - Intermediate Maintenance	CR-E Access -6	4/4/2028	4/13/2028	8	5	10
12-month - Final Maintenance	CR-E Access -7	4/4/2029	4/13/2029	8	5	10
Acres	3.2					

Offroad Equipment (Fossil Fuel) Inventory for Canal Ranch Tract - Eastern Access Roads
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
CR-E Access -1	CAT D6LGPDozer w winch	Crawler Tractor	73.24	4	18	Diesel Tier 4 or Hybrid Dies	179	0.43		
CR-E Access -1	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	36.62	4	9	Diesel	384	0.38		
CR-E Access -2	CAT D6LGPDozer w winch	Crawler Tractor	41.2	5	8	Diesel Tier 4 or Hybrid Dies	179	0.43		
CR-E Access -2	Disk, Towed	Off-Highway Tractor	41.2	5	8	Diesel	140	0.44		
CR-E Access -2	CAT 14 M	Grader	20.6	5	4	Diesel	274	0.41		
CR-E Access -2	Water Pump, 4" Diesel	Pumps	4.94	5	1	Diesel	10	0.74		
CR-E Access -2	CAT 815, Roller	Roller	41.2	5	8	Diesel	170	0.38		
CR-E Access -3	Air Compressor 375 cfm	Air Compressor	6.28	1	6	Diesel Tier 4	122	0.48		
CR-E Access -3	CAT LOADER/HOE 416 E	Rubber Tired Loader	12.56	1	13	Diesel	78	0.36		
CR-E Access -3	Compactor, Plate, 22" w x 35"	Plate Compactor	6.28	1	6	Diesel	8.5	0.43		
CR-E Access -4	CAT LOADER/HOE 416 E	Rubber Tired Loader	19.31	8	2	Diesel	78	0.36		
CR-E Access -4	Compactor, Trench Roller, Vib 32"w	Roller	38.63	8	5	Diesel	20	0.38		
CR-E Access -5	CAT 14 M	Grader	45.78	5	9	Diesel	274	0.41		
CR-E Access -5	Water Pump, 4" Diesel	Pumps	45.78	5	9	Diesel	10	0.74		
CR-E Access -5	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	45.78	5	9	Diesel	156	0.38		
CR-E Access -6	CAT 14 M	Grader	109.87	8	14	Diesel	78	0.36		
CR-E Access -6	Water Pump, 4" Diesel	Pumps	109.87	8	14	Diesel or Hybrid	224	0.42		
CR-E Access -7	CAT 14 M	Grader	109.87	8	14	Diesel or Hybrid	137	0.38		
CR-E Access -7	Water Pump, 4" Diesel	Pumps	109.87	8	14	Diesel or Hybrid	133	0.38		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Canal Ranch Tract - Eastern Access Roads
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
CR-E Access -2	Light Plant, 4 lite, 1000w	164.8	5		

Vehicle Inventory for Canal Ranch Tract - Eastern Access Roads
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint w.s. offset)	# day	Vehicle Hours	Hours/Trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/100ft) (if known)	Fuel (gal/Day) (if known)
Vehicle Use on Paved Roads – and Not on Construction Site													
CR-E Access-1	Pickup, 1/2T, 2wd	Materials from Sacramento	4	18	1.0	18	4	Canal Ranch Shaft to Sacramento	31	62	Hybrid Gasoline		
CR-E Access-1	Truck, Water, 4 mgal, Hwy	Water from Lodi	4	9	0.4	24	6	Canal Ranch Shaft to Lodi	11	22	Diesel		
CR-E Access-1	Truck, Flatbed, 10T, Hwy	Crawler Tractor from Sacramento	1	1	1.0	1	1.0	Canal Ranch Shaft to Sacramento	31	62	Diesel		
CR-E Access-1	Truck, Flatbed, 10T, Hwy	Excavator to and from Sacramento	2	2	1.0	2	1.0	Canal Ranch Shaft to Sacramento	31	62	Diesel		
CR-E Access-1	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	4	7	1.0	7	1.8	Canal Ranch Shaft to Sacramento	31	62	Diesel		
CR-E Access-2	Pickup, 1/2T, 2wd	Materials from Sacramento	5	41	1.0	40	8	Canal Ranch Shaft to Sacramento	31	62	Hybrid Gasoline		
CR-E Access-2	Truck, Flatbed, 10T, Hwy	Crawler Tractor to Sacramento	1	6	1.0	6	6.1	Canal Ranch Shaft to Sacramento	31	62	Diesel		
CR-E Access-2	Truck, Flatbed, 10T, Hwy	Grader from Sacramento	1	1	1.0	1	1.0	Canal Ranch Shaft to Sacramento	31	62	Diesel		
CR-E Access-2	Truck, Flatbed, 10T, Hwy	Tractor & Roller to and from Sacramento	2	4	1.0	4	2.0	Canal Ranch Shaft to Sacramento	31	62	Diesel		
CR-E Access-2	Truck, End Dump, 16-20cy, Hwy	Gravel from Sacramento	5	355	1.0	344	69	Canal Ranch Shaft to Sacramento	31	62	Diesel		
CR-E Access-3	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	1	6	1.0	6	6	Canal Ranch Shaft to Sacramento	31	62	Diesel		
CR-E Access-3	Truck, Flatbed, 10T, Hwy	Loader from Sacramento	1	1	1.0	1	1.0	Canal Ranch Shaft to Sacramento	31	62	Diesel		
CR-E Access-3	Truck, Flatbed, 10T, Hwy	Plate Compactor to and from Sacramento	2	2	1.0	2	1.0	Canal Ranch Shaft to Sacramento	31	62	Diesel		
CR-E Access-3	Truck, End Dump, 16-20cy, Hwy	Gravel from Sacramento	1	2	1.0	2	2	Canal Ranch Shaft to Sacramento	31	62	Diesel		
CR-E Access-4	Truck, End Dump, 10-13cy, Hwy	Materials from Sacramento	8	39	1.0	37	5	Canal Ranch Shaft to Sacramento	31	62	Diesel		
CR-E Access-4	Truck, Flatbed, 10T, Hwy	Roller to and from Sacramento	2	2	1.0	2	1.0	Canal Ranch Shaft to Sacramento	31	62	Diesel		
CR-E Access-4	Truck, Flatbed, 10T, Hwy	Roller to Sacramento	1	1	1.0	1	1.0	Canal Ranch Shaft to Sacramento	31	62	Diesel		
CR-E Access-4	Truck, End Dump, 16-20cy, Hwy	Gravel from Sacramento	8	6	1.0	6	1	Canal Ranch Shaft to Sacramento	31	62	Diesel		
CR-E Access-5	Pickup, 3/4T, 4wd	Materials from Sacramento	5	46	1.0	44	9	Canal Ranch Shaft to Sacramento	31	62	Hybrid Gasoline		
CR-E Access-5	Truck, Water, 4 mgal, Hwy	Water from Lodi	5	37	0.4	100	20	Canal Ranch Shaft to Lodi	11	22	Diesel		
CR-E Access-5	Truck, End Dump, 16-20cy, Hwy	Base Rock from Sacramento	5	536	1.0	499	100	Canal Ranch Shaft to Sacramento	31	62	Diesel		
CR-E Access-5	Truck, End Dump, 16-20cy, Hwy	Gravel from Sacramento	5	71	1.0	69	14	Canal Ranch Shaft to Sacramento	31	62	Diesel		
CR-E Access-5	Truck, Flatbed, 10T, Hwy	Grader to Sacramento	1	1	1.0	1	1.0	Canal Ranch Shaft to Sacramento	31	62	Diesel		
CR-E Access-5	Truck, Flatbed, 10T, Hwy	Roller to and from Sacramento	2	2	1.0	2	1.0	Canal Ranch Shaft to Sacramento	31	62	Diesel		
CR-E Access-6	Pickup, 3/4T, 4wd	Materials from Sacramento	8	11	1.0	11	1	Canal Ranch Shaft to Sacramento	31	62	Hybrid Gasoline		
CR-E Access-6	Truck, Flatbed, 10T, Hwy	Grader to and from Sacramento	2	2	1.0	2	1.0	Canal Ranch Shaft to Sacramento	31	62	Diesel		
CR-E Access-6	Truck, Water, 4 mgal, Hwy	Water from Lodi	8	4	0.4	10	1	Canal Ranch Shaft to Lodi	11	22	Diesel		
CR-E Access-6	Truck, End Dump, 16-20cy, Hwy	Base Rock from Sacramento	8	516	1.0	499	62	Canal Ranch Shaft to Sacramento	31	62	Diesel		
CR-E Access-7	Truck, Flatbed, 10T, Hwy	Grader to and from Sacramento	2	2	1.0	2	1.0	Canal Ranch Shaft to Sacramento	31	62	Diesel		
CR-E Access-7	Pickup, 3/4T, 4wd	Materials from Sacramento	8	11	1.0	11	1	Canal Ranch Shaft to Sacramento	31	62	Hybrid Gasoline		
CR-E Access-7	Truck, Water, 4 mgal, Hwy	Water from Lodi	8	4	0.4	10	1	Canal Ranch Shaft to Lodi	11	22	Diesel		
CR-E Access-7	Truck, End Dump, 16-20cy, Hwy	Base Rock from Sacramento	8	516	1.0	499	62	Canal Ranch Shaft to Sacramento	31	62	Diesel		
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and risk lots) – on the Construction Site													
CR-E Access-4	CAT 730 3ET, articulated End Dump	Dumpers	4	183.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		916	Diesel Tier 4 or Hybrid Diesel		
CR-E Access-4	Truck, End Dump, 10-13cy, Hwy	Dumpers	8	38.63	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		193	Diesel		

Employees Required to Canal Ranch Tract - Eastern Access Roads
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip
CR-E Access -1	Operator G4 Dozer & Push Cat	73.24	10		Sacramento to Canal Ranch Shaft	31
CR-E Access -1	Operator G2 Excavator 3.5 to 7.0	36.62	10		Sacramento to Canal Ranch Shaft	31
CR-E Access -1	OPERATING ENGINEER FOREMAN	18.31	10		Sacramento to Canal Ranch Shaft	31
CR-E Access -1	Teamster G3 ED 8-24cy, Water>7	183.1	10		Sacramento to Canal Ranch Shaft	31
TOTAL CR-E Access-1						
CR-E Access -2	Laborer G2 General	4.94	10		Sacramento to Canal Ranch Shaft	31
CR-E Access -2	Operator G5 Compactor w-blade	41.2	10		Sacramento to Canal Ranch Shaft	31
CR-E Access -2	Operator G4 Dozer & Push Cat	41.2	10		Sacramento to Canal Ranch Shaft	31
CR-E Access -2	OPERATING ENGINEER FOREMAN	41.2	10		Sacramento to Canal Ranch Shaft	31
CR-E Access -2	Operator G2 Finish Blade	20.6	10		Sacramento to Canal Ranch Shaft	31
CR-E Access -2	Teamster G2 Hwy ED 6-8cy, Water<7	20.6	10		Sacramento to Canal Ranch Shaft	31
TOTAL CR-E Access-2						
CR-E Access -3	Laborer G1 Pipe layers	25.11	10		Sacramento to Canal Ranch Shaft	31
CR-E Access -3	Laborer Foreman	6.28	10		Sacramento to Canal Ranch Shaft	31
CR-E Access -3	Operator G3 BH-Loader>3/4cy	12.56	10		Sacramento to Canal Ranch Shaft	31
CR-E Access -3	Teamster G1 Hwy ED<6cy, Flatbed	9.42	10		Sacramento to Canal Ranch Shaft	31
CR-E Access -3	Teamster G2 Hwy ED 6-8cy, Water<7	3.14	10		Sacramento to Canal Ranch Shaft	31
TOTAL CR-E Access-3						
CR-E Access -4	Laborer G1 Pipe layers	77.25	10		Sacramento to Canal Ranch Shaft	31
CR-E Access -4	Laborer G1 Power Tamper	38.63	10		Sacramento to Canal Ranch Shaft	31
CR-E Access -4	Operator G4 Loader <4.1cy	19.31	10		Sacramento to Canal Ranch Shaft	31
CR-E Access -4	Teamster G2 Hwy ED 6-8cy, Water<7	38.63	10		Sacramento to Canal Ranch Shaft	31
TOTAL CR-E Access-4						
CR-E Access -5	Laborer G3 Flagman	91.55	10		Sacramento to Canal Ranch Shaft	31
CR-E Access -5	Operator G7 Roller, Compactor	45.78	10		Sacramento to Canal Ranch Shaft	31
CR-E Access -5	OPERATING ENGINEER FOREMAN	45.78	10		Sacramento to Canal Ranch Shaft	31
CR-E Access -5	Operator G4 Grade Check	45.78	10		Sacramento to Canal Ranch Shaft	31
CR-E Access -5	Operator G2 Finish Blade	45.78	10		Sacramento to Canal Ranch Shaft	31
CR-E Access -5	Operator G8 Generator	9.16	10		Sacramento to Canal Ranch Shaft	31
CR-E Access -5	Teamster G2 Hwy ED 6-8cy, Water<7	45.78	10		Sacramento to Canal Ranch Shaft	31
TOTAL CR-E Access-5						
CR-E Access -6	OPERATING ENGINEER FOREMAN	10.985	10		Sacramento to Canal Ranch Shaft	31
CR-E Access -6	Operator G2 Finish Blade	109.87	10		Sacramento to Canal Ranch Shaft	31
CR-E Access -6	Operator G8 Generator	21.975	10		Sacramento to Canal Ranch Shaft	31
CR-E Access -6	Teamster G2 Hwy ED 6-8cy, Water<7	109.87	10		Sacramento to Canal Ranch Shaft	31
TOTAL CR-E Access-6						
CR-E Access -7	OPERATING ENGINEER FOREMAN	10.985	10		Sacramento to Canal Ranch Shaft	31
CR-E Access -7	Operator G2 Finish Blade	109.87	10		Sacramento to Canal Ranch Shaft	31
CR-E Access -7	Operator G8 Generator	21.975	10		Sacramento to Canal Ranch Shaft	31
CR-E Access -7	Teamster G2 Hwy ED 6-8cy, Water<7	109.87	10		Sacramento to Canal Ranch Shaft	31
TOTAL CR-E Access-7						

Marine Inventory for Canal Ranch Tract - Eastern Access Roads
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Canal Ranch Tract - Eastern Access Roads
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

Helicopter Inventory for Canal Ranch Tract - Eastern Access Roads
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Canal Ranch Tract - Eastern Access Roads
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
CR-E Access -1	3.2	4	0.8	5493	1373						
CR-E Access -2		5				8240	1648				
CR-E Access -5		5				5493	1099				
CR-E Access -6		8				5494	687				
CR-E Access -7		8				5494	687				

Demolition Assumptions for Canal Ranch Tract - Eastern Access Roads
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Canal Ranch - Eastern Tunnel Shaft						
Options 2A, 2B						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Clear and Grub	CR-Eastern - 1	10/19/2028	10/20/2028	2	2	10
Ground Improvement	CR-Eastern - 2	10/23/2028	12/29/2028	50	5	10
Raise Shaft Pad	CR-Eastern - 3	1/1/2029	7/27/2029	148	5	10
Excavate, Set Strips, & Place Guide Wall	CR-Eastern - 4	7/30/2029	8/14/2029	12	5	10
Place Guide Walls Concrete	CR-Eastern - 5	8/15/2029	8/16/2029	2	2	10
Excavate Slurry Wall & Place Concrete & Rebar	CR-Eastern - 6	8/17/2029	9/25/2029	40	7	24
Slurry Wall including Strip Forms and Place Rebar & Top Beam	CR-Eastern - 7	9/26/2029	11/7/2029	43	7	24
Excavate Shaft	CR-Eastern - 8	11/8/2029	12/17/2029	40	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	CR-Eastern - 9	12/18/2029	12/31/2029	14	7	24
Dewater Shaft	CR-Eastern - 10	1/1/2030	1/7/2030	7	7	24
Place TBM Cradle Rebar and Cradle Pour	CR-Eastern - 11	1/8/2030	1/15/2030	6	5	10
Breakout Slurry Wall for TBM	CR-Eastern - 12	1/16/2030	2/11/2030	19	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	CR-Eastern - 13	1/16/2030	4/29/2030	75	5	10
Place Shaft Cover	CR-Eastern - 14	4/29/2030	5/7/2030	7	5	10
Total Site Acres		10.6				

Offroad Equipment (Fossil Fuel) Inventory for Canal Ranch - Eastern Tunnel Shaft
Options 2A, 2B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
CR-Eastern - 1	CAT D8 Dozer	Crawler Tractor	16.92	2	8	Diesel Tier 4 or Hybrid Diesel	179	0.43		
CR-Eastern - 1	CAT Grader 16H - 16' Blade	Grader	16.92	2	8	Diesel	285	0.41		
CR-Eastern - 1	623G Scraper Elevate 21 CY	Scaper	33.84	2	17	Diesel	359	0.48		
CR-Eastern - 2	Air Compressor 375 CFM	Air Compressor	62.9	50	1	Diesel Tier 4	122	0.48		
CR-Eastern - 2	Grove RT Crane 30T	Crane	62.9	50	1	Diesel	160	0.29		
CR-Eastern - 2	DMM Deep Soil Mixer	Bore Drill Rig	62.9	50	1	Diesel	808	0.5		
CR-Eastern - 2	DMM Grout Mix Plant	Other Industrial Equipmen	62.9	50	1	Diesel	500	0.34		
CR-Eastern - 2	Portable 90 Kw Diesel	Generators	20	50	<1	Diesel Tier 4	158	0.74		
CR-Eastern - 2	Case 590 SupN Loader	Rubber Tired Loaders	62.9	50	1	Diesel	110	0.36		
CR-Eastern - 2	Water Pump 4" Electric	Pumps	62.9	50	1	Diesel	10	0.74		
CR-Eastern - 3	CAT CB-634D Vibratory 84"	Rollers	652.82	148	4	Diesel	145	0.38		
CR-Eastern - 3	CAT Grader 16H	Graders	652.82	148	4	Diesel	285	0.41		
CR-Eastern - 3	CAT D8 Dozer	Crawler Tractor	652.82	148	4	Diesel	328	0.43		
CR-Eastern - 4	CAT Hyd Excavator 1CY	Excavator	6	12	1	Diesel	138	0.38		
CR-Eastern - 4	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	6	12	1	Diesel or Hybrid	130	0.36		
CR-Eastern - 6	1600 CFM Compressor Diesel	Air Compressor	216	40	5	Diesel Tier 4	540	0.48		
CR-Eastern - 6	Hydraulic 55 Ton Crane	Crane	463	40	12	Diesel	350	0.29		
CR-Eastern - 6	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	216	40	5	Diesel or Hybrid	130	0.36		
CR-Eastern - 6	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	216	40	5	Diesel	8	0.56		
CR-Eastern - 6	Slurry Wall Techniwell	Pumps	216	40	5	Diesel	500	0.74		
CR-Eastern - 6	Manitowoc 777 200 Ton Crane	Crane	463	40	12	Diesel	760	0.29		
CR-Eastern - 7	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	235.5	43	5	Diesel or Hybrid	130	0.36		
CR-Eastern - 7	250 CFM Compressor Diesel	Air Compressor	3.3	43	0.1	Diesel Tier 3	75	0.48		
CR-Eastern - 7	CAT Hyd Excavator 1CY	Excavator	235.5	43	5	Diesel	138	0.38		
CR-Eastern - 8	Manitowoc 777 200 Ton Crane	Crane	216.1	40	5	Diesel	760	0.29		
CR-Eastern - 9	Manitowoc 777 200 Ton Crane	Crane	111	14	8	Diesel	760	0.29		
CR-Eastern - 9	Hydraulic 40 Ton Crane	Crane	36	14	3	Diesel	300	0.29		
CR-Eastern - 9	Hydraulic 25 Ton Crane	Crane	76.47	14	5	Diesel	100	0.29		
CR-Eastern - 10	Dewater Pump 6"	Pump	400	7	57	Diesel	50	0.74		
CR-Eastern - 10	150 KW Diesel Generator	Generator	100	7	14	Diesel Tier 4	183	0.74		
CR-Eastern - 10	Hydraulic 15 Ton Crane	Crane	100	7	14	Diesel	100	0.29		
CR-Eastern - 11	Manitowoc 777 200 Ton Crane	Crane	87.2	6	15	Diesel	760	0.29		
CR-Eastern - 11	250 CFM Compressor Diesel	Air Compressor	60.2	6	10	Diesel Tier 3	75	0.48		
CR-Eastern - 11	Trailer Conc Pump 100 CY HR	Pump	60.2	6	10	Diesel	200	0.74		
CR-Eastern - 12	250 CFM Compressor Diesel	Air Compressor	99.2	19	5	Diesel Tier 3	75	0.48		
CR-Eastern - 12	Manitowoc 777 200 Ton Crane	Crane	99.2	19	5	Diesel	760	0.29		
CR-Eastern - 13	Hydraulic 9 Ton Crane	Crane	264.8	75	4	Diesel	85	0.29		
CR-Eastern - 13	250 CFM Compressor Diesel	Air Compressor	637.49	75	8	Diesel Tier 3	75	0.48		
CR-Eastern - 13	Trailer Conc Pump 100 CY HR	Pump	258.66	75	3	Diesel	200	0.74		
CR-Eastern - 13	Manitowoc 777 200 Ton Crane	Crane	50	75	1	Diesel	760	0.29		
CR-Eastern - 13	Manitowoc 999-275 Ton Crane	Crane	117.83	75	2	Diesel	900	0.29		
CR-Eastern - 14	Hydraulic 9 Ton Crane	Crane	50	7	7	Diesel	85	0.29		
CR-Eastern - 14	Hydraulic 40 Ton Crane	Crane	50	7	7	Diesel	300	0.29		
CR-Eastern - 14	CAT Forklift 5,500 LB	Aerial Lift	50	7	7	Diesel	63	0.31		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Canal Ranch - Eastern Tunnel Shaft
Options 2A, 2B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
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NOT NEEDED

Vehicle Inventory for Canal Ranch - Eastern Tunnel Shaft
Options 2A, 2B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
CR-Eastern - 1	Truck, Flatbed, 10T, Hwy	Grader and Scraper to and from Sacramento	2	4.1	1.0	4	2.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 1	Truck, Flatbed, 10T, Hwy	Crawler Tractor from Sacramento	1	1.0	1.0	1	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 2	Pickup 1/2T 2 WD	Materials from Sacramento	50	62.9	1.0	61	1	Canal Ranch Shaft to/from Sacramento	31	62	Hybrid Gasoline	
CR-Eastern - 2	Truck Flatbed 4 T Highway	Materials from Sacramento	50	62.9	1.0	61	1	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 2	Mechanic Truck	Materials from Sacramento	50	62.9	1.0	61	1	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 2	Truck, Flatbed, 10T, Hwy	Crane, Trencher, & Other Equipment to and from Sacramento	2	6.2	1.0	6	3.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 3	Highway Dump Truck 18 CY	Materials from Sacramento	148	723.6	1.0	700	5	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 3	Truck End Dump 16-20CY Hwy	Soil Material in Covered Trucks from Twin Oaks Complex	148	1305.6	0.4	3013	20	Canal Ranch Shaft to/from Twin Oaks Complex	13	26	Diesel	
CR-Eastern - 3	Truck, Flatbed, 10T, Hwy	Grader and Roller to and from Sacramento	2	4.1	1.0	4	2.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 3	Truck, Flatbed, 10T, Hwy	Crawler Tractor to Sacramento	1	1.0	1.0	1	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 4	Truck, Flatbed, 10T, Hwy	Excavator to and from Sacramento	2	2.1	1.0	2	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 4	Truck, Flatbed, 10T, Hwy	Loader from Sacramento	1	1.0	1.0	1	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 6	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	40	201.5	1.0	195	5	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 6	Truck Flatbed 4 T Highway	Rebar from Sacramento	40	26.9	1.0	26	1	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 6	Concrete Transit Mix Truck 12cy	5000 psi Concrete from Lambert Road Concrete Batch Plant	40	262.6	0.4	606	15	Canal Ranch Shaft to/from Lambert Road Concrete Batch Plant	13	26	Diesel	
CR-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane and Other Equipment to and from Sacramento	2	4.1	1.0	4	2.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane from Sacramento	1	1.0	1.0	1	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 7	Truck, Flatbed, 10T, Hwy	Loader to Sacramento	1	1.0	1.0	1	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 8	Concrete Transit Mix Truck 12cy	5000 psi Concrete from Lambert Road Concrete Batch Plant	40	4.8	0.4	11	0	Canal Ranch Shaft to/from Lambert Road Concrete Batch Plant	13	26	Diesel	
CR-Eastern - 9	Truck Flatbed 4 T Highway	Rebar from Sacramento	14	7.2	1.0	7	1	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 9	Concrete Transit Mix Truck 12cy	Tremie Concrete from Lambert Road Concrete Batch Plant	14	209.3	0.4	483	35	Canal Ranch Shaft to/from Lambert Road Concrete Batch Plant	13	26	Diesel	
CR-Eastern - 9	Truck, Flatbed, 10T, Hwy	Cranes to and from Sacramento	2	4.1	1.0	4	2.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 10	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	2.1	1.0	2	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 11	Truck Flatbed 4 T Highway	Rebar from Sacramento	6	2.1	1.0	2	0.3	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 11	Concrete Transit Mix Truck 12cy	5000 psi Concrete from Lambert Road Concrete Batch Plant	6	23.4	0.4	54	9	Canal Ranch Shaft to/from Lambert Road Concrete Batch Plant	13	26	Diesel	
CR-Eastern - 13	Truck Flatbed 4 T Highway	Rebar from Sacramento	75	1.0	1.0	1	0.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 13	Concrete Transit Mix Truck 12cy	5000 psi Concrete from Lambert Road Concrete Batch Plant	75	87.0	0.5	174	2	Canal Ranch Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
CR-Eastern - 13	Concrete Transit Mix Truck 12cy	Rheobild 5000 Concrete from Lambert Road Concrete Batch Plant	75	37.0	0.5	74	1	Canal Ranch Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
CR-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to Sacramento	2	1.0	1.0	1	0.5	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	2.1	1.0	2	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 14	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	2.1	1.0	2	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
Vehicle Use on Unpaved/DMT Surface (no access roads at park and ride lots) --- on the Construction Site												
CR-Eastern - 4	CAT 730 Rear Dump	Dumper	12	18.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		92	Diesel or Hybrid	
CR-Eastern - 6	CAT 730 Rear Dump	Dumper	40	246.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1231	Diesel or Hybrid	
CR-Eastern - 6	Articulated Rear Dump 22 CY CAT 730	Dumper	40	246.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1231	Diesel or Hybrid	
CR-Eastern - 6	Concrete Pump Truck	Off Highway Truck	40	432.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2363	Diesel	
CR-Eastern - 8	Trucking Off Highway CAT 730	Dumpers	40	1080.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		5402	Diesel	
CR-Eastern - 9	Concrete Pump Truck	Off Highway Truck	14	76.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		380	Diesel	

Employees Required to Canal Ranch - Eastern Tunnel Shaft
Options 2A, 2B

Code	Employee Type	Hours	# WorkDay		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
CR-Eastern - 1	General Foreman	8.46	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 1	Dozer Operator	16.92	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 1	Grader Operator	16.92	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 1	Operator G4 Grade Check	8.46	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 1	Scraper Operator	33.84	10		Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-1						
CR-Eastern - 2	Laborer G2 General	188.7	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 2	Operator G3a Crane	62.9	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 2	Operator G3 BH Loader	62.9	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 2	Operating Engineer	62.9	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 2	Operator G4 Grade Check	62.9	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 2	Operator G4 Heavy Duty Mechanic	62.9	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 2	Operator G2 Plant Operator	125.8	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 2	Teamster G1 Hwy	62.9	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 2	Teamster G2 Hwy	62.9	10		Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-2						
CR-Eastern - 3	Grade Setter / Checker	652.82	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 3	Water Truck Highway	652.82	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 3	Compactor Operator	652.82	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 3	Dozer Operator	652.82	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 3	Grader Operator	652.82	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 3	Truck Driver	652.82	10		Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-3						
CR-Eastern - 4	Shifter	6	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 4	Lead Miner	6	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 4	Miner	6	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 4	Loader Operator	6	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 4	Excavator Operator	6	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 4	Truck Driver	17.94	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 4	Carpenter	353.39	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 4	Carpenter Foreman	88.35	10		Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-4						
CR-Eastern - 5	General Laborer	10.9	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 5	Carpenter	94.95	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 5	Carpenter Foreman	23.74	10		Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-5						
CR-Eastern - 6	General Laborer	2376	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	General Foreman	432	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Mechanic Welder	432	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Shaft Crane Operator	463	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Crane Oiler	463	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Truck Driver	216	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Shifter	710.32	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Lead Miner	216.32	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Miner	1730.56	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Hyd Crane Operator	463	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Loader Operator	216	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Slurry Wall Consultant	216	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Iron Worker Foreman	494	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Iron Worker	2470	24		Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-6						
CR-Eastern - 7	Hydraulic Excavator to 3.5	235.5	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 7	Loader Operator	235.5	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 7	Excavator Operator	235.5	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 7	Hyd Track Drill	235.5	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 7	General Laborer	735.78	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 7	General Foreman	235.5	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 7	Carpenter	33.2	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 7	Carpenter Foreman	8.3	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 7	Iron Worker Foreman	12.68	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 7	Iron Worker	50.68	24		Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-7						
CR-Eastern - 8	Diver Contractor	205.81	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 8	Shaft Crane Operator	216.1	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 8	Toplander	216.1	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 8	Crane Oiler	216.1	24		Sacramento to/from Canal Ranch Shaft	31

TOTAL CR-Eastern-8

CR-Eastern - 9	Diver Contractor	138.74	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 9	Shifter	166.12	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 9	Lead Miner	19.12	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 9	Miner	446.95	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 9	Hyd Crane Operator	188.94	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 9	Toplander	255	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 9	Bottomlander	111	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 9	Shaft Crane Operator	111	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 9	Iron Worker Foreman	147	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 9	Iron Worker	288	24	Sacramento to/from Canal Ranch Shaft	31

TOTAL CR-Eastern-9

CR-Eastern - 10	Shifter	100	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 10	Lead Miner	100	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 10	Miner	800	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 10	Hyd Crane Operator	100	24	Sacramento to/from Canal Ranch Shaft	31

TOTAL CR-Eastern-10

CR-Eastern - 11	Shifter	87.2	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Miner	535.6	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Shaft Crane Operator	87.2	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Toplander	87.2	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Bottomlander	52	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Crane Oiler	35.2	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Iron Worker	216	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Iron Worker Foreman	27	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Lead Miner	60.2	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Mechanic Welder	60.2	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Electrician	8.2	10	Sacramento to/from Canal Ranch Shaft	31

TOTAL CR-Eastern-11

CR-Eastern - 12	Shaft Crane Operator	99.2	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 12	Toplander	99.2	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 12	Bottomlander	99.2	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 12	Crane Oiler	99.2	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 12	Iron Worker	793.59	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 12	Iron Worker Foreman	99.2	10	Sacramento to/from Canal Ranch Shaft	31

TOTAL CR-Eastern-12

CR-Eastern - 13	Shifter	637.49	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Lead Miner	637.49	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Miner	4180.75	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Mechanic / Welder	788.49	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Electrician	264.86	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Hyd Crane Operator	264.8	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Shaft Crane Operator	168	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Toplander	114	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Bottomlander	50	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Crane Oiler	168	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Concrete Pump Operator	53.8	10	Sacramento to/from Canal Ranch Shaft	31

TOTAL CR-Eastern-13

CR-Eastern - 14	Bullgang Foreman	50	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 14	Bullgang Laborer	100	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 14	Mechanic / Welder	50	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 14	Hyd Crane Operator	100	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 14	Flat Truck Driver	50	10	Sacramento to/from Canal Ranch Shaft	31

TOTAL CR-Eastern-14

Marine Inventory for Canal Ranch - Eastern Tunnel Shaft
Options 2A, 2B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Canal Ranch - Eastern Tunnel Shaft
Options 2A, 2B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Canal Ranch - Eastern Tunnel Shaft
Options 2A, 2B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Canal Ranch - Eastern Tunnel Shaft
Options 2A, 2B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
CR-Eastern - 1	10.6	2	5	4262.6	2131						
CR-Eastern - 3		148				28730	194				
CR-Eastern - 4		12		392	33						
CR-Eastern - 5		2				218	109				
CR-Eastern - 6		40		5408	135	5408	135				
CR-Eastern - 7		43				105	2				
CR-Eastern - 8		40		23780	595						
CR-Eastern - 9		14				4592	328				
CR-Eastern - 11		6				328	55				
CR-Eastern - 13		75				2134	28				
CR-Eastern - 13		75				1075	14				

**Demolition Assumptions for Canal Ranch - Eastern Tunnel Shaft
Options 2A, 2B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Charter Way Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Excavation	CWPR-1	11/1/2026	11/12/2026	10	5	10
Culvert Pipe	CWPR-2	11/13/2026	11/13/2026	1	1	10
Subdrain System	CWPR-3	11/16/2026	11/16/2026	1	1	10
Road Base	CWPR-4	11/17/2026	11/19/2026	3	3	10
Asphalt Paving	CWPR-5	11/20/2026	11/24/2026	5	5	10
Electrical, Striping, and K-Rail Installation	CWPR-6	11/25/2026	11/25/2026	1	5	10

Acres2.4

Construction Schedule for Terminous Island - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	TI-E Access -1	3/30/2026	4/1/2026	3	3	10
Culvert Pipe	TI-E Access -2	4/2/2026	4/2/2026	1	1	10
Subdrain System	TI-E Access -3	4/3/2026	4/10/2026	6	5	10
Road Base	TI-E Access -4	4/13/2026	4/14/2026	2	2	10
Asphalt	TI-E Access -5	4/15/2026	4/20/2026	5	5	10
KRail and Signs	TI-E Access -6	4/21/2026	4/27/2026	5	5	10

Acres **4.8**

Offroad Equipment (Fossil Fuel) Inventory for Terminous Island - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
TI-E Access -1	CAT D6LGPDozer w winch	Crawler Tractor	51.32	3	17	Diesel Tier 4 or Hybrid Dies	179	0.43		
TI-E Access -1	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	25.66	3	9	Diesel	384	0.38		
TI-E Access -2	Air Compressor 375 cfm	Air Compressor	2.94	1	3	Diesel Tier 4	122	0.48		
TI-E Access -2	CAT LOADER/HOE 416 E	Rubber Tired Loader	5.89	1	6	Diesel	78	0.36		
TI-E Access -2	Compactor, Plate, 22"w x 35"	Plate Compactor	2.94	1	3	Diesel	8.5	0.43		
TI-E Access -3	CAT LOADER/HOE 416 E	Rubber Tired Loader	13.54	6	2	Diesel	78	0.36		
TI-E Access -3	Compactor, Trench Roller, Vib 32"w	Roller	27.08	6	5	Diesel	20	0.38		
TI-E Access -4	CAT 14 M	Grader	13.33	2	7	Diesel	274	0.41		
TI-E Access -4	Water Pump, 4" Diesel	Pumps	13.33	2	7	Diesel	10	0.74		
TI-E Access -4	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	13.33	2	7	Diesel	156	0.38		
TI-E Access -5	CAT LOADER/HOE 416 E	Rubber Tired Loader	30.02	5	6	Diesel	78	0.36		
TI-E Access -5	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	30.02	5	6	Diesel or Hybrid Diesel	224	0.42		
TI-E Access -5	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	30.02	5	6	Diesel or Hybrid Diesel	137	0.38		
TI-E Access -5	Asphalt Rolller, 17.6 Tn Pneumatic,133hp	Roller	30.02	5	6	Diesel or Hybrid Diesel	133	0.38		
TI-E Access -6	CAT LOADER/HOE 416 E	Rubber Tired Loader	43.3	5	9	Diesel	78	0.36		
TI-E Access -6	Boom Truck, 12.5 Tn Boom	Crane	43.3	5	9	Diesel or Hybrid Diesel	100	0.29		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Terminous Island - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
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NOT NEEDED

Vehicle Inventory for Terminus Island - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gpi/day) (if known)	Fuel (gpi/day) (if known)
Vehicle Use on Paved Roads --- and then on Construction Site													
Th E Access-1	Pickup, 1/2T, 4wd	Materials from Stockton	3	13	0.6	20	7	Terminus Shaft to/from Stockton	19	38	Hybrid Gasoline		
Th E Access-1	Truck, Water, 4 mgal, Hwy	Water from Lodi	3	14	0.4	32	11	Terminus Shaft to/from Lodi	13	26	Diesel		
Th E Access-1	Truck, Flatbed, 10T Hwy	Crawler Tractor from Stockton	1	1	0.6	1	1.0	Terminus Shaft to/from Stockton	19	38	Diesel		
Th E Access-1	Truck, Flatbed, 10T Hwy	Excavator to and from Stockton	2	1	0.6	2	1.0	Terminus Shaft to/from Stockton	19	38	Diesel		
Th E Access-1	Truck, Flatbed, 10T Hwy	Materials from Stockton	2	27	0.6	42	21.0	Terminus Shaft to/from Stockton	19	38	Diesel		
Th E Access-2	Truck, Flatbed, 10T Hwy	Materials from Stockton	1	3	0.6	5	5	Terminus Shaft to/from Stockton	19	38	Diesel		
Th E Access-2	Truck, Flatbed, 10T Hwy	Loader from Stockton	1	1	0.6	1	1.0	Terminus Shaft to/from Stockton	19	38	Diesel		
Th E Access-2	Truck, Flatbed, 10T Hwy	Plate Compactor to and from Stockton	2	1	0.6	2	1.0	Terminus Shaft to/from Stockton	19	38	Diesel		
Th E Access-2	Truck End Dump 16-20cy Hwy	Gravel from Lodi	1	0	0.4	1	1	Terminus Shaft to/from Lodi	13	26	Diesel		
Th E Access-3	Truck, End Dump, 10-13cy Hwy	Materials from Stockton	6	27	0.6	43	7	Terminus Shaft to/from Stockton	19	38	Diesel		
Th E Access-3	Truck, Flatbed, 10T Hwy	Roller to Stockton	1	1	0.6	1	1.0	Terminus Shaft to/from Stockton	19	38	Diesel		
Th E Access-3	Truck End Dump 16-20cy Hwy	Gravel from Lodi	6	2	0.4	4	1	Terminus Shaft to/from Lodi	13	26	Diesel		
Th E Access-4	Pickup, 1/4T, 4wd	Materials from Stockton	2	13	0.6	21	11	Terminus Shaft to/from Stockton	19	38	Hybrid Gasoline		
Th E Access-4	Truck, Water, 4 mgal, Hwy	Water from Lodi	2	13	0.4	31	16	Terminus Shaft to/from Lodi	13	26	Diesel		
Th E Access-4	Truck End Dump 16-20cy Hwy	Base Rock from Lodi	2	53	0.4	122	61	Terminus Shaft to/from Lodi	13	26	Diesel		
Th E Access-4	Truck, Flatbed, 10T Hwy	Grader to Stockton	1	1	0.6	1	1.0	Terminus Shaft to/from Stockton	19	38	Diesel		
Th E Access-4	Truck, Flatbed, 10T Hwy	Roller to and from Stockton	2	1	0.6	2	1.0	Terminus Shaft to/from Stockton	19	38	Diesel		
Th E Access-5	Truck, Flatbed, 10T Hwy	Grader to and from Stockton	2	1	0.6	2	1.0	Terminus Shaft to/from Stockton	19	38	Diesel		
Th E Access-5	Truck, Water, 4 mgal, Hwy	Water from Lodi	5	13	0.4	30	6	Terminus Shaft to/from Lodi	13	26	Diesel		
Th E Access-5	Truck & Bottom Dump 21cy 30T	Asphalt from Lodi	5	72	0.4	167	33	Terminus Shaft to/from Lodi	13	26	Diesel Tier 4		
Th E Access-6	Truck, Flatbed, 10T Hwy	Grader to and from Stockton	2	1	0.6	2	1.0	Terminus Shaft to/from Stockton	19	38	Diesel		
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site													
Th E Access-1	CAT 730 30T, Articulated End Dump	Dumpers	3	51.32	not applicable	not applicable	not applicable	on-site: assume 1 mile/hour		257	Diesel Tier 4 or Hybrid Diesel		
Th E Access-1	Truck, End Dump, 10-13cy Hwy	Dumpers	3	76.98	not applicable	not applicable	not applicable	on-site: assume 1 mile/hour		385	Diesel		

Employees Required to Terminous Island - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip
TI-E Access -1	Operator G4 Dozer & Push Cat	51.32	10		Lodi to/from Terminous Shaft	13
TI-E Access -1	Operator G2 Excavator 3.5 to 7.0	25.66	10		Lodi to/from Terminous Shaft	13
TI-E Access -1	OPERATING ENGINEER FOREMAN	12.83	10		Lodi to/from Terminous Shaft	13
TI-E Access -1	Teamster G2 Hwy ED 6-8cy, Wate	76.98	10		Lodi to/from Terminous Shaft	13
TI-E Access -1	Teamster G3 ED 8-24cy, Water>7	51.32	10		Lodi to/from Terminous Shaft	13
TOTAL TI-E Access-1						
TI-E Access -2	Laborer G1 Pipe layers	11.78	10		Lodi to/from Terminous Shaft	13
TI-E Access -2	Laborer Foreman	2.94	10		Lodi to/from Terminous Shaft	13
TI-E Access -2	Operator G3 BH-Loader>3/4cy	5.89	10		Lodi to/from Terminous Shaft	13
TI-E Access -2	Teamster G1 Hwy ED<6cy, Flatbed	4.42	10		Lodi to/from Terminous Shaft	13
TI-E Access -2	Teamster G2 Hwy ED 6-8cy, Water<7	1.47	10		Lodi to/from Terminous Shaft	13
TOTAL TI-E Access-2						
TI-E Access -3	Laborer G1 Pipe layers	54.15	10		Lodi to/from Terminous Shaft	13
TI-E Access -3	Laborer G1 Power Tamper	27.08	10		Lodi to/from Terminous Shaft	13
TI-E Access -3	Operator G4 Loader <4.1cy	13.54	10		Lodi to/from Terminous Shaft	13
TI-E Access -3	Teamster G2 Hwy ED 6-8cy, Water<7	27.08	10		Lodi to/from Terminous Shaft	13
TOTAL TI-E Access-3						
TI-E Access -4	Laborer G3 Flagman	26.66	10		Lodi to/from Terminous Shaft	13
TI-E Access -4	Operator G7 Roller, Compactor	13.33	10		Lodi to/from Terminous Shaft	13
TI-E Access -4	OPERATING ENGINEER FOREMAN	13.33	10		Lodi to/from Terminous Shaft	13
TI-E Access -4	Operator G4 Grade Check	13.33	10		Lodi to/from Terminous Shaft	13
TI-E Access -4	Operator G2 Finish Blade	13.33	10		Lodi to/from Terminous Shaft	13
TI-E Access -4	Operator G8 Generator	2.67	10		Lodi to/from Terminous Shaft	13
TI-E Access -4	Teamster G2 Hwy ED 6-8cy, Water<7	13.33	10		Lodi to/from Terminous Shaft	13
TOTAL TI-E Access-4						
TI-E Access -5	Laborer G2 General	120.08	10		Lodi to/from Terminous Shaft	13
TI-E Access -5	Operator G5 Asphalt Roller	60.04	10		Lodi to/from Terminous Shaft	13
TI-E Access -5	Operator G3 BH-Loader>3/4cy	30.02	10		Lodi to/from Terminous Shaft	13
TI-E Access -5	OPERATING ENGINEER FOREMAN	30.02	10		Lodi to/from Terminous Shaft	13
TI-E Access -5	Operator G4 Grade Check	30.02	10		Lodi to/from Terminous Shaft	13
TI-E Access -5	Operator G5 Paver	30.02	10		Lodi to/from Terminous Shaft	13
TI-E Access -5	Teamster G2 Hwy ED 6-8cy, Water<7	15.01	10		Lodi to/from Terminous Shaft	13
TOTAL TI-E Access-5						
TI-E Access -6	Iron Worker-Rigger	43.3	10		Lodi to/from Terminous Shaft	13
TI-E Access -6	Laborer G2 General	173.2	10		Lodi to/from Terminous Shaft	13
TI-E Access -6	Operator G4a Boom truck<15 ton	43.3	10		Lodi to/from Terminous Shaft	13
TI-E Access -6	Operator G3 BH-Loader>3/4cy	43.3	10		Lodi to/from Terminous Shaft	13
TI-E Access -6	OPERATING ENGINEER FOREMAN	43.3	10		Lodi to/from Terminous Shaft	13
TI-E Access -6	Teamster G3 Boom Truck	43.3	10		Lodi to/from Terminous Shaft	13
TOTAL TI-E Access-6						

Marine Inventory for Terminous Island - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Terminous Island - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

Helicopter Inventory for Terminous Island - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Te

[illegible]

Demolition Assumptions for Terminous Island - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

**Construction Schedule for Terminous - Eastern Tunnel Shaft
Options 2A, 2B**

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Clear and Grub	TI-Eastern - 1	5/14/2031	5/20/2031	5	5	10
Ground Improvement	TI-Eastern - 2	5/21/2031	6/10/2031	15	5	10
Raise Shaft Pad	TI-Eastern - 3	11/12/2031	9/2/2032	211	5	10
Excavate, Set Strips, & Place Guide Wall	TI-Eastern - 4	9/3/2032	9/3/2032	1	1	10
Place Guide Walls Concrete	TI-Eastern - 5	9/21/2032	9/22/2032	2	2	10
Excavate Slurry Wall & Place Concrete & Rebar	TI-Eastern - 6	9/23/2032	11/1/2032	40	7	24
Slurry Wall including Strip Forms and Place Rebar & Top Beam	TI-Eastern - 7	11/2/2032	12/14/2032	43	7	24
Excavate Shaft	TI-Eastern - 8	12/15/2032	7/27/2033	225	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	TI-Eastern - 9	12/15/2032	2/10/2033	58	7	24
Dewater Shaft	TI-Eastern - 10	2/11/2033	2/17/2033	7	7	24
Place TBM Cradle Rebar and Cradle Pour	TI-Eastern - 11	2/18/2033	2/25/2033	6	5	10
Breakout Slurry Wall for TBM	TI-Eastern - 12	2/28/2033	3/24/2033	19	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	TI-Eastern - 13	3/25/2033	5/5/2033	30	5	10
Place Shaft Cover	TI-Eastern - 14	6/12/2033	6/19/2033	5	5	10

Total Site Acres **13.3**

Offroad Equipment (Fossil Fuel) Inventory for Terminous - Eastern Tunnel Shaft
Options 2A, 2B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (If known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (If known)
TI-Eastern - 1	CAT D8 Dozer	Crawler Tractor	31.08	5	6	Diesel Tier 4 or Hybrid Dese	179	0.43		
TI-Eastern - 1	CAT Grader 16H - 16' Blade	Grader	31.08	5	6	Diesel	285	0.41		
TI-Eastern - 1	623G Scraper Elevate 21 CY	Scraper	62.16	5	12	Diesel	359	0.48		
TI-Eastern - 3	CAT CB-634D Vibratory 84"	Rollers	1436.1	211	7	Diesel	145	0.38		
TI-Eastern - 3	CAT Grader 16H	Graders	1436.1	211	7	Diesel	285	0.41		
TI-Eastern - 3	CAT D8 Dozer	Crawler Tractor	1436.1	211	7	Diesel	328	0.43		
TI-Eastern - 4	CAT Hyd Excavator 1CY	Excavator	6	1	6	Diesel	138	0.38		
TI-Eastern - 4	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	6	1	6	Diesel or Hybrid	130	0.36		
TI-Eastern - 6	1600 CFM Compressor Diesel	Air Compressor	250.3	40	6	Diesel Tier 4	540	0.48		
TI-Eastern - 6	Hydraulic 55 Ton Crane	Crane	494	40	12	Diesel	350	0.29		
TI-Eastern - 6	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	247	40	6	Diesel or Hybrid	130	0.36		
TI-Eastern - 6	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	247	40	6	Diesel	8	0.56		
TI-Eastern - 6	Slurry Wall Techniwell	Pumps	247	40	6	Diesel	500	0.74		
TI-Eastern - 6	Manitowoc 777 200 Ton Crane	Crane	494	40	12	Diesel	760	0.29		
TI-Eastern - 7	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	235.5	43	5	Diesel or Hybrid	130	0.36		
TI-Eastern - 7	250 CFM Compressor Diesel	Air Compressor	16	43	0.4	Diesel Tier 3	75	0.48		
TI-Eastern - 7	Hydraulic Excavator to 3.5	Excavator	235.5	43	5	Diesel	138	0.38		
TI-Eastern - 7	CAT Hyd Excavator 1CY	Excavator	251.5	43	6	Diesel	138	0.38		
TI-Eastern - 7	Hydraulic 9 Ton Crane	Crane	16	43	0	Diesel	85	0.38		
TI-Eastern - 7	Hydraulic 40 Ton Crane	Crane	16	43	0	Diesel	300	0.38		
TI-Eastern - 7	CAT Forklift 5,500 LB	Aerial Lifts	16	43	0	Diesel	63	0.31		
TI-Eastern - 8	Manitowoc 777 200 Ton Crane	Crane	248	225	1	Diesel	760	0.29		
TI-Eastern - 9	Manitowoc 777 200 Ton Crane	Crane	111	58	2	Diesel	760	0.29		
TI-Eastern - 9	Hydraulic 40 Ton Crane	Crane	36	58	1	Diesel	300	0.29		
TI-Eastern - 9	Hydraulic 25 Ton Crane	Crane	76.47	58	1	Diesel	100	0.29		
TI-Eastern - 10	Dewater Pump 6"	Pump	400	7	57	Diesel	50	0.74		
TI-Eastern - 10	150 KW Diesel Generator	Generator	100	7	14	Diesel Tier 4	183	0.74		
TI-Eastern - 10	Hydraulic 15 Ton Crane	Crane	100	7	14	Diesel	100	0.29		
TI-Eastern - 11	Manitowoc 777 200 Ton Crane	Crane	35.53	6	6	Diesel	760	0.29		
TI-Eastern - 11	250 CFM Compressor Diesel	Air Compressor	8.2	6	1	Diesel Tier 3	75	0.48		
TI-Eastern - 11	Trailer Conc Pump 100 CY HR	Pump	8.2	6	1	Diesel	200	0.74		
TI-Eastern - 12	250 CFM Compressor Diesel	Air Compressor	300	19	16	Diesel Tier 3	75	0.48		
TI-Eastern - 12	Manitowoc 777 200 Ton Crane	Crane	300	19	16	Diesel	760	0.29		
TI-Eastern - 13	250 CFM Compressor Diesel	Air Compressor	678	30	23	Diesel Tier 3	75	0.48		
TI-Eastern - 13	Trailer Conc Pump 100 CY HR	Pump	340	30	11	Diesel	200	0.74		
TI-Eastern - 13	Manitowoc 777 200 Ton Crane	Crane	102	30	3	Diesel	760	0.29		
TI-Eastern - 13	Manitowoc 999-275 Ton Crane	Crane	288	30	10	Diesel	900	0.29		
TI-Eastern - 14	Hydraulic 9 Ton Crane	Crane	50	5	10	Diesel	85	0.29		
TI-Eastern - 14	Hydraulic 40 Ton Crane	Crane	50	5	10	Diesel	300	0.29		
TI-Eastern - 14	CAT Forklift 5,500 LB	Aerial Lift	50	5	10	Diesel	63	0.31		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Terminous - Eastern Tunnel Shaft
Options 2A, 2B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
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NOT NEEDED

Vehicle Inventory for Terminus - Eastern Tunnel Shaft
Options 2A, 2B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
Ti-Eastern - 1	Truck, Flatbed, 10T, Hwy	Scaper to and from Stockton	2	1	0.6	2	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 1	Truck, Flatbed, 10T, Hwy	Dozer and Grader from Stockton	1	1	0.6	2	2.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 2	Truck, Flatbed, 10T, Hwy	Dozer and Grader from Stockton	15	1	0.6	2	61.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 3	Highway Dump Truck 18 CY	Materials from Stockton	211	1436.1	0.6	2268	11	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 3	Truck End Dumper 16-20cy Hwy	Soil Material in Covered Trucks from Twin Cities Complex	211	3512	0.8	4214	20	Terminus Shaft to/from Twin Cities Complex	25	50	Diesel	
Ti-Eastern - 3	Truck, Flatbed, 10T, Hwy	Roller to and from Stockton	2	1	0.6	2	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 3	Truck, Flatbed, 10T, Hwy	Dozer and Grader to Stockton	1	1	0.6	2	2.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 4	Truck, Flatbed, 10T, Hwy	Excavator and Loader from Stockton	1	1	0.6	2	2.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 5	Truck Flatbed 4 T Highway	Rebar from Sacramento	2	1	1.3	1	1	Terminus Shaft to/from Sacramento	40	80	Diesel	
Ti-Eastern - 5	Concrete Transit Mix Truck 12cy	Concrete from Lodi	2	10	0.4	23	12	Terminus Shaft to/from Lodi	13	26	Diesel	
Ti-Eastern - 6	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	40	260	1.3	195	5	Terminus Shaft to/from Sacramento	40	80	Diesel	
Ti-Eastern - 6	Truck Flatbed 4 T Highway	Rebar from Sacramento	40	37	1.3	28	1	Terminus Shaft to/from Sacramento	40	80	Diesel	
Ti-Eastern - 6	Concrete Transit Mix Truck 12cy	Concrete from Lodi	40	282	0.4	650	16	Terminus Shaft to/from Lodi	13	26	Diesel	
Ti-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	1	0.6	2	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	1	0.6	1	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 7	Truck, Flatbed, 10T, Hwy	Excavator and Loader to Stockton	1	1	0.6	2	2.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 7	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	1	0.6	1	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 7	Truck, Flatbed, 10T, Hwy	Excavator, Forklift, and Crane from and to Stockton	2	4	0.6	6	3.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 7	Truck Flatbed 4 T Highway	Rebar from Sacramento	43	1	1.3	1	0	Terminus Shaft to/from Sacramento	40	80	Diesel	
Ti-Eastern - 7	Concrete Transit Mix Truck 12cy	Concrete from Lodi	43	5	0.4	12	0	Terminus Shaft to/from Lodi	13	26	Diesel	
Ti-Eastern - 8	Truck Flatbed 4 T Highway	Rebar from Sacramento	225	9	1.3	7	0	Terminus Shaft to/from Sacramento	40	80	Diesel	
Ti-Eastern - 8	Concrete Transit Mix Truck 12cy	Concrete from Lodi	225	210	0.4	484	2	Terminus Shaft to/from Lodi	13	26	Diesel	
Ti-Eastern - 9	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	1	0.6	1	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 9	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	1	0.6	2	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 10	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	1	0.6	2	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 11	Truck Flatbed 4 T Highway	Rebar from Sacramento	6	1	1.3	1	0.2	Terminus Shaft to/from Sacramento	40	80	Diesel	
Ti-Eastern - 11	Concrete Transit Mix Truck 12cy	Concrete from Lodi	6	210	0.4	484	81	Terminus Shaft to/from Lodi	13	26	Diesel	
Ti-Eastern - 12	Truck Flatbed 4 T Highway	Rebar from Sacramento	19	7	1.3	5	0.3	Terminus Shaft to/from Sacramento	40	80	Diesel	
Ti-Eastern - 13	Concrete Transit Mix Truck 12cy	Concrete from Lodi	30	169	0.4	393	13	Terminus Shaft to/from Lodi	13	26	Diesel	
Ti-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	1	0.6	1	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	1	0.6	2	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 14	Truck, Flatbed, 10T, Hwy	Excavator, Forklift, and two Cranes from and to Stockton	2	5	0.6	8	4.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site												
											Miles On-Site	
Ti-Eastern - 3	Highway Dump Truck 18 CY	Dumper	211	1436	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		7181	Diesel	
Ti-Eastern - 4	CAT 730 Rear Dumbo	Dumper	1	18.48	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		92	Diesel or Hybrid	
Ti-Eastern - 6	CAT 730 Rear Dump	Dumper	40	247	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1235	Diesel or Hybrid	
Ti-Eastern - 6	Articulated Rear Dumbo 22 CY/CAT 730	Dumper	40	247	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1235	Diesel or Hybrid	
Ti-Eastern - 6	Concrete Pump Truck	Off-Highway Truck	40	494	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2470	Diesel	
Ti-Eastern - 7	Highway Flatbed 10 Ton	Off-Highway Truck	43	16	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		80	Diesel	
Ti-Eastern - 8	Trucking Off Highway CAT 730	Dumpers	225	1242.05	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		6210	Diesel	
Ti-Eastern - 9	Concrete Pump Truck	Off-Highway Truck	18	75	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		380	Diesel	
Ti-Eastern - 14	Highway Flatbed 10 Ton	Off-Highway Truck	5	50	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		250	Diesel	

Employees Required to Terminusous - Eastern Tunnel Shaft
Options 2A, 2B

Code	Employee Type	Hours	# WorkDay		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
TI-Eastern - 1	General Foreman	15.54	10		Lodi to/from Terminusous Shaft	13
TI-Eastern - 1	Dozer Operator	31.08	10		Lodi to/from Terminusous Shaft	13
TI-Eastern - 1	Grader Operator	31.08	10		Lodi to/from Terminusous Shaft	13
TI-Eastern - 1	Operator G4 Grade Check	15.54	10		Lodi to/from Terminusous Shaft	13
TI-Eastern - 1	Scraper Operator	62.16	10		Lodi to/from Terminusous Shaft	13
TOTAL TI-Eastern-1						
TI-Eastern - 3	Grade Setter / Checker	1436.1	10		Lodi to/from Terminusous Shaft	13
TI-Eastern - 3	Water Truck Highway	1436.1	10		Lodi to/from Terminusous Shaft	13
TI-Eastern - 3	Compactor Operator	1436.1	10		Lodi to/from Terminusous Shaft	13
TI-Eastern - 3	Dozer Operator	1436.1	10		Lodi to/from Terminusous Shaft	13
TI-Eastern - 3	Grader Operator	1436.1	10		Lodi to/from Terminusous Shaft	13
TI-Eastern - 3	Truck Driver	1436.1	10		Lodi to/from Terminusous Shaft	13
TOTAL TI-Eastern-3						
TI-Eastern - 4	Shifter	6	10		Lodi to/from Terminusous Shaft	13
TI-Eastern - 4	Lead Miner	6	10		Lodi to/from Terminusous Shaft	13
TI-Eastern - 4	Miner	6	10		Lodi to/from Terminusous Shaft	13
TI-Eastern - 4	Loader Operator	6	10		Lodi to/from Terminusous Shaft	13
TI-Eastern - 4	Excavator Operator	6	10		Lodi to/from Terminusous Shaft	13
TI-Eastern - 4	Truck Driver	17.94	10		Lodi to/from Terminusous Shaft	13
TI-Eastern - 4	Carpenter	353.39	10		Lodi to/from Terminusous Shaft	13
TI-Eastern - 4	Carpenter Foreman	88.35	10		Lodi to/from Terminusous Shaft	13
TOTAL TI-Eastern-4						
TI-Eastern - 5	General Laborer	10.9	10		Lodi to/from Terminusous Shaft	13
TI-Eastern - 5	Carpenter	94.95	10		Lodi to/from Terminusous Shaft	13
TI-Eastern - 5	Carpenter Foreman	23.74	10		Lodi to/from Terminusous Shaft	13
TOTAL TI-Eastern-5						
TI-Eastern - 6	General Laborer	2717	24		Lodi to/from Terminusous Shaft	13
TI-Eastern - 6	General Foreman	494	24		Lodi to/from Terminusous Shaft	13
TI-Eastern - 6	Mechanic Welder	494	24		Lodi to/from Terminusous Shaft	13
TI-Eastern - 6	Shaft Crane Operator	494	24		Lodi to/from Terminusous Shaft	13
TI-Eastern - 6	Crane Oiler	494	24		Lodi to/from Terminusous Shaft	13
TI-Eastern - 6	Truck Driver	247	24		Lodi to/from Terminusous Shaft	13
TI-Eastern - 6	Shifter	741	24		Lodi to/from Terminusous Shaft	13
TI-Eastern - 6	Lead Miner	247	24		Lodi to/from Terminusous Shaft	13
TI-Eastern - 6	Miner	1976	24		Lodi to/from Terminusous Shaft	13
TI-Eastern - 6	Hyd Crane Operator	494	24		Lodi to/from Terminusous Shaft	13
TI-Eastern - 6	Loader Operator	247	24		Lodi to/from Terminusous Shaft	13
TI-Eastern - 6	Slurry Wall Consultant	247	24		Lodi to/from Terminusous Shaft	13
TI-Eastern - 6	Iron Worker Foreman	494	24		Lodi to/from Terminusous Shaft	13
TI-Eastern - 6	Iron Worker	2470	24		Lodi to/from Terminusous Shaft	13
TOTAL TI-Eastern-6						
TI-Eastern - 7	Loader Operator	235.5	24		Lodi to/from Terminusous Shaft	13
TI-Eastern - 7	Excavator Operator	235.5	24		Lodi to/from Terminusous Shaft	13
TI-Eastern - 7	General Laborer	735.78	24		Lodi to/from Terminusous Shaft	13
TI-Eastern - 7	General Foreman	235.5	24		Lodi to/from Terminusous Shaft	13
TI-Eastern - 7	Carpenter	33.2	24		Lodi to/from Terminusous Shaft	13
TI-Eastern - 7	Carpenter Foreman	8.3	24		Lodi to/from Terminusous Shaft	13
TI-Eastern - 7	Bullgang Foreman	16	24		Lodi to/from Terminusous Shaft	13
TI-Eastern - 7	Bullgang Laborer	32	24		Lodi to/from Terminusous Shaft	13
TI-Eastern - 7	Mechanic / Welder	16	24		Lodi to/from Terminusous Shaft	13
TI-Eastern - 7	Hyd Crane Operator	32	24		Lodi to/from Terminusous Shaft	13
TI-Eastern - 7	Flat Truck Driver	16	24		Lodi to/from Terminusous Shaft	13
TI-Eastern - 7	Excavator Operator	16	24		Lodi to/from Terminusous Shaft	13
TI-Eastern - 7	Iron Worker Foreman	12.68	24		Lodi to/from Terminusous Shaft	13
TI-Eastern - 7	Iron Worker	50.74	24		Lodi to/from Terminusous Shaft	13
TOTAL TI-Eastern-7						
TI-Eastern - 8	Diver Contractor	220	24		Lodi to/from Terminusous Shaft	13
TI-Eastern - 8	Shaft Crane Operator	248	24		Lodi to/from Terminusous Shaft	13
TI-Eastern - 8	Toplander	248	24		Lodi to/from Terminusous Shaft	13
TI-Eastern - 8	Crane Oiler	248	24		Lodi to/from Terminusous Shaft	13
TOTAL TI-Eastern-8						
TI-Eastern - 9	Diver Contractor	138.74	24		Lodi to/from Terminusous Shaft	13
TI-Eastern - 9	Shifter	166.12	24		Lodi to/from Terminusous Shaft	13
TI-Eastern - 9	Lead Miner	19.12	24		Lodi to/from Terminusous Shaft	13
TI-Eastern - 9	Miner	446.95	24		Lodi to/from Terminusous Shaft	13
TI-Eastern - 9	Hyd Crane Operator	188.94	24		Lodi to/from Terminusous Shaft	13

TI-Eastern - 9	Toplander	255	24	Lodi to/from Terminous Shaft	13
TI-Eastern - 9	Bottomlander	111	24	Lodi to/from Terminous Shaft	13
TI-Eastern - 9	Shaft Crane Operator	111	24	Lodi to/from Terminous Shaft	13
TI-Eastern - 9	Iron Worker Foreman	147	24	Lodi to/from Terminous Shaft	13
TI-Eastern - 9	Iron Worker	1176	24	Lodi to/from Terminous Shaft	13
TOTAL TI-Eastern-9					
TI-Eastern - 10	Shifter	100	24	Lodi to/from Terminous Shaft	13
TI-Eastern - 10	Lead Miner	100	24	Lodi to/from Terminous Shaft	13
TI-Eastern - 10	Miner	800	24	Lodi to/from Terminous Shaft	13
TI-Eastern - 10	Hyd Crane Operator	100	24	Lodi to/from Terminous Shaft	13
TOTAL TI-Eastern-10					
TI-Eastern - 11	Shifter	35.53	10	Lodi to/from Terminous Shaft	13
TI-Eastern - 11	Miner	120.27	10	Lodi to/from Terminous Shaft	13
TI-Eastern - 11	Shaft Crane Operator	35.53	10	Lodi to/from Terminous Shaft	13
TI-Eastern - 11	Toplander	35.53	10	Lodi to/from Terminous Shaft	13
TI-Eastern - 11	Crane Oiler	35.53	10	Lodi to/from Terminous Shaft	13
TI-Eastern - 11	Iron Worker	218.67	10	Lodi to/from Terminous Shaft	13
TI-Eastern - 11	Iron Worker Foreman	27.33	10	Lodi to/from Terminous Shaft	13
TI-Eastern - 11	Lead Miner	8.2	10	Lodi to/from Terminous Shaft	13
TI-Eastern - 11	Mechanic Welder	8.2	10	Lodi to/from Terminous Shaft	13
TI-Eastern - 11	Electrician	8.2	10	Lodi to/from Terminous Shaft	13
TOTAL TI-Eastern-11					
TI-Eastern - 12	Shaft Crane Operator	300	10	Lodi to/from Terminous Shaft	13
TI-Eastern - 12	Toplander	300	10	Lodi to/from Terminous Shaft	13
TI-Eastern - 12	Bottomlander	300	10	Lodi to/from Terminous Shaft	13
TI-Eastern - 12	Crane Oiler	300	10	Lodi to/from Terminous Shaft	13
TI-Eastern - 12	Iron Worker	2400	10	Lodi to/from Terminous Shaft	13
TI-Eastern - 12	Iron Worker Foreman	300	10	Lodi to/from Terminous Shaft	13
TOTAL TI-Eastern-12					
TI-Eastern - 13	Shifter	678	10	Lodi to/from Terminous Shaft	13
TI-Eastern - 13	Lead Miner	678	10	Lodi to/from Terminous Shaft	13
TI-Eastern - 13	Miner	5324	10	Lodi to/from Terminous Shaft	13
TI-Eastern - 13	Mechanic / Welder	390	10	Lodi to/from Terminous Shaft	13
TI-Eastern - 13	Shaft Crane Operator	678	10	Lodi to/from Terminous Shaft	13
TI-Eastern - 13	Toplander	678	10	Lodi to/from Terminous Shaft	13
TI-Eastern - 13	Bottomlander	102	10	Lodi to/from Terminous Shaft	13
TI-Eastern - 13	Crane Oiler	626	10	Lodi to/from Terminous Shaft	13
TI-Eastern - 13	Concrete Pump Operator	288	10	Lodi to/from Terminous Shaft	13
TOTAL TI-Eastern-13					
TI-Eastern - 14	Bullgang Foreman	50	10	Lodi to/from Terminous Shaft	13
TI-Eastern - 14	Bullgang Laborer	100	10	Lodi to/from Terminous Shaft	13
TI-Eastern - 14	Mechanic / Welder	50	10	Lodi to/from Terminous Shaft	13
TI-Eastern - 14	Hyd Crane Operator	100	10	Lodi to/from Terminous Shaft	13
TI-Eastern - 14	Flat Truck Driver	50	10	Lodi to/from Terminous Shaft	13
TOTAL TI-Eastern-14					

Marine Inventory for Terminous - Eastern Tunnel Shaft
Options 2A, 2B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Terminous - Eastern Tunnel Shaft
Options 2A, 2B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Terminous - Eastern Tunnel Shaft
Options 2A, 2B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Terminus - Eastern Tunnel Shaft
Options 2A, 2B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
Ti-Eastern - 1	13.3	5	3								
Ti-Eastern - 3		211				63210	300				
Ti-Eastern - 4		1		392	392						
Ti-Eastern - 5		2				218	109				
Ti-Eastern - 6		40		6175	154						
Ti-Eastern - 8		225		27325	121						

**Demolition Assumptions for Terminous - Eastern Tunnel Shaft
Options 2A, 2B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for King Island - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Road Base	KI-E Access -1	2/9/2027	2/11/2027	4	4	10
12 month maintenance	KI-E Access -2	4/4/2028	4/14/2028	9	5	10
12 month maintenance	KI-E Access -3	4/4/2029	4/14/2029	9	5	10

Acres 0.2

Offroad Equipment (Fossil Fuel) Inventory for King Island - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
KI-E Access -1	CAT 14 M	Grader	29.34	4	7	Diesel	274	0.41		
KI-E Access -1	Water Pump, 4" Diesel	Pump	29.34	4	7	Diesel	10	0.74		
KI-E Access -1	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	29.34	4	7	Diesel	156	0.38		
KI-E Access -2	CAT 14 M	Grader	281.6	9	31	Diesel	274	0.41		
KI-E Access -2	Water Pump, 4" Diesel	Pump	281.6	9	31	Diesel	10	0.74		
KI-E Access -3	CAT 14 M	Grader	281.6	9	31	Diesel	274	0.41		
KI-E Access -3	Water Pump, 4" Diesel	Pump	281.6	9	31	Diesel	10	0.74		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for King Island - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
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NOT NEEDED

Vehicle Inventory for King Island - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

[illegible]

**Employees Required to King Island - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B**

Code	Employee Type	Hours	# Work Hours/Day	Trip Location (to/from)	Commute Miles/ One-way Trip
KI-E Access -1	Laborer G3 Flagman	58.68	10	Stockton to/from King Shaft	13
KI-E Access -1	Operator G7 Roller, Compactor	29.34	10	Stockton to/from King Shaft	13
KI-E Access -1	OPERATING ENGINEER FOREMAN	29.34	10	Stockton to/from King Shaft	13
KI-E Access -1	Operator G4 Grade Check	29.34	10	Stockton to/from King Shaft	13
KI-E Access -1	Operator G2 Finish Blade	29.34	10	Stockton to/from King Shaft	13
KI-E Access -1	Operator G8 Generator	5.87	10	Stockton to/from King Shaft	13
KI-E Access -1	Teamster G2 Hwy ED 6-8cy, Wate	29.34	10	Stockton to/from King Shaft	13
TOTAL KI-E Access-1					
KI-E Access -2	OPERATING ENGINEER FOREMAN	28.16	10	Stockton to/from King Shaft	13
KI-E Access -2	Operator G2 Finish Blade	28.16	10	Stockton to/from King Shaft	13
KI-E Access -2	Operator G8 Generator	56.32	10	Stockton to/from King Shaft	13
KI-E Access -2	Teamster G2 Hwy ED 6-8cy, Water<7	281.6	10	Stockton to/from King Shaft	13
TOTAL KI-E Access-2					
KI-E Access -3	OPERATING ENGINEER FOREMAN	28.16	10	Stockton to/from King Shaft	13
KI-E Access -3	Operator G2 Finish Blade	28.16	10	Stockton to/from King Shaft	13
KI-E Access -3	Operator G8 Generator	56.32	10	Stockton to/from King Shaft	13
KI-E Access -3	Teamster G2 Hwy ED 6-8cy, Water<7	281.6	10	Stockton to/from King Shaft	13
TOTAL KI-E Access-3					

Marine Inventory for King Island - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for King Island - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

Helicopter Inventory for King Island - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for King Island - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
KI-E Access -1	0.2	4	0.1			2347	587				
KI-E Access -2		9				14080	1564				
KI-E Access -3		9				14080	1564				

Demolition Assumptions for King Island - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

**Construction Schedule for King I - Eastern Tunnel Shaft
Options 2A, 2B**

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Clear and Grub	KI-Eastern - 1	2/27/2030	3/19/2030	15	5	10
Ground Improvement	KI-Eastern - 2	4/10/2030	5/14/2030	25	5	10
Raise Shaft Pad	KI-Eastern - 3	5/15/2030	5/13/2031	263	5	10
Excavate, Set Strips, & Place Guide Wall	KI-Eastern - 4	5/14/2031	5/29/2031	12	5	10
Place Guide Walls Concrete	KI-Eastern - 5	5/30/2031	6/2/2031	4	4	10
Excavate Slurry Wall & Place Concrete & Rebar	KI-Eastern - 6	6/3/2031	7/10/2031	38	7	24
Slurry Wall including Strip Forms and Place Rebar	KI-Eastern - 7	7/11/2031	8/22/2031	43	7	24
Excavate Shaft	KI-Eastern - 8	8/25/2031	10/1/2031	38	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	KI-Eastern - 9	10/2/2031	10/15/2031	14	7	24
Dewater Shaft	KI-Eastern - 10	10/16/2031	10/22/2031	7	7	24
Place TBM Cradle Rebar and Cradle Pour	KI-Eastern - 11	10/23/2031	10/30/2031	6	5	10
Breakout Slurry Wall for TBM	KI-Eastern - 12	10/31/2031	11/26/2031	19	5	10
Assemble & Place Buttress, Form, & Concrete for	KI-Eastern - 13	10/31/2031	2/19/2032	70	5	10
Place Shaft Cover	KI-Eastern - 14	2/19/2032	2/27/2032	6	5	10

Total Site Acres

12

Offroad Equipment (Fossil Fuel) Inventory for King I - Eastern Tunnel Shaft
Options 2A, 2B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
KI-Eastern - 1	CAT D8 Dozer	Crawler Tractor	22.26	15	1	Diesel Tier 4 or Hybrid Diesel	179	0.43		
KI-Eastern - 1	CAT Grader 16H - 16' Blade	Grader	22.26	15	1	Diesel	285	0.41		
KI-Eastern - 1	623G Scraper Elevate 21 CY	Scraper	44.52	15	3	Diesel	359	0.48		
KI-Eastern - 3	CAT CB-634D Vibratory 84"	Rollers	1784.15	263	7	Diesel	145	0.38		
KI-Eastern - 3	CAT Grader 16H	Graders	1784.15	263	7	Diesel	285	0.41		
KI-Eastern - 3	CAT D8 Dozer	Crawler Tractor	1784.15	263	7	Diesel	328	0.43		
KI-Eastern - 4	CAT Hyd Excavator 1CY	Excavator	6	12	1	Diesel	138	0.38		
KI-Eastern - 4	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	6	12	1	Diesel or Hybrid	130	0.36		
KI-Eastern - 6	1600 CFM Compressor Diesel	Air Compressor	211	38	6	Diesel Tier 4	540	0.48		
KI-Eastern - 6	Hydraulic 55 Ton Crane	Crane	422	38	11	Diesel	350	0.29		
KI-Eastern - 6	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	211	38	6	Diesel or Hybrid	130	0.36		
KI-Eastern - 6	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	211	38	6	Diesel	8	0.56		
KI-Eastern - 6	Slurry Wall Techniwell	Pumps	211	38	6	Diesel	500	0.74		
KI-Eastern - 6	Manitowoc 777 200 Ton Crane	Crane	422	38	11	Diesel	760	0.29		
KI-Eastern - 7	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	235.5	43	5	Diesel or Hybrid	130	0.36		
KI-Eastern - 7	250 CFM Compressor Diesel	Air Compressor	4	43	0.1	Diesel Tier 3	75	0.48		
KI-Eastern - 7	Hydraulic Excavator to 3.5	Excavator	235.5	43	5	Diesel	138	0.38		
KI-Eastern - 7	CAT Hyd Excavator 1CY	Excavator	235.5	43	5	Diesel	138	0.38		
KI-Eastern - 8	Manitowoc 777 200 Ton Crane	Crane	231	38	6	Diesel	760	0.29		
KI-Eastern - 9	Manitowoc 777 200 Ton Crane	Crane	111	14	8	Diesel	760	0.29		
KI-Eastern - 9	Hydraulic 40 Ton Crane	Crane	36	14	3	Diesel	300	0.29		
KI-Eastern - 9	Hydraulic 25 Ton Crane	Crane	76.47	14	5	Diesel	100	0.29		
KI-Eastern - 10	Dewater Pump 6"	Pump	400	7	57	Diesel	50	0.74		
KI-Eastern - 10	150 KW Diesel Generator	Generator	100	7	14	Diesel Tier 4	183	0.74		
KI-Eastern - 10	Hydraulic 15 Ton Crane	Crane	100	7	14	Diesel	100	0.29		
KI-Eastern - 11	Manitowoc 777 200 Ton Crane	Crane	35.53	6	6	Diesel	760	0.29		
KI-Eastern - 11	250 CFM Compressor Diesel	Air Compressor	8.2	6	1	Diesel Tier 3	75	0.48		
KI-Eastern - 11	Trailer Conc Pump 100 CY HR	Pump	8.2	6	1	Diesel	200	0.74		
KI-Eastern - 12	250 CFM Compressor Diesel	Air Compressor	118.67	19	6	Diesel Tier 3	75	0.48		
KI-Eastern - 12	Manitowoc 777 200 Ton Crane	Crane	118.67	19	6	Diesel	760	0.29		
KI-Eastern - 13	250 CFM Compressor Diesel	Air Compressor	699.99	70	10	Diesel Tier 3	75	0.48		
KI-Eastern - 13	Trailer Conc Pump 100 CY HR	Pump	321.16	70	5	Diesel	200	0.74		
KI-Eastern - 13	Manitowoc 777 200 Ton Crane	Crane	102	70	1	Diesel	760	0.29		
KI-Eastern - 13	Manitowoc 999-275 Ton Crane	Crane	128.38	70	2	Diesel	900	0.29		
KI-Eastern - 13	Hydraulic 9 Ton Crane	Crane	264.8	70	4	Diesel	85	0.29		
KI-Eastern - 14	Hydraulic 9 Ton Crane	Crane	40	6	7	Diesel	85	0.29		
KI-Eastern - 14	Hydraulic 40 Ton Crane	Crane	40	6	7	Diesel	300	0.29		
KI-Eastern - 14	CAT Forklift 5,500 LB	Aerial Lift	40	6	7	Diesel	63	0.31		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for King Island - Eastern Tunnel Shaft
Options 2A, 2B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
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NOT NEEDED

Vehicle Inventory for King Island - Eastern Tunnel Shaft
Options 2A, 2B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/dry) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
KI-Eastern - 1	Truck, Flatbed, 10T, Hwy	Scraper to and from Stockton	2	0.9	0.4	2	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 1	Truck, Flatbed, 10T, Hwy	Dozer and Grader from Stockton	1	0.4	0.4	1	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 2	Truck, Flatbed, 10T, Hwy	Materials from Stockton	25	24.7	0.4	57	2.3	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 3	Highway Dump Truck 18 CY	Materials from Stockton	263	1436.1	0.4	3314	13	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 3	Truck End Dumper 16-20cy Hwy	Soil Material in Covered Trucks from Twin Cities Concrete	263	4533.5	0.9	5231	20	King I Shaft to/from Twin Cities Concrete	26	52	Diesel	
KI-Eastern - 3	Truck, Flatbed, 10T, Hwy	Roller to and from Stockton	2	0.9	0.4	2	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 3	Truck, Flatbed, 10T, Hwy	Dozer and Grader to Stockton	1	0.4	0.4	1	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 4	Truck, Flatbed, 10T, Hwy	Excavator and Loader from Stockton	1	0.9	0.4	2	2.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 4	Truck Flatbed 4 T Highway	Rebar from Sacramento	12	1.4	1.4	1	0	King I Shaft to/from Sacramento	43	86	Diesel	
KI-Eastern - 4	Concrete Transit Mix Truck 12cy	Concrete from Lambert Rd	12	19.9	0.9	23	2	King I Shaft to/from Lambert Road Concrete Batch Plant	26	52	Diesel	
KI-Eastern - 5	Concrete Transit Mix Truck 12cy	Concrete from Lambert Rd	4	481.0	0.9	555	139	King I Shaft to/from Lambert Road Concrete Batch Plant	26	52	Diesel	
KI-Eastern - 6	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	38	279.5	1.4	195	5	King I Shaft to/from Sacramento	43	86	Diesel	
KI-Eastern - 6	Truck Flatbed 4 T Highway	Rebar from Sacramento	38	34.4	1.4	24	1	King I Shaft to/from Sacramento	43	86	Diesel	
KI-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	0.9	0.4	2	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	0.4	0.4	1	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 7	Truck, Flatbed, 10T, Hwy	Excavator and Loader to Stockton	1	0.9	0.4	2	2.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 7	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	0.4	0.4	1	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 7	Truck Flatbed 4 T Highway	Rebar from Sacramento	43	1.4	1.4	1	0	King I Shaft to/from Sacramento	43	86	Diesel	
KI-Eastern - 7	Concrete Transit Mix Truck 12cy	Concrete from Lambert Rd	43	9.5	0.9	11	0	King I Shaft to/from Lambert Road Concrete Batch Plant	26	52	Diesel	
KI-Eastern - 9	Truck Flatbed 4 T Highway	Rebar from Sacramento	14	10.0	1.4	7	1	King I Shaft to/from Sacramento	43	86	Diesel	
KI-Eastern - 9	Concrete Transit Mix Truck 12cy	Concrete from Lambert Rd	14	419.5	0.9	484	35	King I Shaft to/from Lambert Road Concrete Batch Plant	26	52	Diesel	
KI-Eastern - 9	Truck, Flatbed, 10T, Hwy	Two Cranes to and from Stockton	2	1.7	0.4	4	2.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 10	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	0.9	0.4	2	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 11	Truck Flatbed 4 T Highway	Rebar from Sacramento	6	1.4	1.4	1	0.2	King I Shaft to/from Sacramento	43	86	Diesel	
KI-Eastern - 11	Concrete Transit Mix Truck 12cy	Concrete from Lambert Rd	6	30.3	0.9	35	6	King I Shaft to/from Lambert Road Concrete Batch Plant	26	52	Diesel	
KI-Eastern - 12	Truck Flatbed 4 T Highway	Rebar from Sacramento	19	2.9	1.4	2	0.1	King I Shaft to/from Sacramento	43	86	Diesel	
KI-Eastern - 13	Concrete Transit Mix Truck 12cy	Concrete from Lambert Rd	70	316.3	0.9	365	5	King I Shaft to/from Lambert Road Concrete Batch Plant	26	52	Diesel	
KI-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	0.4	0.4	1	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	0.9	0.4	2	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 14	Truck, Flatbed, 10T, Hwy	Forklift from and to Stockton	1	0.9	0.4	2	2.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 14	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	0.4	0.4	1	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 14	Truck, Flatbed, 10T, Hwy	Materials from Stockton	6	0.4	0.4	1	0.2	King I Shaft to/from Stockton	13	26	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site										Miles On-Site		
KI-Eastern - 3	Highway Dump Truck 18 CY	Dumper	263	1784.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		8923	Diesel	
KI-Eastern - 4	CAT 730 Rear Dump	Dumper	12	18.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		92	Diesel or Hybrid	
KI-Eastern - 6	CAT 730 Rear Dumper	Dumper	38	240.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1203	Diesel or Hybrid	
KI-Eastern - 6	Articulated Rear Dump 22 CY/CAT 730	Dumper	38	211.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1055	Diesel or Hybrid	
KI-Eastern - 6	Concrete Pump Truck	Off-Highway Truck	38	422.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2310	Diesel	
KI-Eastern - 8	Trucking Off-Highway CAT 730	Dumper	38	1155.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		5775	Diesel	
KI-Eastern - 9	Concrete Pump Truck	Off-Highway Truck	14	76.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		380	Diesel	
KI-Eastern - 13	Highway Flatbed 10 Ton	Off-Highway Truck	70	60.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		300	Diesel	
KI-Eastern - 14	Highway Flatbed 10 Ton	Off-Highway Truck	6	40.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		300	Diesel	

Employees Required to King Island - Eastern Tunnel Shaft Options 2A, 2B

Code	Employee Type	Hours	# WorkDay		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
KI-Eastern - 1	General Foreman	11.13	10		Stockton to/from King I Shaft	13
KI-Eastern - 1	Dozer Operator	22.26	10		Stockton to/from King I Shaft	13
KI-Eastern - 1	Grader Operator	22.26	10		Stockton to/from King I Shaft	13
KI-Eastern - 1	Operator G4 Grade Check	11.13	10		Stockton to/from King I Shaft	13
KI-Eastern - 1	Scraper Operator	44.52	10		Stockton to/from King I Shaft	13
TOTAL KI-Eastern-1						
KI-Eastern - 3	Grade Setter / Checker	1784.15	10		Stockton to/from King I Shaft	13
KI-Eastern - 3	Water Truck Highway	1784.15	10		Stockton to/from King I Shaft	13
KI-Eastern - 3	Compactor Operator	1784.15	10		Stockton to/from King I Shaft	13
KI-Eastern - 3	Dozer Operator	1784.15	10		Stockton to/from King I Shaft	13
KI-Eastern - 3	Grader Operator	1784.15	10		Stockton to/from King I Shaft	13
KI-Eastern - 3	Truck Driver	1784.15	10		Stockton to/from King I Shaft	13
TOTAL KI-Eastern-3						
KI-Eastern - 4	Shifter	6	10		Stockton to/from King I Shaft	13
KI-Eastern - 4	Lead Miner	6	10		Stockton to/from King I Shaft	13
KI-Eastern - 4	Miner	6	10		Stockton to/from King I Shaft	13
KI-Eastern - 4	Loader Operator	6	10		Stockton to/from King I Shaft	13
KI-Eastern - 4	Excavator Operator	6	10		Stockton to/from King I Shaft	13
KI-Eastern - 4	Truck Driver	17.94	10		Stockton to/from King I Shaft	13
KI-Eastern - 4	Carpenter	353.39	10		Stockton to/from King I Shaft	13
KI-Eastern - 4	Carpenter Foreman	88.35	10		Stockton to/from King I Shaft	13
TOTAL KI-Eastern-4						
KI-Eastern - 5	General Laborer	10.9	10		Stockton to/from King I Shaft	13
KI-Eastern - 5	Carpenter	94.95	10		Stockton to/from King I Shaft	13
KI-Eastern - 5	Carpenter Foreman	23.74	10		Stockton to/from King I Shaft	13
TOTAL KI-Eastern-5						
KI-Eastern - 6	General Laborer	2321	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	General Foreman	422	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Mechanic Welder	422	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Shaft Crane Operator	422	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Crane Oiler	422	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Truck Driver	240.54	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Shifter	633	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Lead Miner	211	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Miner	1688	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Hyd Crane Operator	422	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Loader Operator	211	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Slurry Wall Consultant	211	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Iron Worker Foreman	422	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Iron Worker	2110	24		Stockton to/from King I Shaft	13
TOTAL KI-Eastern-6						
KI-Eastern - 7	Loader Operator	235.5	24		Stockton to/from King I Shaft	13
KI-Eastern - 7	Excavator Operator	235.5	24		Stockton to/from King I Shaft	13
KI-Eastern - 7	General Laborer	735.9	24		Stockton to/from King I Shaft	13
KI-Eastern - 7	General Foreman	235.5	24		Stockton to/from King I Shaft	13
KI-Eastern - 7	Carpenter	36.8	24		Stockton to/from King I Shaft	13
KI-Eastern - 7	Carpenter Foreman	9.2	24		Stockton to/from King I Shaft	13
KI-Eastern - 7	Iron Worker Foreman	12.68	24		Stockton to/from King I Shaft	13
KI-Eastern - 7	Iron Worker	50.74	24		Stockton to/from King I Shaft	13
TOTAL KI-Eastern-7						
KI-Eastern - 8	Diver Contractor	220	24		Stockton to/from King I Shaft	13
KI-Eastern - 8	Shaft Crane Operator	231	24		Stockton to/from King I Shaft	13
KI-Eastern - 8	Toplander	231	24		Stockton to/from King I Shaft	13
KI-Eastern - 8	Crane Oiler	231	24		Stockton to/from King I Shaft	13
TOTAL KI-Eastern-8						
KI-Eastern - 9	Diver Contractor	138.74	24		Stockton to/from King I Shaft	13
KI-Eastern - 9	Shifter	166.12	24		Stockton to/from King I Shaft	13
KI-Eastern - 9	Lead Miner	19.12	24		Stockton to/from King I Shaft	13
KI-Eastern - 9	Miner	446.95	24		Stockton to/from King I Shaft	13
KI-Eastern - 9	Hyd Crane Operator	112.47	24		Stockton to/from King I Shaft	13
KI-Eastern - 9	Toplander	255	24		Stockton to/from King I Shaft	13
KI-Eastern - 9	Bottomlander	111	24		Stockton to/from King I Shaft	13
KI-Eastern - 9	Shaft Crane Operator	111	24		Stockton to/from King I Shaft	13
KI-Eastern - 9	Iron Worker Foreman	147	24		Stockton to/from King I Shaft	13
KI-Eastern - 9	Iron Worker	1176	24		Stockton to/from King I Shaft	13
TOTAL KI-Eastern-9						

KI-Eastern - 10	Shifter	100	24	Stockton	to/from King I Shaft	13
KI-Eastern - 10	Lead Miner	100	24	Stockton	to/from King I Shaft	13
KI-Eastern - 10	Miner	800	24	Stockton	to/from King I Shaft	13
KI-Eastern - 10	Hyd Crane Operator	100	24	Stockton	to/from King I Shaft	13
TOTAL KI-Eastern-10						
KI-Eastern - 11	Shifter	35.53	10	Stockton	to/from King I Shaft	13
KI-Eastern - 11	Miner	120.27	10	Stockton	to/from King I Shaft	13
KI-Eastern - 11	Shaft Crane Operator	35.53	10	Stockton	to/from King I Shaft	13
KI-Eastern - 11	Toplander	35.53	10	Stockton	to/from King I Shaft	13
KI-Eastern - 11	Crane Oiler	35.53	10	Stockton	to/from King I Shaft	13
KI-Eastern - 11	Iron Worker	216	10	Stockton	to/from King I Shaft	13
KI-Eastern - 11	Iron Worker Foreman	27.33	10	Stockton	to/from King I Shaft	13
KI-Eastern - 11	Lead Miner	8.2	10	Stockton	to/from King I Shaft	13
KI-Eastern - 11	Mechanic Welder	8.2	10	Stockton	to/from King I Shaft	13
KI-Eastern - 11	Electrician	8.2	10	Stockton	to/from King I Shaft	13
TOTAL KI-Eastern-11						
KI-Eastern - 12	Shaft Crane Operator	118.67	10	Stockton	to/from King I Shaft	13
KI-Eastern - 12	Toplander	118.67	10	Stockton	to/from King I Shaft	13
KI-Eastern - 12	Bottomlander	118.67	10	Stockton	to/from King I Shaft	13
KI-Eastern - 12	Crane Oiler	118.67	10	Stockton	to/from King I Shaft	13
KI-Eastern - 12	Iron Worker	949.36	10	Stockton	to/from King I Shaft	13
KI-Eastern - 12	Iron Worker Foreman	118.67	10	Stockton	to/from King I Shaft	13
TOTAL KI-Eastern-12						
KI-Eastern - 13	Shifter	700	10	Stockton	to/from King I Shaft	13
KI-Eastern - 13	Electric Welder 400 AMP	204.8	10	Stockton	to/from King I Shaft	13
KI-Eastern - 13	Electrician	265	10	Stockton	to/from King I Shaft	13
KI-Eastern - 13	Hyd Crane Operator	60	10	Stockton	to/from King I Shaft	13
KI-Eastern - 13	Lead Miner	699.99	10	Stockton	to/from King I Shaft	13
KI-Eastern - 13	Miner	4680.75	10	Stockton	to/from King I Shaft	13
KI-Eastern - 13	Mechanic / Welder	840.49	10	Stockton	to/from King I Shaft	13
KI-Eastern - 13	Shaft Crane Operator	230	10	Stockton	to/from King I Shaft	13
KI-Eastern - 13	Toplander	230	10	Stockton	to/from King I Shaft	13
KI-Eastern - 13	Bottomlander	102	10	Stockton	to/from King I Shaft	13
KI-Eastern - 13	Crane Oiler	178	10	Stockton	to/from King I Shaft	13
KI-Eastern - 13	Concrete Pump Operator	64.3	10	Stockton	to/from King I Shaft	13
TOTAL KI-Eastern-13						
KI-Eastern - 14	Bullgang Foreman	40	10	Stockton	to/from King I Shaft	13
KI-Eastern - 14	Bullgang Laborer	80	10	Stockton	to/from King I Shaft	13
KI-Eastern - 14	Mechanic / Welder	40	10	Stockton	to/from King I Shaft	13
KI-Eastern - 14	Hyd Crane Operator	80	10	Stockton	to/from King I Shaft	13
KI-Eastern - 14	Flat Truck Driver	40	10	Stockton	to/from King I Shaft	13
TOTAL KI-Eastern-14						

Marine Inventory for King I - Eastern Tunnel Shaft
Options 2A, 2B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for King I - Eastern Tunnel Shaft
Options 2A, 2B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for King I - Eastern Tunnel Shaft
Options 2A, 2B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for King 1 - Eastern Tunnel Shaft
Options 2A, 2B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
KI-Eastern - 1	12	15	1								
KI-Eastern - 3		263				78458	298				
KI-Eastern - 4		12		392	33						
KI-Eastern - 5		4				218	55				
KI-Eastern - 6		38		5268	139	5268	139				
KI-Eastern - 7		43				104	2				
KI-Eastern - 8		38		25420	669						
KI-Eastern - 9		14				4592	328				
KI-Eastern - 11		6				328	55				
KI-Eastern - 13		70				3420	49				

**Demolition Assumptions for King I - Eastern Tunnel Shaft
Options 2A, 2B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Lower Roberts I Levee - Eastern
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Construct Levee	LR I Levee-E -1	9/13/2028	11/21/2028	49	5	10

Offroad Equipment (Fossil Fuel) Inventory for Lower Roberts I Levee - Eastern
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
LR I Levee-E -1	CAT 825H Compactor	Roller	48.56	49	1	Diesel	315	0.38		
LR I Levee-E -1	CAT Grader 16H	Grader	48.56	49	1	Diesel	285	0.41		
LR I Levee-E -1	CAT D8 Dozer	Crawler Tractor	97.13	49	2	Diesel	328	0.43		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Lower Roberts I Levee - Eastern
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
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NOT NEEDED

Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Vehicle Use on Paved Roads --- and Not on Constr

Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site

**Employees Required to Lower Roberts I Levee - Eastern
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B**

[illegible]

Marine Inventory for Lower Roberts I Levee - Eastern
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Lower Roberts I Levee - Eastern
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Lower Roberts I Levee - Eastern
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Lower Roberts I Levee - Eastern
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
LR I Levee-E -1	30	49	0.6			36424	743				

**Demolition Assumptions for Lower Roberts I Levee - Eastern
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Lower Roberts I - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	Lower Roberts I - E Access -1	5/12/2026	6/5/2026	19	5	10
Embankment	Lower Roberts I - E Access -2	6/8/2026	7/15/2026	28	5	10
Culvert Pipe	Lower Roberts I - E Access -3	7/16/2026	7/21/2026	5	5	10
Bridge over Turner Cut	Lower Roberts I - E Access -4	7/16/2026	8/27/2026	31	5	10
Subdrain System	Lower Roberts I - E Access -5	7/22/2026	9/15/2026	40	5	10
Road Base	Lower Roberts I - E Access -6	9/16/2026	10/21/2026	26	5	10
Bridge over Burns Cut	Lower Roberts I - E Access -7	9/16/2026	2/8/2027	104	5	10
Asphalt Paving	Lower Roberts I - E Access -8	1/5/2027	2/8/2027	25	5	10
KRail and Signs	Lower Roberts I - E Access -9	2/10/2027	2/11/2027	2	2	10
Intermediate Overlay	Lower Roberts I - E Access -10	4/15/2030	5/10/2030	20	5	10
Final Overlay	Lower Roberts I - E Access -11	12/6/2038	12/20/2038	11	5	10

Acres **31**

Offroad Equipment (Fossil Fuel) Inventory for Lower Roberts I - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
Lower Roberts I - E Access -1	CAT D6LGPDozer w winch	Crawler Tractor	368.84	19	19	Diesel Tier 4 or Hybrid Dies	179	0.43		
Lower Roberts I - E Access -1	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	184.42	19	10	Diesel	384	0.38		
Lower Roberts I - E Access -2	CAT D6LGPDozer w winch	Crawler Tractor	270.17	28	10	Diesel Tier 4 or Hybrid Dies	179	0.43		
Lower Roberts I - E Access -2	Disk, Towed	Off-Highway Tractor	270.17	28	10	Diesel	140	0.44		
Lower Roberts I - E Access -2	CAT 14 M	Grader	135.09	28	5	Diesel	274	0.41		
Lower Roberts I - E Access -2	Water Pump, 4" Diesel	Pumps	32.42	28	1	Diesel	10	0.74		
Lower Roberts I - E Access -2	CAT 815, Roller	Roller	270.17	28	10	Diesel	170	0.38		
Lower Roberts I - E Access -3	Air Compressor 375 cfm	Air Compressor	31.67	5	6	Diesel Tier 4	122	0.48		
Lower Roberts I - E Access -3	CAT LOADER/HOE 416 E	Rubber Tired Loader	63.33	5	13	Diesel	78	0.36		
Lower Roberts I - E Access -3	Compactor, Plate, 22"w x 35"	Plate Compactor	31.67	5	6	Diesel	8.5	0.43		
Lower Roberts I - E Access -4	Grove RT Crane 55T, 247 hp	Crane	303.03	31	10	Diesel	247	0.29		
Lower Roberts I - E Access -4	Manitowoc 555 150T, 250' Boom	Crane	303.03	31	10	Diesel	340	0.29		
Lower Roberts I - E Access -5	CAT LOADER/HOE 416 E	Rubber Tired Loader	97.81	40	2	Diesel	78	0.36		
Lower Roberts I - E Access -5	Compactor, Trench Roller, Vib 32"w	Roller	195.63	40	5	Diesel	20	0.38		
Lower Roberts I - E Access -6	CAT 14 M	Grader	258.86	26	10	Diesel	274	0.41		
Lower Roberts I - E Access -6	Water Pump, 4" Diesel	Pumps	258.86	26	10	Diesel	10	0.74		
Lower Roberts I - E Access -6	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	258.86	26	10	Diesel	156	0.38		
Lower Roberts I - E Access -4	Grove RT Crane 55T, 247 hp	Crane	1030.3	104	10	Diesel	247	0.29		
Lower Roberts I - E Access -4	Manitowoc 555 150T, 250' Boom	Crane	1030.3	104	10	Diesel	340	0.29		
Lower Roberts I - E Access -8	CAT LOADER/HOE 416 E	Rubber Tired Loader	246.56	25	10	Diesel	78	0.36		
Lower Roberts I - E Access -8	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	246.56	25	10	Diesel or Hybrid	224	0.42		
Lower Roberts I - E Access -8	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	246.56	25	10	Diesel or Hybrid	137	0.38		
Lower Roberts I - E Access -8	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	246.56	25	10	Diesel or Hybrid	133	0.38		
Lower Roberts I - E Access -9	Boom Truck, 12.5 Tn Boom	Crane	11.67	2	6	Diesel or Hybrid	100	0.29		
Lower Roberts I - E Access -9	CAT LOADER/HOE 416 E	Rubber Tired Loader	11.67	2	6	Diesel	78	0.36		
Lower Roberts I - E Access -10	CAT LOADER/HOE 416 E	Rubber Tired Loader	95.17	20	5	Diesel	78	0.36		
Lower Roberts I - E Access -10	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	95.17	20	5	Diesel or Hybrid	224	0.42		
Lower Roberts I - E Access -10	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	95.17	20	5	Diesel or Hybrid	137	0.38		
Lower Roberts I - E Access -10	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	95.17	20	5	Diesel or Hybrid	133	0.38		
Lower Roberts I - E Access -11	CAT LOADER/HOE 416 E	Rubber Tired Loader	95.17	11	9	Diesel	78	0.36		
Lower Roberts I - E Access -11	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	95.17	11	9	Diesel or Hybrid	224	0.42		
Lower Roberts I - E Access -11	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	95.17	11	9	Diesel or Hybrid	137	0.38		
Lower Roberts I - E Access -11	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	95.17	11	9	Diesel or Hybrid	133	0.38		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Lower Roberts I - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
Lower Roberts I - E Access -2	Light Plant, 4 lite, 1000w	1080.7	28		

Vehicle Inventory for Lower Roberts I - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. office)	# day	Vehicle Hours	Hours/trip	# of Vehicles/trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/mile) (if known)	Fuel (gal/day) (if known)
Vehicle Use on Paved Roads — and Not on Construction Site													
Lower Roberts I - E Access -1	Pickup, 1/2T, 2wd	Materials from Stockton	19	92	0.6	146	8	Stockton to/from Lower Roberts Island	19	38	Hybrid Gasoline		
Lower Roberts I - E Access -1	Truck, Water, 4 med, Hwy	Water from Lodi	19	43	0.5	92	5	Lodi to/from Lower Roberts Island	14	28	Diesel		
Lower Roberts I - E Access -1	Truck, Flatbed, 10T, Hwy	Doser from Stockton	1	1	0.6	1	1.0	Stockton to/from Lower Roberts Island	19	38	Diesel		
Lower Roberts I - E Access -1	Truck, Flatbed, 10T, Hwy	Excavator to and from Stockton	2	1	0.6	2	1.0	Stockton to/from Lower Roberts Island	19	38	Diesel		
Lower Roberts I - E Access -1	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	19	1558	0.6	2460	129	Stockton to/from Lower Roberts Island	19	38	Diesel		
Lower Roberts I - E Access -1	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	19	49	0.6	77	4	Stockton to/from Lower Roberts Island	19	38	Diesel		
Lower Roberts I - E Access -2	Pickup, 1/2T, 2wd	Materials from Stockton	28	270	0.6	427	15	Stockton to/from Lower Roberts Island	19	38	Hybrid Gasoline		
Lower Roberts I - E Access -2	Cat 10mgln w/Cat 770, 519HP	Materials from Stockton	28	135	0.6	213	8	Stockton to/from Lower Roberts Island	19	38	Diesel		
Lower Roberts I - E Access -2	Truck, Flatbed, 10T, Hwy	Doser to Stockton	1	1	0.6	1	1.0	Stockton to/from Lower Roberts Island	19	38	Diesel		
Lower Roberts I - E Access -2	Truck, Flatbed, 10T, Hwy	Gravel to and from Stockton	2	1	0.6	2	1.0	Stockton to/from Lower Roberts Island	19	38	Diesel		
Lower Roberts I - E Access -2	Truck, Flatbed, 10T, Hwy	Roller to and from Stockton	2	1	0.6	1	0.5	Stockton to/from Lower Roberts Island	19	38	Diesel		
Lower Roberts I - E Access -2	Truck, Water, 4 med, Hwy	Water from Lodi	28	48	0.5	1356	48	Lodi to/from Lower Roberts Island	14	28	Diesel		
Lower Roberts I - E Access -2	Truck/ End Dump/ 16-20cy/ Hwy	Gravel from Vernalis	28	2887	0.9	3354	111	Vernalis to/from Lower Roberts Island	28	56	Diesel		
Lower Roberts I - E Access -3	Truck, Flatbed, 10T, Hwy	Materials from Stockton	5	32	0.6	50	10	Stockton to/from Lower Roberts Island	19	38	Diesel		
Lower Roberts I - E Access -3	Truck, Flatbed, 10T, Hwy	Loader from Stockton	1	1	0.6	1	1.0	Stockton to/from Lower Roberts Island	19	38	Diesel		
Lower Roberts I - E Access -3	Truck, Flatbed, 10T, Hwy	Plate Compactor to and from Stockton	2	1	0.6	2	1.0	Stockton to/from Lower Roberts Island	19	38	Diesel		
Lower Roberts I - E Access -4	Pickup, 1/2T, 2wd	Materials from Stockton	31	303	0.6	478	15.4	Stockton to/from Lower Roberts Island	19	38	Hybrid Gasoline		
Lower Roberts I - E Access -4	Truck, Flatbed, 4T, Hwy	Materials from Stockton	31	303	0.6	478	15.4	Stockton to/from Lower Roberts Island	19	38	Diesel		
Lower Roberts I - E Access -4	Truck, Flatbed, 10T, Hwy	Two Cranes from and to Stockton	2	3	0.6	4	2.0	Stockton to/from Lower Roberts Island	19	38	Diesel		
Lower Roberts I - E Access -4	Truck/ End Dump/ 16-20cy/ Hwy	Gravel from Vernalis	31	6	0.9	6	0	Vernalis to/from Lower Roberts Island	28	56	Diesel		
Lower Roberts I - E Access -5	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	40	196	0.6	309	8	Stockton to/from Lower Roberts Island	19	38	Diesel		
Lower Roberts I - E Access -5	Truck, Flatbed, 10T, Hwy	Roller to and from Stockton	2	1	0.6	2	1.0	Stockton to/from Lower Roberts Island	19	38	Diesel		
Lower Roberts I - E Access -5	Truck, Flatbed, 10T, Hwy	Roller to and from Stockton	2	1	0.6	2	1.0	Stockton to/from Lower Roberts Island	19	38	Diesel		
Lower Roberts I - E Access -5	Truck/ End Dump/ 16-20cy/ Hwy	Gravel from Vernalis	40	25	0.9	27	1	Vernalis to/from Lower Roberts Island	28	56	Diesel		
Lower Roberts I - E Access -6	Pickup, 3/4T, 4wd	Materials from Stockton	26	259	0.6	409	16	Stockton to/from Lower Roberts Island	19	38	Hybrid Gasoline		
Lower Roberts I - E Access -6	Truck/ End Dump/ 16-20cy/ Hwy	Base Rock from Vernalis	26	2634	0.9	2822	109	Vernalis to/from Lower Roberts Island	28	56	Diesel		
Lower Roberts I - E Access -6	Truck, Water, 4 med, Hwy	Water from Lodi	26	69	0.5	148	6	Lodi to/from Lower Roberts Island	14	28	Diesel		
Lower Roberts I - E Access -7	Pickup, 1/2T, 2wd	Materials from Stockton	104	1080	0.6	1627	15.6	Stockton to/from Lower Roberts Island	19	38	Hybrid Gasoline		
Lower Roberts I - E Access -7	Truck, Flatbed, 4T, Hwy	Materials from Stockton	104	1080	0.6	1627	15.6	Stockton to/from Lower Roberts Island	19	38	Diesel		
Lower Roberts I - E Access -7	Truck, Flatbed, 10T, Hwy	Two Cranes from and to Stockton	104	9	0.6	4	0.0	Stockton to/from Lower Roberts Island	19	38	Diesel		
Lower Roberts I - E Access -8	Truck, Flatbed, 10T, Hwy	Paver and two Rollers to and from Stockton	2	4	0.6	6	3.0	Stockton to/from Lower Roberts Island	19	38	Diesel		
Lower Roberts I - E Access -8	Truck, Water, 4 med, Hwy	Recycled Water from Lodi	25	69	0.5	148	6	Lodi to/from Lower Roberts Island	14	28	Diesel		
Lower Roberts I - E Access -8	Truck & Bottom Dump/ 22cy/ 30T	Asphalt from Vernalis	25	1407	0.9	1507	60	Vernalis to/from Lower Roberts Island	28	56	Diesel Tier 4		
Lower Roberts I - E Access -9	Truck, Flatbed, 10T, Hwy	Loader to Stockton	1	1	0.6	1	1.0	Stockton to/from Lower Roberts Island	19	38	Diesel		
Lower Roberts I - E Access -9	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	1	0.6	2	1.0	Stockton to/from Lower Roberts Island	19	38	Diesel		
Lower Roberts I - E Access -10	Truck, Flatbed, 10T, Hwy	Paver and two Rollers to and from Stockton	2	4	0.6	6	3.0	Stockton to/from Lower Roberts Island	19	38	Diesel		
Lower Roberts I - E Access -10	Truck & Bottom Dump/ 22cy/ 30T	Asphalt from Vernalis	25	469	0.9	503	20	Stockton to/from Lower Roberts Island	28	56	Diesel Tier 4		
Lower Roberts I - E Access -11	Truck, Flatbed, 10T, Hwy	Paver and two Rollers to and from Stockton	2	4	0.6	6	3	Stockton to/from Lower Roberts Island	19	38	Diesel		
Lower Roberts I - E Access -11	Truck & Bottom Dump/ 22cy/ 30T	Asphalt from Vernalis	25	469	0.9	503	20	Vernalis to/from Lower Roberts Island	28	56	Diesel Tier 4		
Vehicle Use on Unpaved/Dirt Surface (no access made at park and ride lots) — on the Construction Site													
Lower Roberts I - E Access -1	CAT 720 30T, Articulated End Dump	Dumpers	19	922.11	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		4611	Diesel Tier 4 or Hybrid Diesel		

**Employees Required to Lower Roberts I - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B**

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip
Lower Roberts I - E Access -1	Operator G4 Dozer & Push Cat	368.84	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -1	Operator G2 Excavator 3.5 to 7.0 t	184.42	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -1	OPERATING ENGINEER FOREMAN	92.21	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -1	Teamster G3 ED 8-24cy, Water<7	922.11	10		Stockton to/from Lower Roberts Island	19
TOTAL Lower Roberts I - E Access-1						
Lower Roberts I - E Access -2	Laborer G2 General	32.42	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -2	Operator G5 Compactor w-blade	270.17	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -2	Operator G4 Dozer & Push Cat	270.17	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -2	OPERATING ENGINEER FOREMAN	270.17	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -2	Operator G2 Finish Blade	135.09	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -2	Teamster G2 Hwy ED 6-8cy, Water<7	135.09	10		Stockton to/from Lower Roberts Island	19
TOTAL Lower Roberts I - E Access-2						
Lower Roberts I - E Access -3	Laborer G1 Pipe layers	126.67	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -3	Laborer Foreman	31.67	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -3	Operator G3 BH-Loader>3/4cy	63.33	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -3	Teamster G1 Hwy ED<6cy, Flatbed	47.5	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -3	Teamster G2 Hwy ED 6-8cy, Water<7	15.83	10		Stockton to/from Lower Roberts Island	19
TOTAL Lower Roberts I - E Access-3						
Lower Roberts I - E Access -4	Iron Worker Journeyman Rebar/Struc	1212.12	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -4	Laborer G3 Bridge labor	1212.12	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -4	Operator G1a Cranes>100 t	303.03	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -4	Operator G2a Cranes 45 to 100 t	303.03	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -4	OPERATING ENGINEER FOREMAN	303.03	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -4	Pile Driver Wharf and Dock	1212.12	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -4	Teamster G1 Hwy ED<6cy, Flatbed	303.03	10		Stockton to/from Lower Roberts Island	19
TOTAL Lower Roberts I - E Access-4						
Lower Roberts I - E Access -5	Laborer G1 Pipe layers	391.25	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -5	Laborer G1 Power Tamper	195.63	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -5	Operator G4 Loader <4.1cy	97.81	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -5	Teamster G2 Hwy ED 6-8cy, Water<7	195.63	10		Stockton to/from Lower Roberts Island	19
TOTAL Lower Roberts I - E Access-5						
Lower Roberts I - E Access -6	Laborer G3 Flagman	517.72	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -6	Operator G7 Roller, Compactor	258.86	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -6	OPERATING ENGINEER FOREMAN	258.86	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -6	Operator G4 Grade Check	258.86	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -6	Operator G2 Finish Blade	258.86	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -6	Operator G8 Generator	51.77	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -6	Teamster G2 Hwy ED 6-8cy, Water<7	258.86	10		Stockton to/from Lower Roberts Island	19
TOTAL Lower Roberts I - E Access-6						
Lower Roberts I - E Access -7	Iron Worker Journeyman Rebar/Struc	4121.21	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -7	Laborer G3 Bridge labor	4121.21	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -7	Operator G1a Cranes>100 t	1030.3	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -7	Operator G2a Cranes 45 to 100 t	1030.3	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -7	OPERATING ENGINEER FOREMAN	1030.3	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -7	Pile Driver Wharf and Dock	4121.21	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -7	Teamster G1 Hwy ED<6cy, Flatbed	1030.3	10		Stockton to/from Lower Roberts Island	19
TOTAL Lower Roberts I - E Access-7						
Lower Roberts I - E Access -8	Laborer G2 General	986.25	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -8	Operator G5 Asphalt Roller	493.13	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -8	Operator G3 BH-Loader>3/4cy	246.56	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -8	OPERATING ENGINEER FOREMAN	246.56	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -8	Operator G4 Grade Check	246.56	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -8	Operator G5 Paver	246.56	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -8	Teamster G2 Hwy ED 6-8cy, Water<7	123.28	10		Stockton to/from Lower Roberts Island	19
TOTAL Lower Roberts I - E Access-8						
Lower Roberts I - E Access -9	Iron Worker-Rigger	11.67	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -9	Laborer G2 General	46.69	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -9	Operator G4a Boom truck<15 ton	11.67	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -9	Operator G3 BH-Loader>3/4cy	11.67	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -9	OPERATING ENGINEER FOREMAN	11.67	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -9	Teamster G3 Boom Truck	11.67	10		Stockton to/from Lower Roberts Island	19
TOTAL Lower Roberts I - E Access-9						
Lower Roberts I - E Access -10	Laborer G2 General	380.67	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -10	Operator G5 Asphalt Roller	190.34	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -10	Operator G3 BH-Loader>3/4cy	95.17	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -10	OPERATING ENGINEER FOREMAN	95.17	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -10	Operator G4 Grade Check	95.17	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -10	Operator G5 Paver	95.17	10		Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -10	Teamster G2 Hwy ED 6-8cy, Water<7	47.58	10		Stockton to/from Lower Roberts Island	19
TOTAL Lower Roberts I - E Access-10						

Lower Roberts I - E Access -11	Laborer G2 General	380.67	10	Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -11	Operator G5 Asphalt Roller	190.34	10	Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -11	Operator G3 BH-Loader>3/4cy	95.17	10	Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -11	OPERATING ENGINEER FOREMAN	95.17	10	Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -11	Operator G4 Grade Check	95.17	10	Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -11	Operator G5 Paver	95.17	10	Stockton to/from Lower Roberts Island	19
Lower Roberts I - E Access -11	Teamster G2 Hwy ED 6-8cy, Water<7	47.58	10	Stockton to/from Lower Roberts Island	19
TOTAL Lower Roberts I - E Access-11					

Marine Inventory for Lower Roberts I - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Lower Roberts I - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

Helicopter Inventory for Lower Roberts I - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Lo Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
Lower Roberts I - E Access -1	31	19	1.6	33196	1747						
Lower Roberts I - E Access -2		28				62140	2219				
Lower Roberts I - E Access -6		26				31063	1195				
Lower Roberts I - E Access -8		25								1220490	48820
Lower Roberts I - E Access -10		20								406845	20342
Lower Roberts I - E Access -11		11				406845				36986	

Demolition Assumptions for Lower Roberts I - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Lower Roberts I Railroad - Eastern Access
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Track	LRI RR - Eastern Access -1	7/5/2027	9/9/2027	49	5	10

PLEASE NOTE THAT BRIDGES OVER BURNS AND TURNER CUTS WOULD BE A ROADWAY & RAILROAD BRIDGE. CONSTRUCTION OF BRIDGE INCLUDED IN LOWER ROBERTS ISLAND - EASTERN ACCESS ROAD. THIS WORKBOOK INCLUDES CONSTRUCTION OF RAILROAD ON LOWER ROBERTS ISLAND.

Offroad Equipment (Fossil Fuel) Inventory for Lower Roberts I Railroad - Eastern Access
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
LRI RR - Eastern Access -1	Grove RT Crane 55T, 247 hp	Crane	628.8	49	13	Diesel	247	0.29		
LRI RR - Eastern Access -1	CAT D6LGPDozer w winch	Crawler Tractor	157.2	49	3	Diesel Tier 4 or Hybrid Dies	179	0.43		
LRI RR - Eastern Access -1	CAT LOADER/HOE 416 E	Rubber Tired Loader	628.8	49	13	Diesel	78	0.36		
LRI RR - Eastern Access -1	CAT 14 M	Grader	160.91	49	3	Diesel	274	0.41		
LRI RR - Eastern Access -1	CAT 962 H Wheel Loader	Rubber Tired Loader	160.91	49	3	Diesel or Hybrid	230	0.36		
LRI RR - Eastern Access -1	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	160.91	49	3	Diesel	158	0.38		
LRI RR - Eastern Access -1	Water Pump, 4" Diesel	Pumps	32.18	49	1	Diesel	10	0.74		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Lower Roberts I Railroad - Eastern Access
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
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NOT NEEDED

Vehicle Inventory for Lower Roberts I Railroad - Eastern Access
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint or within)	# day	Vehicle Hours	Hours/Trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)	Fuel (gal/day) (if known)
Vehicle Use on Paved Roads — and Not on Construction Site													
LR 08 - Eastern Access - 1	Pickup, 1/2T, 2wd	Materials from Stockton	49	475	0.8	594	12	Lower Roberts I to/from Stockton	14	28	Hybrid Gasoline		
LR 08 - Eastern Access - 1	Pickup, 3/4T, 2wd	Materials from Stockton	49	161	0.8	201	4	Lower Roberts I to/from Stockton	14	28	Hybrid Gasoline		
LR 08 - Eastern Access - 1	Truck, Flatbed, 30T, 10w	Tractor, Crane, Grader, Roller, and Two Loaders from at	2	5	0.8	6	3.0	Lower Roberts I to/from Stockton	14	28	Diesel		
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) — on the Construction Site													
LR - Eastern - 1	Truck & Bottom Dump, 22cy, 30T	Dumpers	49	643.6	not applicable	not applicable	not applicable	on-site, assume 5 miles/hour		3218	Diesel Tier 4		

Employees Required to Lower Roberts I Railroad - Eastern Access
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

[illegible]

Marine Inventory for Lower Roberts I Railroad - Eastern Access
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Lower Roberts I Railroad - Eastern Access
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

Helicopter Inventory for Lower Roberts I Railroad - Eastern Access
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Local Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

LRI RR - Eastern Access -1

Demolition Assumptions for Lower Roberts I Railroad - Eastern Access
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

**Construction Schedule for Lower Roberts Island - Eastern Tunnel Shaft
Options 2A, 2B**

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Embankment	LRI-Eastern - 1	5/18/2027	6/4/2027	14	5	10
Subdrain	LRI-Eastern - 2	6/7/2027	7/2/2027	20	5	10
Mobilize	LRI-Eastern - 3	7/19/2028	9/12/2028	39	5	10
Management, Engineering, & Field Labor	LRI-Eastern - 4	7/19/2028	7/7/2036	2105	5	10
Clear and Grub	LRI-Eastern - 5	9/13/2028	10/10/2028	19	5	10
Grading, & Compaction at Shaft & Segment Storage Area	LRI-Eastern - 6	10/3/2029	10/30/2029	20	5	10
		10/10/2029	8/12/2030	220	5	
Ground Improvement, Grading, & Compaction at RTM Storage Area	LRI-Eastern - 7					10
Raise Shaft Pad	LRI-Eastern - 8	3/14/2029	2/26/2030	250	5	10
Excavate, Set Strips, & Concrete for Shaft & Segment Areas	LRI-Eastern - 9	10/31/2029	12/18/2029	35	5	10
Place Guide Walls Concrete	LRI-Eastern - 10	2/27/2030	3/22/2030	18	5	10
Excavate Slurry Wall, Place Concrete & Rebar, Slurry Wall, Remove		3/25/2030	7/18/2030	85	5	10
Guide Wall, & add Top Beam	LRI-Eastern - 11					
Excavate Shaft	LRI-Eastern - 12	7/19/2030	10/16/2030	66	5	10
Place Tremie Seal Rebar, Cooling Pipes, & Seal	LRI-Eastern - 13	10/17/2030	11/13/2030	28	7	24
Dewater Shaft	LRI-Eastern - 14	11/14/2030	11/20/2030	10	7	24
Place TBM Cradle Rebar and Cradle Pour	LRI-Eastern - 15	11/21/2030	11/29/2030	7	5	10
Breakout Slurry Wall for TBM	LRI-Eastern - 16	12/4/2030	12/31/2030	20	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	LRI-Eastern - 17	1/1/2031	3/25/2031	60	5	10
Erect Gantry Crane	LRI-Eastern - 18	3/26/2031	4/16/2031	16	5	10
TBM Assembly including Shaft Utilities	LRI-Eastern - 19	4/17/2031	12/3/2031	165	5	10
Tunneling Operations including Equipment Delivery	LRI-Eastern - 20	4/17/2031	4/22/2036	1571	6	20
Remove TBM and Tunnel Equipment	LRI-Eastern - 21	4/23/2036	7/7/2036	55	5	10
Final Access to RTM Storage Area	LRI-Eastern - 22	7/8/2036	7/10/2036	3	3	10
Site Restoration	LRI-Eastern - 23	7/10/2036	1/23/2037	141	5	10

Total Site Acres

407

**Offroad Equipment (Fossil Fuel) Inventory for Lower Roberts Island - Eastern Tunnel Shaft
Options 2A, 2B**

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
LRI-Eastern - 1	CAT D6LGP Dozer w winch	Crawler Tractor	131	14	9	Diesel or Hybrid	179	0.43		
LRI-Eastern - 1	Disk, Towed	Off-Highway Tractor	131	14	9	Diesel	140	0.44		
LRI-Eastern - 1	CAT 14 M	Grader	65.5	14	5	Diesel	274	0.41		
LRI-Eastern - 1	Water Pump 4" Electric	Pumps	15.72	14	1	Diesel	10	0.74		
LRI-Eastern - 1	CAT 825, Roller	Rollers	131	14	9	Diesel	315	0.38		
LRI-Eastern - 2	CAT LOADER/HOE 416 E	Rubber Tired Loader	49.13	20	2	Diesel	78	0.36		
LRI-Eastern - 2	Compactor, Trench Roller, Vib 32"w	Roller	98.25	20	5	Diesel	20	0.38		
LRI-Eastern - 3	Hydraulic 9 Ton Crane	Crane	400	39	10	Diesel	85	0.29		
LRI-Eastern - 3	Hydraulic 40 Ton Crane	Crane	400	39	10	Diesel	300	0.29		
LRI-Eastern - 3	CAT Forklift 5,500 LB	Aerial Lift	400	39	10	Diesel	63	0.31		
LRI-Eastern - 5	CAT D8 Dozer	Crawler Tractor	1015.8	19	53	Diesel Tier 4 or Hybrid Diesel	179	0.43		
LRI-Eastern - 5	Grader 16H - 16' Blade	Grader	1015.8	19	53	Diesel	285	0.41		
LRI-Eastern - 5	623G Scraper Elevate 21 CY	Scaper	2031.5	19	107	Diesel	359	0.48		
LRI-Eastern - 6	CAT 825H Compactor	Rollers	120	20	6	Diesel	145	0.38		
LRI-Eastern - 6	CAT CB-634D Vibratory 84"	Rollers	120	20	6	Diesel	315	0.38		
LRI-Eastern - 6	CAT Grader 16H	Grader	120	20	6	Diesel	285	0.41		
LRI-Eastern - 6	CAT 980 Loader 7.5 CY	Grader	120	20	6	Diesel	285	0.41		
LRI-Eastern - 6	CAT D8 Dozer	Crawler Tractor	120	20	6	Diesel Tier 4 or Hybrid Diesel	179	0.43		
LRI-Eastern - 7	Air Compressor 375 CFM	Air Compressor	3547	220	16	Diesel Tier 4	122	0.48		
LRI-Eastern - 7	Grove RT Crane 30T	Crane	3547	220	16	Diesel	160	0.29		
LRI-Eastern - 7	DMM Deep Soil Mixer	Bore Drill Rig	3547	220	16	Diesel	522	0.5		
LRI-Eastern - 7	DMM Grout Mix Plant	Other Industrial Equipmen	3547	220	16	Diesel	500	0.34		
LRI-Eastern - 7	Portable 90 Kw Diesel Generators	Generators	220	220	1	Diesel Tier 4	158	0.74		
LRI-Eastern - 7	Case 590 SupN Loader	Rubber Tired Loaders	3547	220	16	Diesel	110	0.36		
LRI-Eastern - 7	Water Pump 4" Electric	Pumps	3547	220	16	Diesel	10	0.74		
LRI-Eastern - 7	CAT 825H Compactor	Rollers	202	220	1	Diesel	145	0.38		
LRI-Eastern - 7	CAT CB-634D Vibratory 84"	Rollers	202	220	1	Diesel	315	0.38		
LRI-Eastern - 7	CAT Grader 16H	Grader	202	220	1	Diesel	285	0.41		
LRI-Eastern - 7	CAT 980 Loader 7.5 CY	Grader	202	220	1	Diesel	285	0.41		
LRI-Eastern - 7	CAT D8 Dozer	Crawler Tractor	202	220	1	Diesel Tier 4 or Hybrid Diesel	179	0.43		
LRI-Eastern - 7	Hydraulic 9 Ton Crane	Crane	375	220	2	Diesel	85	0.29		
LRI-Eastern - 8	CAT CB-634D Vibratory 84"	Rollers	3852.63	250	15	Diesel	145	0.38		
LRI-Eastern - 8	CAT Grader 16H	Graders	3852.63	250	15	Diesel	285	0.41		
LRI-Eastern - 8	CAT D8 Dozer	Crawler Tractor	3852.63	250	15	Diesel	328	0.43		
LRI-Eastern - 9	Hydraulic 9 Ton Crane	Crane	226.5	35	6	Diesel	85	0.29		
LRI-Eastern - 10	CAT Hyd Excavator 1CY	Excavator	9.6	18	1	Diesel	138	0.38		
LRI-Eastern - 10	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	9.6	18	1	Diesel or Hybrid	130	0.36		
LRI-Eastern - 11	Manitowoc 777 200 Ton Crane	Crane	1016	85	12	Diesel	760	0.29		
LRI-Eastern - 11	1600 CFM Compressor Diesel	Air Compressor	522	85	6	Diesel Tier 4	540	0.48		
LRI-Eastern - 11	Hydraulic 55 Ton Crane	Crane	1016	85	12	Diesel	350	0.29		
LRI-Eastern - 11	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	508	85	6	Diesel or Hybrid	130	0.36		
LRI-Eastern - 11	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	508	85	6	Diesel	8	0.56		
LRI-Eastern - 11	Slurry Wall Techniwell	Pumps	508	85	6	Diesel	500	0.74		
LRI-Eastern - 11	CAT Hyd Excavator 1CY	Excavator	396	85	5	Diesel	138	0.38		
LRI-Eastern - 11	Hydraulic Excavator to 3.5 tons = Kobe Excavator	Excavator	380	85	4	Diesel	345	0.38		
LRI-Eastern - 11	250 CFM Compressor Diesel	Air Compressor	396	85	5	Diesel Tier 3	75	0.48		
LRI-Eastern - 11	Hydraulic 9 Ton Crane	Crane	16	85	0	Diesel	85	0.29		
LRI-Eastern - 11	Hydraulic 40 Ton Crane	Crane	16	85	0	Diesel	300	0.29		
LRI-Eastern - 11	CAT Forklift 5,500 LB	Aerial Lift	16	85	0	Diesel	63	0.31		
LRI-Eastern - 11	Heavy Duty Mechanic Welder	Welder	508	85	6	Diesel	400	0.45		
LRI-Eastern - 12	Manitowoc 777 200 Ton Crane	Crane	688	66	10	Diesel	760	0.29		
LRI-Eastern - 13	Manitowoc 777 200 Ton Crane	Crane	233	28	8	Diesel	760	0.29		
LRI-Eastern - 13	Hydraulic 40 Ton Crane	Crane	80	28	3	Diesel	300	0.29		
LRI-Eastern - 13	Hydraulic 25 Ton Crane	Crane	198.65	28	7	Diesel	100	0.29		
LRI-Eastern - 14	Hydraulic 15 Ton Crane	Crane	100	10	10	Diesel	85	0.29		
LRI-Eastern - 14	Dewater Pump 6"	Pump	400	10	40	Diesel	50	0.74		
LRI-Eastern - 14	150 KW Diesel Generator	Generator	100	10	10	Diesel Tier 4	183	0.74		
LRI-Eastern - 15	Manitowoc 777 200 Ton Crane	Crane	92.3	7	13	Diesel	760	0.29		
LRI-Eastern - 15	250 CFM Compressor Diesel	Air Compressor	21.3	7	3	Diesel Tier 3	75	0.48		
LRI-Eastern - 15	Trailer Conc Pump 100 CY HR	Pump	21.3	7	3	Diesel	200	0.74		
LRI-Eastern - 16	Manitowoc 777 200 Ton Crane	Crane	281.44	20	14	Diesel	760	0.29		
LRI-Eastern - 16	250 CFM Compressor Diesel	Air Compressor	281.44	20	14	Diesel Tier 3	75	0.48		
LRI-Eastern - 17	Manitowoc 777 200 Ton Crane	Crane	520.8	60	9	Diesel	760	0.29		
LRI-Eastern - 17	250 CFM Compressor Diesel	Air Compressor	680.8	60	11	Diesel Tier 3	75	0.48		
LRI-Eastern - 17	Trailer Conc Pump 100 CY HR	Pump	376.8	60	6	Diesel	200	0.74		
LRI-Eastern - 17	Manitowoc 999-275 Ton Crane	Crane	288	60	5	Diesel	900	0.29		
LRI-Eastern - 18	Hydraulic 25 Ton Crane	Crane	160	16	10	Diesel	100	0.29		
LRI-Eastern - 18	Truck Crane Lattice Boom 90T	Crane	160	16	10	Diesel Tier 4	300	0.29		
LRI-Eastern - 18	1600 CFM Compressor Diesel	Air Compressor	160	16	10	Diesel Tier 4	540	0.48		
LRI-Eastern - 18	Telescope RT Forklift 5500	Forklift	160	16	10	Diesel	63	0.2		
LRI-Eastern - 18	Heavy Duty Mechanic Welder	Welder	160	16	10	Diesel	400	0.45		
LRI-Eastern - 19	250 CFM Compressor Diesel	Air Compressor	16300	165	99	Diesel Tier 3	75	0.48		
LRI-Eastern - 19	Hydraulic 40 Ton Crane	Crane	900	165	5	Diesel	300	0.29		
LRI-Eastern - 20	Hydraulic 9 Ton Crane	Crane	12340	1571	8	Diesel	85	0.29		
LRI-Eastern - 20	Hydraulic 40 Ton Crane	Crane	12340	1571	8	Diesel	300	0.29		

LRI-Eastern - 20	CAT Forklift 5,500 LB	Aerial Lift	12340	1571	8	Diesel	63	0.31
LRI-Eastern - 20	CAT 980 Loader 7.5 CY	Grader	60700	1571	39	Diesel	285	0.41
LRI-Eastern - 20	250 CFM Compressor Diesel	Air Compressor	23455.58	1571	15	Diesel Tier 3	75	0.48
LRI-Eastern - 20	Grout Pump	Cement & Mortar Mix	1151.17	1571	1	Diesel	500	0.56
LRI-Eastern - 20	Grout Mixer	Cement & Mortar Mix	1151.17	1571	1	Diesel	70	0.56
LRI-Eastern - 20	Manitowoc 777 200 Ton Crane	Crane	31516	1571	20	Diesel	760	0.29
LRI-Eastern - 21	Manitowoc 777 200 Ton Crane	Crane	715	55	13	Diesel	760	0.29
LRI-Eastern - 21	Hydraulic 55 Ton Crane	Crane	715	55	13	Diesel	350	0.29
LRI-Eastern - 21	CAT Forklift 5,500 LB	Aerial Lift	1170	55	21	Diesel	63	0.31
LRI-Eastern - 21	1600 CFM Compressor Diesel	Air Compressor	100	55	2	Diesel Tier 4	540	0.48
LRI-Eastern - 21	Hydraulic 25 Ton Crane	Crane	100	55	2	Diesel	100	0.29
LRI-Eastern - 21	Truck Crane Lattice Boom 90T	Crane	100	55	2	Diesel Tier 4	300	0.29
LRI-Eastern - 21	Heavy Duty Mechanic Welder	Welder	100	55	2	Diesel	400	0.45
LRI-Eastern - 22	CAT D6LGPDozer w winch	Crawler Tractor	20	3	7	Diesel or Hybrid	179	0.43
LRI-Eastern - 22	CAT 14 M	Grader	20	3	7	Diesel	274	0.41
LRI-Eastern - 22	Water Pump 4" Electric	Pumps	20	3	7	Diesel	10	0.74
LRI-Eastern - 22	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	20	3	7	Diesel	158	0.38
LRI-Eastern - 22	Cat 613 C Self Loading Scraper	Scraper	40	3	13	Diesel	187	0.48
LRI-Eastern - 23	CAT 390 MASS EXC	Excavator	330	141	2	Diesel	534	0.38
LRI-Eastern - 23	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	990	141	7	Diesel	345	0.38
LRI-Eastern - 23	CAT 12 M	Grader	40	141	0	Diesel	173	0.41
LRI-Eastern - 23	CAT D9R, Dozer w ripper	Crawler Tractor	100	141	1	Diesel	410	0.43
LRI-Eastern - 23	Cat 6 mgal w/ CAT 725 Tractor, 320hp	Crawler Tractor	416.5	141	3	Diesel	320	0.43
LRI-Eastern - 23	Farm Tractor, All Wheel Drive, 285 HP	Off-Highway Tractor	153	141	1	Diesel	80	0.44
LRI-Eastern - 23	Disk, Towed	Off-Highway Tractor	13	141	0	Diesel	140	0.44
LRI-Eastern - 23	CAT 966 GII Wheel Loader	Rubber Tired Loader	10	141	0	Diesel	170	0.36
LRI-Eastern - 23	CAT D8Rii, Dozer w winch	Crawler Tractor	760	141	5	Diesel	310	0.43
LRI-Eastern - 23	CAT 631G Scraper, Conventional	Scraper	760	141	5	Diesel	515	0.48
LRI-Eastern - 23	Hydro Mulcher, 18 HP	Pump	110	141	1	Diesel	25	0.29

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Lower Roberts Island - Eastern Tunnel Shaft
Options 2A, 2B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
LRI-Eastern - 19	Gantry Crane	1150	165	0.25	2
LRI-Eastern - 19	Axial Fan 114,000 CFM	2550	165	50	773
LRI-Eastern - 20	Axial Fan 114,000 CFM	211808	1571	50	6,741
LRI-Eastern - 20	Gantry Crane		1571	0.25	0
LRI-Eastern - 21	Gantry Crane	1070	55	0.25	5
LRI-Eastern-2	Light Plant, 4 lite, 1000w	524	228		

Electricity for TBM Operations included in the Summary Workbook

Vehicle Inventory for Lower Roberts Island - Eastern Tunnel Shaft
Options 2A, 2B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
LRI-Eastern - 1	Pickup, 1/2T, 2wd	Materials from Stockton	14	131.5	0.6	208	14.8	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 1	Truck, Flatbed, 10T, Hwy	Two Tractors, Grader, and Roller from and to Stockton	2	5.1	0.6	8	4.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 2	Truck, Flatbed, 10T, Hwy	Loader and Roller from and to Stockton	2	2.5	0.6	4	2.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 3	Truck, Flatbed, 10T, Hwy	Materials from Stockton	39	400.0	0.6	632	16.2	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 3	Truck, Flatbed, 10T, Hwy	Two Cranes and Forklift from and to Stockton	2	3.8	0.6	6	3.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 3	Truck, Flatbed, 10T, Hwy	Materials from Stockton	39	10.1	0.6	16	0.4	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 5	Truck, Flatbed, 10T, Hwy	Dozer and Grader from Stockton	1	1.3	0.6	2	2.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 5	Truck, Flatbed, 10T, Hwy	Scraper from and to Stockton	2	1.3	0.6	2	1.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 5	Truck, Flatbed, 10T, Hwy	Materials from Stockton	19	107.7	0.6	170	8.9	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 6	Truck, Flatbed, 10T, Hwy	Two Rollers and Grader from Stockton	1	3.8	0.6	6	6.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 7	Pickup 1/2T 2 WD	Materials from Stockton	230	3547.0	0.6	5601	25.5	Lower Roberts 1 Shaft to/from Stockton	19	38	Hybrid Gasoline	
LRI-Eastern - 7	Truck Flatbed 4 T Highway	Materials from Stockton	220	3547.0	0.6	5601	25.5	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 7	Mechanic Truck	Materials from Stockton	220	3547.0	0.6	5601	25.5	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 7	Truck, Flatbed, 10T, Hwy	Grader and Roller to Stockton	1	1.3	0.6	2	2.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 7	Truck, Flatbed, 10T, Hwy	Two Cranes from and to Stockton	2	2.5	0.6	4	2.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 8	Highway Dump Truck 18 CY	Materials from Stockton	250	3852.6	0.6	6083	24.3	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 8	Truck, Flatbed, 10T, Hwy	Tractor, Grader, and Roller to Stockton	1	3.8	0.6	6	6.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 9	Truck Flatbed 4 T Highway	Rebar from Livermore	35	12.8	1.6	8	0.2	Lower Roberts 1 Shaft to/from Livermore	48	96	Diesel	
LRI-Eastern - 9	Concrete Transit Mix Truck 12cy	Concrete from Stockton	35	376.8	0.6	595	17.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 10	Truck, Flatbed, 10T, Hwy	Excavator and Loader from Stockton	1	1.3	0.6	2	2.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 10	Truck Flatbed 4 T Highway	Rebar from Livermore	18	1.6	1.6	1	0.1	Lower Roberts 1 Shaft to/from Sacramento	48	96	Diesel	
LRI-Eastern - 10	Concrete Transit Mix Truck 12cy	Concrete from Stockton	18	641.2	0.5	1374	76.3	Lower Roberts 1 Shaft to/from Lod	14	28	Diesel	
LRI-Eastern - 11	Truck, Flatbed, 10T, Hwy	Materials from Stockton	85	16.0	0.6	25	0.3	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 11	Truck, Flatbed, 10T, Hwy	Three Cranes and Forklifts from Stockton	1	1.9	0.6	3	3.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 11	Truck, Flatbed, 10T, Hwy	Excavator, Crane, and Loader to Stockton	1	1.9	0.6	3	3.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 11	Truck Flatbed 4 T Highway	Rebar from Livermore	85	113.6	1.6	71	0.8	Lower Roberts 1 Shaft to/from Livermore	48	96	Diesel	
LRI-Eastern - 11	Concrete Transit Mix Truck 12cy	Concrete from Stockton	85	11.4	0.6	18	0.2	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 11	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	85	311.7	1.8	170	2.0	Lower Roberts 1 Shaft to/from Sacramento	55	110	Diesel	
LRI-Eastern - 11	Truck Flatbed 4 T Highway	Materials from Stockton	85	189.4	0.6	299	3.5	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 12	Concrete Transit Mix Truck 12cy	Concrete from Stockton	66	624.5	0.6	986	14.9	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	0.6	0.6	1	1.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 13	Truck Flatbed 4 T Highway	Rebar from Livermore	28	24.0	1.6	15	0.5	Lower Roberts 1 Shaft to/from Livermore	48	96	Diesel	
LRI-Eastern - 13	Concrete Transit Mix Truck 12cy	Concrete from Stockton	28	795.5	0.6	1256	44.9	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 14	Truck, Flatbed, 10T, Hwy	Crane from and to Stockton	2	1.3	0.6	2	1.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 15	Truck Flatbed 4 T Highway	Rebar from Livermore	7	3.2	1.6	2	0.3	Lower Roberts 1 Shaft to/from Livermore	48	96	Diesel	
LRI-Eastern - 15	Concrete Transit Mix Truck 12cy	Concrete from Stockton	7	57.0	0.6	90	12.9	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 16	Truck Flatbed 4 T Highway	Rebar from Livermore	20	8.0	1.6	5	0.3	Lower Roberts 1 Shaft to/from Livermore	48	96	Diesel	
LRI-Eastern - 17	Truck, Flatbed, 10T, Hwy	Crane from and to Stockton	2	1.3	0.6	2	1.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 17	Concrete Transit Mix Truck 12cy	Concrete from Stockton	60	376.2	0.6	594	9.9	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 17	Truck, Flatbed, 10T, Hwy	Pre-Cast Segments from Stockton	60	12513.0	0.6	19757	329.3	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 19	Highway Dump Truck 18 CY	Grout for Pre Cast Segments from Stockton	165	307.8	0.6	486	2.9	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 20	Truck, Flatbed, 10T, Hwy	Two Cranes and Grader to Stockton	2	3.8	0.6	6	3.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 20	Truck Flatbed 4 T Highway	Materials from Stockton	1571	2468.0	0.6	3897	2.5	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 20	Truck, Flatbed, 10T, Hwy	Materials from Stockton	1571	6252.3	0.6	9872	6.3	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 20	Highway Dump Truck 18 CY	Grout for Pre Cast Segments from Stockton	1571	8135.8	0.6	12846	8.2	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 21	Truck, Flatbed, 10T, Hwy	Materials from Stockton	55	180.0	0.6	284	5.2	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 21	Truck, Flatbed, 10T, Hwy	Four Cranes and Forklift to Stockton	2	2.5	0.6	4	2.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 22	Pickup 1/2T 2 WD	Materials from Stockton	3	20.0	0.6	32	10.5	Lower Roberts 1 Shaft to/from Stockton	19	38	Hybrid Gasoline	
LRI-Eastern - 22	Truck, Flatbed, 10T, Hwy	Dozer, Grader, Roller, and Scraper from and to Stockton	2	5.1	0.6	8	4.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 23	Pickup 1/2T 2 WD	Materials from Stockton	141	660.0	0.6	1042	7.4	Lower Roberts 1 Shaft to/from Stockton	19	38	Hybrid Gasoline	
LRI-Eastern - 23	Truck, Flatbed, 10T, Hwy	Scraper, Two Excavators, Grader, Five Tractors, and Loader from and to Stockton	2	11.4	0.6	18	9.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 23	Highway Dump Truck 18 CY	Base Rock from Vernalis	141	75.6	0.9	81	0.6	Lower Roberts 1 Shaft to/from Vernalis	28	56	Diesel	
LRI-Eastern - 23	Truck Flatbed 4 T Highway	Materials from Stockton	141	100.1	0.6	158	1.1	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at work and ride trails) --- on the Construction Site												
LRI-Eastern - 1	Cat 10meal w/Cat 770, S11HP	Dumers	14	65.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		328	Diesel	
LRI-Eastern - 2	Truck, End Dump, 10-13cy, Hwy	Dumers	20	98.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		491	Diesel	
LRI-Eastern - 7	Concrete Pump Truck	Off-Highway Truck	220	464.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2320	Diesel	
LRI-Eastern - 8	Articulated Rear Dump 22 CY/CAT 730	Dumper to move fill on-site	250	5651.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		28258	Diesel or Hybrid	
LRI-Eastern - 11	CAT 730 Rear Dumbo	Dumper	85	579	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2896	Diesel or Hybrid	
LRI-Eastern - 11	Articulated Rear Dump 22 CY/CAT 730	Dumper	85	508.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2540	Diesel or Hybrid	
LRI-Eastern - 11	Concrete Pump Truck	Off-Highway Truck	85	1016.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		5080	Diesel	
LRI-Eastern - 12	CAT 730 Rear Dump	Dumper	66	3440	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		17139	Diesel or Hybrid	
LRI-Eastern - 13	Concrete Pump Truck	Off-Highway Truck	28	197.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		987	Diesel	
LRI-Eastern - 23	CAT 740 40T, Articulated End dmp	Dumper	141	330.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1650	Diesel or Hybrid	
LRI-Eastern - 23	Truck, End Dumps, 10-13cy, Hwy	Dumper	141	2640.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		13200	Diesel	

Employees Required to Lower Roberts Island - Eastern Tunnel Shaft
Options 2A, 2B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
LRI-Eastern - 1	Laborer G2 General	15.72	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 1	Operator G5 Compactor w-blade	131	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 1	Operator G4 Dozer & Push Cat	131	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 1	OPERATING ENGINEER FOREMAN	131	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 1	Operator G2 Finish Blade	65.5	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 1	Teamster G3 ED 8-24cy,	65.5				14
LRI-Eastern - 1	Water>7mgal		10		Stockton to/from Lower Roberts I Shaft	
TOTAL LRI-Eastern-1						
LRI-Eastern - 2	Laborer G1 Pipe layers	196.5	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 2	Laborer G1 Power Tamper	98.25	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 2	Operator G3 BH-Loader>3/4cy	49.13	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 2	Teamster G2 Hwy ED 6-8cy,	98.25				14
LRI-Eastern - 2	Water<7mgal		10		Stockton to/from Lower Roberts I Shaft	
TOTAL LRI-Eastern-2						
LRI-Eastern - 3	Bullgang Foreman	400	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 3	Bullgang Laborer	800	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 3	Mechanic / Welder	400	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 3	Hyd Crane Operator	800	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 3	Flat Truck Driver	400	10		Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-3						
LRI-Eastern - 4	Project Manager	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Office Manager	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Safety Manager	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	QC Manager	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Geotechnical Manager	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Environmental Manager	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Project Engineer	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Cost Engineer	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Field Engineer	11040	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Safety Engineer	29440	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Schedule Engineer	7360	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Shift Engineers	29440	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	QC Technician	7360	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Survey Party Chief	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Survey Rod Man	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Tunnel Superintendent	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Tunnel Walkers	29440	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Equipment Superintendent	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Electrical Superintendent	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	General Superintendent	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Concrete Superintendent	7360	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Purchasing Agent	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Runner	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Payroll Clerk	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Office Administrator	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Accountant	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	EMT	14720	10		Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-4						
LRI-Eastern - 5	General Foreman	507.88	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 5	Dozer Operator	1015.76	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 5	Grader Operator	1015.76	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 5	Operator G4 Grade Check	507.88	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 5	Scraper Operator	2031.52	10		Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-5						
LRI-Eastern - 6	Grade Setter / Checker	120	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 6	Loader Operator	120	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 6	General Laborer	240	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 6	Flagger	240	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 6	General Foreman	120	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 6	Compactor Operator	240	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 6	Dozer Operator	120	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 6	Grader Operator	120	10		Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-6						
LRI-Eastern - 7	Laborer G2 General	10641	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Operator G3a Crane	3547	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Operator G3 BH Loader	3547	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Operating Engineer	3547	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Operator G4 Grade Check	3547	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Operator G4 Heavy Duty Mechanic	3547	10		Stockton to/from Lower Roberts I Shaft	14

LRI-Eastern - 7	Operator G2 Plant Operator	7094	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Teamster G1 Hwy	3547	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Teamster G2 Hwy	3547	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Grade Setter / Checker	202	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Water Tanker Off road	202	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Loader Operator	202	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	General Laborer	1074	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Flagger	404	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	General Foreman	202	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Compactor Operator	404	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Dozer Operator	202	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Grader Operator	202	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Hyd Crane Operator	312	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Carpenter	1180	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Carpenter Foreman	179	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Iron Worker Foreman	312	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Iron Worker	3120	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Truck Driver	464	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-7					
LRI-Eastern - 8	Grade Setter / Checker	3852.63	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 8	Compactor Operator	3852.63	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 8	Dozer Operator	3852.63	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 8	Grader Operator	3852.63	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 8	Truck Driver	3852.63	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-8					
LRI-Eastern - 9	Hyd Crane Operator	226.61	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 9	General Laborer	366	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 9	Carpenter	712	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 9	Carpenter Foreman	108	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 9	Iron Worker Foreman	188	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 9	Iron Worker	1885	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 9	Truck Driver	280	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-9					
LRI-Eastern - 10	Shifter	9.6	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 10	Lead Miner	9.6	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 10	Miner	9.6	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 10	Loader Operator	9.6	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 10	Excavator Operator	9.6	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 10	Truck Driver	152.93	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 10	Carpenter	684	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 10	Carpenter Foreman	171	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 10	General Laborer	16	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-10					
LRI-Eastern - 11	General Laborer	6788.76	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	General Foreman	1396	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Mechanic Welder	524	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Shaft Crane Operator	508	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Crane Oiler	508	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Truck Driver	579.12	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Hyd Crane Operator	1048	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Loader Operator	888	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Slurry Wall Consultant	508	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Shifter	1524	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Lead Miner	508	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Miner	4064	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Iron Worker Foreman	1034.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Iron Worker	5153.2	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Excavator Operator	396	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Bullgang Foreman	16	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Bullgang Laborer	32	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Flat Truck Driver	16	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Carpenter	84.92	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Carpenter Foreman	21.23	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-9					
LRI-Eastern - 12	Diver Contractor	40	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 12	Shaft Crane Operator	688	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 12	Toplander	688	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 12	Crane Oiler	688	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-12					
LRI-Eastern - 13	Shifter	362.66	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 13	Miner	1023.3	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 13	Iron Worker Foreman	313	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 13	Iron Worker	2504	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 13	Shaft Crane Operator	233	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 13	Toplander	553	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 13	Bottomlander	233	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 13	Hyd Crane Operator	278.65	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 13	Diver Contractor	9.14	24	Stockton to/from Lower Roberts I Shaft	14

LRI-Eastern - 13	Lead Miner	49.66	24	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-13					
LRI-Eastern - 14	Shifter	100	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 14	Lead Miner	100	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 14	Miner	800	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 14	Hyd Crane Operator	100	24	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-14					
LRI-Eastern - 15	Shifter	92.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Miner	312.4	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Shaft Crane Operator	92.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Toplander	92.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Crane Oiler	92.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Iron Worker	568	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Iron Worker Foreman	71	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Lead Miner	21.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Mechanic Welder	21.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Electrician	21.3	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-15					
LRI-Eastern - 16	Shaft Crane Operator	281.44	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 16	Toplander	281.44	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 16	Bottomlander	281.44	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 16	Crane Oiler	281.44	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 16	Iron Worker	2251.5	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 16	Iron Worker Foreman	281.44	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-16					
LRI-Eastern - 17	Shifter	808.8	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Lead Miner	808.8	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Miner	6470.4	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Mechanic Welder	484	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Shaft Crane Operator	808.8	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Toplander	808.8	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Bottomlander	520.8	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Crane Oiler	756.8	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Concrete Pump Operator	324.8	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Electrician	128	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-17					
LRI-Eastern - 18	Bullgang Foreman	160	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 18	Bullgang Laborer	960	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 18	Mechanic / Welder	160	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 18	Master Mechanic	480	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 18	Shaft Crane Operator	160	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 18	Crane Oiler	160	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 18	Electrician	160	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 18	Hyd Crane Operator	160	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-18					
LRI-Eastern - 19	Shifter	2550	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Lead Miner	2550	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Miner	17100	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Mechanic / Welder	3650	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Shaft Crane Operator	1150	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Toplander	1150	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Bottomlander	1150	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Crane Oiler	1150	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Electrician	3650	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Hyd Crane Operator	900	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	ST2G Mucker Operator	400	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Segment Carrier Operator	2400	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	TBM Operator	2800	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Conveyor Belt Man	1000	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-19					
LRI-Eastern - 20	Bullgang Foreman	37595.58	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Bullgang Laborer	125362.33	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Mechanic / Welder	76039.05	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Miner	202540.7	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Master Mechanic	12372.35	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Shaft Crane Operator	43888.35	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Toplander	43888.35	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Bottomlander	43888.35	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Crane Oiler	43888.35	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Electrician	51326	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Shifter	26582	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Lead Miner	26582	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	TBM Operator	53164	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Conveyor Belt Man	26582	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Utility Truck Operator	25255.58	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Man Transport Truck Operator	85380	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Conveyor Belt Subconsultant	24280	20	Stockton to/from Lower Roberts I Shaft	14

LRI-Eastern - 20	Loader Operator	60700	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	General Laborer	60700	20	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-20					
LRI-Eastern - 21	Shifter	1785	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Lead Miner	1785	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Miner	8980	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Master Mechanic	300	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Mechanic / Welder	2600	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Shaft Crane Operator	1885	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Toplander	1785	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Bottomlander	1785	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Crane Oiler	815	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Electrician	2600	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Hyd Crane Operator	815	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Utility Truck Operator	920	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Forklift Operator	1070	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-21					
LRI-Eastern - 22	Laborer G2 General	20	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 22	Operator G7 Roller, Compactor	20	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 22	Operator G4 Dozer & Push Cat	20	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 22	Operator G4 Scraper	40	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 22	OPERATING ENGINEER FOREMAN	20	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 22	Operator G4 Grade Check	20	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 22	Operator G2 Finish Blade	20	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 22	Teamster G2 Hwy ED 6-8cy, Water<7	20	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-22					
LRI-Eastern - 23	Laborer G2 General	230	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Laborer G2 Concrete Laborer	990	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Laborer G3 Flagman	780	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Operator G2 Excavator 3.5 to 7.0 cy	1320	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Operator G4 Dozer & Push Cat	860	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Operator G4 Scraper	760	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	OPERATING ENGINEER FOREMAN	384.5	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Operator G2 Finish Blade	40	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Operator G3 Loader >4cy	340	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Operator G6 Tractor	163	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Teamster G4 ED 25-65 Cy	330	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-23					

Marine Inventory for Lower Roberts Island - Eastern Tunnel Shaft
Options 2A, 2B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Lower Roberts Island - Eastern Tunnel Shaft
Options 2A, 2B

Code	# day	Locomotive Type	From Depot Site	Delivery Depot	Rail Cars	Rail Cars/Day	Main Railroad	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (If known)
LRI-Eastern - 19	165	Pre Cast Segment 36' ID x 6' Wide	Stockton	Lower Roberts Island Sidetrack	230	1.39	UPRR & BNSF						
LRI-Eastern - 20	1571	Pre Cast Segment 36' ID x 6' Wide	Stockton	Lower Roberts Island Sidetrack	5492	3.50	UPRR & BNSF						

Helicopter Inventory for Lower Roberts Island - Eastern Tunnel Shaft
Options 2A, 2B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Lower Roberts Island - Eastern Tunnel Shaft
Options 2A, 2B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
LRI-Eastern - 1	407	14	29.1			31440	2246				
LRI-Eastern - 5		19		255972.6	13472						
LRI-Eastern - 6	7	20	0.4								
LRI-Eastern - 7	11.6	220	0.1			9361	43				
LRI-Eastern - 8		250				169539	678				
LRI-Eastern - 9		35				5649	161				
LRI-Eastern - 10		18		635	35	334	19				
LRI-Eastern - 11		85		12708	150	12708	169				
LRI-Eastern - 12		66		7675	116						
LRI-Eastern - 13		28				11928	426				
LRI-Eastern - 15		7				852	122				
LRI-Eastern - 17		60				45949	766				
LRI-Eastern - 20		1571		2329373	1483						
LRI-Eastern - 23	23	141	0.2								

**Demolition Assumptions for Lower Roberts Island - Eastern Tunnel Shaft
Options 2A, 2B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Upper Jones Tract - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	UJ-E Access -1	4/21/2026	4/21/2026	1	1	10
Embankment	UJ-E Access -2	4/22/2026	4/23/2026	2	2	10
Culvert Pipe	UJ-E Access -3	4/24/2026	4/24/2026	1	1	10
Subdrain System	UJ-E Access -4	4/27/2026	5/4/2026	6	5	10
Road Base	UJ-E Access -5	5/5/2026	5/11/2026	5	5	10
KRail and Signs	UJ-E Access -6	5/12/2026	5/12/2026	1	1	10
12-month - Intermediate Maintenance	UJ-E Access -7	4/4/2028	4/14/2028	9	5	10
12-month - Final Maintenance	UJ-E Access -8	4/4/2029	4/14/2029	9	5	10

Acres **2.2**

Offroad Equipment (Fossil Fuel) Inventory for Upper Jones Tract - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
UJ-E Access -1	CAT D6LGPDozer w winch	Crawler Tractor	19.97	1	20	Diesel Tier 4 or Hybrid Dies	179	0.43		
UJ-E Access -1	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	9.98	1	10	Diesel	384	0.38		
UJ-E Access -2	CAT D6LGPDozer w winch	Crawler Tractor	17.98	2	9	Diesel Tier 4 or Hybrid Dies	179	0.43		
UJ-E Access -2	Disk, Towed	Off-Highway Tractor	17.98	2	9	Diesel	140	0.44		
UJ-E Access -2	CAT 14 M	Grader	8.99	2	4	Diesel	274	0.41		
UJ-E Access -2	Water Pump, 4" Diesel	Pumps	2.16	2	1	Diesel	10	0.74		
UJ-E Access -2	CAT 815, Roller	Roller	17.98	2	9	Diesel	170	0.38		
UJ-E Access -2	Light Plant, 4 lite, 1000w, Tower/Mast	Generators	71.9	2	36	Diesel	12	0.74		
UJ-E Access -3	Air Compressor 375 cfm	Air Compressor	4.11	1	4	Diesel Tier 4	122	0.48		
UJ-E Access -3	CAT LOADER/HOE 416 E	Rubber Tired Loader	8.22	1	8	Diesel	78	0.36		
UJ-E Access -3	Compactor, Plate, 22" w x 35"	Plate Compactor	4.11	1	4	Diesel	8.5	0.43		
UJ-E Access -4	CAT LOADER/HOE 416 E	Rubber Tired Loader	12.64	6	2	Diesel	78	0.36		
UJ-E Access -4	Compactor, Trench Roller, Vib 32"w	Roller	25.28	6	4	Diesel	20	0.38		
UJ-E Access -5	CAT 14 M	Grader	44.1	5	9	Diesel	274	0.41		
UJ-E Access -5	Water Pump, 4" Diesel	Pumps	44.1	5	9	Diesel	10	0.74		
UJ-E Access -5	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	44.1	5	9	Diesel	156	0.38		
UJ-E Access -6	Boom Truck, 12.5 Tn Boom	Crane	1.84	1	2	Diesel or Hybrid	100	0.29		
UJ-E Access -6	CAT LOADER/HOE 416 E	Rubber Tired Loader	1.84	1	2	Diesel	78	0.36		
UJ-E Access -7	CAT 14 M	Grader	71.89	9	8	Diesel	78	0.36		
UJ-E Access -7	Water Pump, 4" Diesel	Pumps	71.89	9	8	Diesel or Hybrid	224	0.42		
UJ-E Access -8	CAT 14 M	Grader	71.89	9	8	Diesel or Hybrid	137	0.38		
UJ-E Access -8	Water Pump, 4" Diesel	Pumps	71.89	9	8	Diesel or Hybrid	133	0.38		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Upper Jones Tract - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Equipment Name	Units	# day	kWh	kWh/day / equipment
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NOT NEEDED

Vehicle Inventory for Upper Jones Tract - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint w. offset)	# day	Vehicle Hours	Hours/Trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/mile) (if known)	Fuel (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site													
UJ-E Access-1	Pickup, 1/2T, 2wd	Materials from Stockton	1	5	0.4	12	12	Upper Jones Shaft to/from Stockton	13	26	Hybrid Gasoline		
UJ-E Access-1	Truck, Water, 4 mgal, 1hey	Water From Lodi	1	5	1.2	4	4	Upper Jones Shaft to/from Lodi	35	70	Diesel		
UJ-E Access-1	Truck, Flatbed, 10T, 1hey	Doser From Stockton	1	0	0.4	1	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel		
UJ-E Access-1	Truck, Flatbed, 10T, 1hey	Excavator to and from Stockton	2	1	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel		
UJ-E Access-2	Pickup, 1/2T, 2wd	Materials from Stockton	2	18	0.4	41	21	Upper Jones Shaft to/from Stockton	13	26	Hybrid Gasoline		
UJ-E Access-2	Truck, Flatbed, 10T, 1hey	Doser to Stockton	1	0	0.4	1	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel		
UJ-E Access-2	Truck, Flatbed, 10T, 1hey	Grader from Stockton	1	0	0.4	1	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel		
UJ-E Access-2	Truck, Flatbed, 10T, 1hey	Roller to and from Stockton	2	1	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel		
UJ-E Access-2	Truck/ End Dump/ 16-20cy/ 1hey	Gravel from Vernalis	2	157	0.8	188	94	Upper Jones Shaft to/from Vernalis	25	50	Diesel		
UJ-E Access-3	Truck, Flatbed, 10T, 1hey	Materials from Stockton	1	4	0.4	9	9	Upper Jones Shaft to/from Stockton	13	26	Diesel		
UJ-E Access-3	Truck, Flatbed, 10T, 1hey	Loader from Stockton	1	0	0.4	1	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel		
UJ-E Access-3	Truck, Flatbed, 10T, 1hey	Plate Compactor to and from Stockton	2	1	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel		
UJ-E Access-3	Truck/ End Dump/ 16-20cy/ 1hey	Gravel from Vernalis	1	1	0.8	1	1	Upper Jones Shaft to/from Vernalis	25	50	Diesel		
UJ-E Access-4	Truck, End Dump, 10-13cy, 1hey	Materials from Stockton	6	25	0.4	58	10	Upper Jones Shaft to/from Stockton	13	26	Diesel		
UJ-E Access-4	Truck, Flatbed, 10T, 1hey	Roller to and from Stockton	2	1	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel		
UJ-E Access-4	Truck/ End Dump/ 16-20cy/ 1hey	Gravel from Vernalis	6	3	0.8	4	1	Upper Jones Shaft to/from Vernalis	25	50	Diesel		
UJ-E Access-5	Pickup, 3/4T, 4wd	Materials from Stockton	5	44	0.4	102	20	Upper Jones Shaft to/from Stockton	13	26	Hybrid Gasoline		
UJ-E Access-5	Truck, Water, 4 mgal, 1hey	Water From Lodi	5	93	1.2	80	16	Upper Jones Shaft to/from Lodi	35	70	Diesel		
UJ-E Access-5	Truck/ End Dump/ 16-20cy/ 1hey	Base Rock from Vernalis	5	402	0.8	482	96	Upper Jones Shaft to/from Vernalis	25	50	Diesel		
UJ-E Access-5	Truck, Flatbed, 10T, 1hey	Grader to Stockton	1	0	0.4	1	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel		
UJ-E Access-5	Truck, Flatbed, 10T, 1hey	Roller to and from Stockton	2	1	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel		
UJ-E Access-6	Truck, Flatbed, 10T, 1hey	Loader to Stockton	1	0	0.4	1	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel		
UJ-E Access-6	Truck, Flatbed, 10T, 1hey	Cane to and from Stockton	2	1	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel		
UJ-E Access-7	Pickup, 3/4T, 4wd	Materials from Stockton	9	7	0.4	17	2	Upper Jones Shaft to/from Stockton	13	26	Hybrid Gasoline		
UJ-E Access-7	Truck, Flatbed, 10T, 1hey	Grader to and from Stockton	2	1	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel		
UJ-E Access-7	Truck/ End Dump/ 16-20cy/ 1hey	Base Rock from Vernalis	9	273	0.8	327	36	Upper Jones Shaft to/from Vernalis	25	50	Diesel		
UJ-E Access-8	Truck, Flatbed, 10T, 1hey	Grader to and from Stockton	2	1	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel		
UJ-E Access-8	Pickup, 3/4T, 4wd	Materials from Stockton	9	7	0.4	17	2	Upper Jones Shaft to/from Stockton	13	26	Hybrid Gasoline		
UJ-E Access-8	Truck/ End Dump/ 16-20cy/ 1hey	Base Rock from Vernalis	9	273	0.8	327	36	Upper Jones Shaft to/from Vernalis	25	50	Diesel		
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site													
UJ-E Access-1	CAT 730 30T, Articulated End Dump	Dumpers	1	49.62	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		250	Diesel Tier 4 or Hybrid Diesel		
UJ-E Access-2	Cat 50mgp w/Cat 770, 511HP	Dumpers	2	8.99	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		45	Diesel		

Employees Required to Upper Jones Tract - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip
UJ-E Access -1	Operator G4 Dozer & Push Cat	19.97	10		Stockton to/from Upper Jones Shaft	13
UJ-E Access -1	Operator G2 Excavator 3.5 to 7.0	9.98	10		Stockton to/from Upper Jones Shaft	13
UJ-E Access -1	OPERATING ENGINEER FOREMAN	4.99	10		Stockton to/from Upper Jones Shaft	13
UJ-E Access -1	Teamster G3 ED 8-24cy, Water>7	49.92	10		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-E Access-1						
UJ-E Access -2	Laborer G2 General	2.16	10		Stockton to/from Upper Jones Shaft	13
UJ-E Access -2	Operator G5 Compactor w-blade	17.98	10		Stockton to/from Upper Jones Shaft	13
UJ-E Access -2	Operator G4 Dozer & Push Cat	17.98	10		Stockton to/from Upper Jones Shaft	13
UJ-E Access -2	OPERATING ENGINEER FOREMAN	17.98	10		Stockton to/from Upper Jones Shaft	13
UJ-E Access -2	Operator G2 Finish Blade	8.99	10		Stockton to/from Upper Jones Shaft	13
UJ-E Access -2	Teamster G2 Hwy ED 6-8cy, Water<7	8.99	10		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-E Access-2						
UJ-E Access -3	Laborer G1 Pipe layers	16.44	10		Stockton to/from Upper Jones Shaft	13
UJ-E Access -3	Laborer Foreman	4.11	10		Stockton to/from Upper Jones Shaft	13
UJ-E Access -3	Operator G3 BH-Loader>3/4cy	8.22	10		Stockton to/from Upper Jones Shaft	13
UJ-E Access -3	Teamster G1 Hwy ED<6cy, Flatbed	6.17	10		Stockton to/from Upper Jones Shaft	13
UJ-E Access -3	Teamster G2 Hwy ED 6-8cy, Water<7	2.06	10		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-E Access-3						
UJ-E Access -4	Laborer G1 Pipe layers	50.55	10		Stockton to/from Upper Jones Shaft	13
UJ-E Access -4	Laborer G1 Power Tamper	25.28	10		Stockton to/from Upper Jones Shaft	13
UJ-E Access -4	Operator G4 Loader <4.1cy	12.64	10		Stockton to/from Upper Jones Shaft	13
UJ-E Access -4	Teamster G2 Hwy ED 6-8cy, Water<7	25.28	10		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-E Access-4						
UJ-E Access -5	Laborer G3 Flagman	88.2	10		Stockton to/from Upper Jones Shaft	13
UJ-E Access -5	Operator G7 Roller, Compactor	44.1	10		Stockton to/from Upper Jones Shaft	13
UJ-E Access -5	OPERATING ENGINEER FOREMAN	44.1	10		Stockton to/from Upper Jones Shaft	13
UJ-E Access -5	Operator G4 Grade Check	44.1	10		Stockton to/from Upper Jones Shaft	13
UJ-E Access -5	Operator G2 Finish Blade	44.1	10		Stockton to/from Upper Jones Shaft	13
UJ-E Access -5	Operator G8 Generator	8.82	10		Stockton to/from Upper Jones Shaft	13
UJ-E Access -5	Teamster G2 Hwy ED 6-8cy, Water<7	44.1	10		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-E Access-5						
UJ-E Access -6	Iron Worker-Rigger	1.84	10		Stockton to/from Upper Jones Shaft	13
UJ-E Access -6	Laborer G2 General	7.38	10		Stockton to/from Upper Jones Shaft	13
UJ-E Access -6	Operator G4a Boom truck<15 ton	1.84	10		Stockton to/from Upper Jones Shaft	13
UJ-E Access -6	Operator G3 BH-Loader>3/4cy	1.84	10		Stockton to/from Upper Jones Shaft	13
UJ-E Access -6	OPERATING ENGINEER FOREMAN	1.84	10		Stockton to/from Upper Jones Shaft	13
UJ-E Access -6	Teamster G3 Boom Truck	1.84	10		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-E Access-6						
UJ-E Access -7	OPERATING ENGINEER FOREMAN	7.19	10		Stockton to/from Upper Jones Shaft	13
UJ-E Access -7	Operator G2 Finish Blade	71.89	10		Stockton to/from Upper Jones Shaft	13
UJ-E Access -7	Operator G8 Generator	14.38	10		Stockton to/from Upper Jones Shaft	13
UJ-E Access -7	Teamster G2 Hwy ED 6-8cy, Water<7	71.89	10		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-E Access-7						
UJ-E Access -8	OPERATING ENGINEER FOREMAN	7.19	10		Stockton to/from Upper Jones Shaft	13
UJ-E Access -8	Operator G2 Finish Blade	71.89	10		Stockton to/from Upper Jones Shaft	13
UJ-E Access -8	Operator G8 Generator	14.38	10		Stockton to/from Upper Jones Shaft	13
UJ-E Access -8	Teamster G2 Hwy ED 6-8cy, Water<7	71.89	10		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-E Access-8						

Marine Inventory for Upper Jones Tract - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Upper Jones Tract - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

Helicopter Inventory for Upper Jones Tract - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Upper Jones Tract - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
UJ-E Access -1	2.2	1	2.2	1797	1797						
UJ-E Access -2		2				3595	1798				
UJ-E Access -5		5				5292	1058				
UJ-E Access -7		9				3595	399				
UJ-E Access -8		9				3595	399				

Demolition Assumptions for Upper Jones Tract - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

**Construction Schedule for Upper Jones - Eastern Tunnel Shaft
Options 2A, 2B**

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Clear and Grub	UJ-Eastern - 1	10/4/2030	10/25/2030	17	5	10
Ground Improvement	UJ-Eastern - 2	11/15/2030	12/20/2030	26	5	10
Raise Shaft Pad	UJ-Eastern - 3	12/20/2030	12/19/2031	261	5	10
Excavate, Set Strips, & Place Guide Wall	UJ-Eastern - 4	12/19/2031	1/6/2032	14	5	10
Place Guide Walls Concrete	UJ-Eastern - 5	1/6/2032	1/8/2032	3	2	10
Excavate Slurry Wall & Place Concrete & Rebar	UJ-Eastern - 6	1/8/2032	2/17/2032	43	7	24
Slurry Wall including Strip Forms and Place Rebar & Top Beam	UJ-Eastern - 7	2/17/2032	3/31/2032	42	7	24
Excavate Shaft	UJ-Eastern - 8	3/31/2032	5/10/2032	41	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	UJ-Eastern - 9	3/31/2032	5/24/2032	55	7	24
Dewater Shaft	UJ-Eastern - 10	5/24/2032	5/31/2032	8	7	24
Place TBM Cradle Rebar and Cradle Pour	UJ-Eastern - 11	5/31/2032	6/8/2032	9	5	10
Breakout Slurry Wall for TBM	UJ-Eastern - 12	6/8/2032	7/5/2032	20	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	UJ-Eastern - 13	6/8/2032	8/23/2032	33	5	10
Place Shaft Cover	UJ-Eastern - 14	8/31/2032	9/8/2032	7	5	10

Total Site Acres **13.1**

Offroad Equipment (Fossil Fuel) Inventory for Upper Jones - Eastern Tunnel Shaft
Options 2A, 2B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
UJ-Eastern - 1	CAT D8 Dozer	Crawler Tractor	29.16	17	2	Diesel Tier 4 or Hybrid Diesel	179	0.43		
UJ-Eastern - 1	CAT Grader 16H - 16' Blade	Grader	29.16	17	2	Diesel	285	0.41		
UJ-Eastern - 1	623G Scraper Elevate 21 CY	Scraper	58.32	17	3	Diesel	359	0.48		
UJ-Eastern - 2	Air Compressor 375 CFM	Air Compressor	208	26	8	Diesel Tier 4	122	0.48		
UJ-Eastern - 2	Grove RT Crane 30T	Crane	208	26	8	Diesel	160	0.29		
UJ-Eastern - 2	DMM Deep Soil Mixer	Bore Drill Rig	208	26	8	Diesel	522	0.5		
UJ-Eastern - 2	DMM Grout Mix Plant	Other Industrial Equipmen	208	26	8	Diesel	500	0.34		
UJ-Eastern - 2	Portable 90 Kw Diesel	Generators	26	26	1	Diesel Tier 4	158	0.74		
UJ-Eastern - 2	Case 590 SupN Loader	Rubber Tired Loaders	208	26	8	Diesel	110	0.36		
UJ-Eastern - 2	Water Pump 4" Electric	Pumps	492	26	19	Diesel	10	0.74		
UJ-Eastern - 3	CAT CB-634D Vibratory 84"	Rollers	1467.54	261	6	Diesel	145	0.38		
UJ-Eastern - 3	CAT Grader 16H	Graders	1467.54	261	6	Diesel	285	0.41		
UJ-Eastern - 3	CAT D8 Dozer	Crawler Tractor	1467.54	261	6	Diesel	328	0.43		
UJ-Eastern - 4	CAT Hyd Excavator 1CY	Excavator	6.5	14	0	Diesel	138	0.38		
UJ-Eastern - 4	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	6.5	14	0	Diesel or Hybrid	130	0.36		
UJ-Eastern - 6	1600 CFM Compressor Diesel	Air Compressor	270	43	6	Diesel Tier 4	540	0.48		
UJ-Eastern - 6	Hydraulic 55 Ton Crane	Crane	540	43	13	Diesel	350	0.29		
UJ-Eastern - 6	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	270	43	6	Diesel or Hybrid	130	0.36		
UJ-Eastern - 6	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	270	43	6	Diesel	8	0.56		
UJ-Eastern - 6	Slurry Wall Techniwell	Pumps	270	43	6	Diesel	500	0.74		
UJ-Eastern - 6	Manitowoc 777 200 Ton Crane	Crane	345.51	43	8	Diesel	760	0.29		
UJ-Eastern - 7	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	267	42	6	Diesel or Hybrid	130	0.36		
UJ-Eastern - 7	250 CFM Compressor Diesel	Air Compressor	4	42	0.1	Diesel Tier 3	75	0.48		
UJ-Eastern - 7	CAT Hyd Excavator 1CY	Excavator	267	42	6	Diesel	138	0.38		
UJ-Eastern - 8	Manitowoc 777 200 Ton Crane	Crane	231	41	6	Diesel	760	0.29		
UJ-Eastern - 9	Manitowoc 777 200 Ton Crane	Crane	111	55	2	Diesel	760	0.29		
UJ-Eastern - 9	Hydraulic 40 Ton Crane	Crane	36	55	1	Diesel	300	0.29		
UJ-Eastern - 9	Hydraulic 25 Ton Crane	Crane	76.47	55	1	Diesel	100	0.29		
UJ-Eastern - 10	Dewater Pump 6"	Pump	400	8	50	Diesel	50	0.74		
UJ-Eastern - 10	150 KW Diesel Generator	Generator	100	8	13	Diesel Tier 4	183	0.74		
UJ-Eastern - 10	Hydraulic 15 Ton Crane	Crane	100	8	13	Diesel	100	0.29		
UJ-Eastern - 11	Manitowoc 777 200 Ton Crane	Crane	35.2	9	4	Diesel	760	0.29		
UJ-Eastern - 11	250 CFM Compressor Diesel	Air Compressor	8.2	9	1	Diesel Tier 3	75	0.48		
UJ-Eastern - 11	Trailer Conc Pump 100 CY HR	Pump	8.2	9	1	Diesel	200	0.74		
UJ-Eastern - 12	250 CFM Compressor Diesel	Air Compressor	118.67	20	6	Diesel Tier 3	75	0.48		
UJ-Eastern - 12	Manitowoc 777 200 Ton Crane	Crane	118.67	20	6	Diesel	760	0.29		
UJ-Eastern - 13	Hydraulic 9 Ton Crane	Crane	60	33	2	Diesel	85	0.29		
UJ-Eastern - 13	250 CFM Compressor Diesel	Air Compressor	495.19	33	15	Diesel Tier 3	75	0.48		
UJ-Eastern - 13	Trailer Conc Pump 100 CY HR	Pump	321.16	33	10	Diesel	200	0.74		
UJ-Eastern - 13	Manitowoc 777 200 Ton Crane	Crane	102	33	3	Diesel	760	0.29		
UJ-Eastern - 13	Manitowoc 999-275 Ton Crane	Crane	128.33	33	4	Diesel	900	0.29		
UJ-Eastern - 14	Hydraulic 9 Ton Crane	Crane	50	7	7	Diesel	85	0.29		
UJ-Eastern - 14	Hydraulic 40 Ton Crane	Crane	50	7	7	Diesel	300	0.29		
UJ-Eastern - 14	CAT Forklift 5,500 LB	Aerial Lift	50	7	7	Diesel	63	0.31		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Upper Jones - Eastern Tunnel Shaft
Options 2A, 2B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
UJ-Eastern - 13	Axial Fan 114,000 CFM	60	33	50	91

Vehicle Inventory for Upper Jones - Eastern Tunnel Shaft
Options 2A, 2B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/Trip	# of Vehicles Trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
UJ-Eastern - 1	Truck, Flatbed, 10T, Hwy	Scrapper to and from Stockton	2	0.9	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 1	Truck, Flatbed, 10T, Hwy	Dozer and Grader from Stockton	1	0.9	0.4	2	2.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 2	Pickup 1/2T 2 WD	Materials from Stockton	26	492.0	0.4	1135	44	Upper Jones Shaft to/from Stockton	13	26	Hybrid Gasoline	
UJ-Eastern - 2	Truck Flatbed 4 T Highway	Materials from Stockton	26	492.0	0.4	1135	44	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 2	Mechanic Truck	Materials from Stockton	26	492.0	0.4	1135	44	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 2	Truck, Flatbed, 10T, Hwy	Crane, Loader, & Other Equipment to and from Stockton	2	2.6	0.4	6	3.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 3	Highway Dump Truck 18 CY	Materials from Stockton	261	1467.5	0.4	3387	13	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 3	Truck/ End Dump/ 16-20cy/ Hwy	Soil Material in Covered Trucks from Lower Roberts Launch Shaft	261	2153.0	0.5	4306	16	Upper Jones Shaft to/from Lower Roberts Launch Shaft	15	30	Diesel	
UJ-Eastern - 3	Truck, Flatbed, 10T, Hwy	Roller to and from Stockton	2	0.9	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 3	Truck, Flatbed, 10T, Hwy	Dozer and Grader to Stockton	1	0.9	0.4	2	2.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 3	Truck, Flatbed, 10T, Hwy	Materials from Stockton	261	43.8	0.4	101	0.4	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 4	Truck, Flatbed, 10T, Hwy	Excavator and Loader from Stockton	1	0.9	0.4	2	2.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 4	Truck Flatbed 4 T Highway	Rebar from Livermore	14	1.3	1.3	1	0	Upper Jones Shaft to/from Livermore	38	76	Diesel	
UJ-Eastern - 4	Concrete Transit Mix Truck* 12cy	Concrete from Stockton	14	11.3	0.4	26	2	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 5	Concrete Transit Mix Truck* 12cy	Concrete from Stockton	3	308.1	0.4	711	237	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 6	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	43	390.0	2.0	195	5	Upper Jones Shaft to/from Sacramento	60	120	Diesel	
UJ-Eastern - 6	Truck Flatbed 4 T Highway	Rebar from Livermore	43	39.3	1.3	31	1	Upper Jones Shaft to/from Livermore	38	76	Diesel	
UJ-Eastern - 6	Concrete Transit Mix Truck* 12cy	Concrete from Stockton	43	262.6	0.4	606	14	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	0.9	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	0.4	0.4	1	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 7	Truck, Flatbed, 10T, Hwy	Excavator and Loader to Stockton	1	0.9	0.4	2	2.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 7	Truck Flatbed 4 T Highway	Rebar from Livermore	42	1.3	1.3	1	0	Upper Jones Shaft to/from Livermore	38	76	Diesel	
UJ-Eastern - 7	Concrete Transit Mix Truck* 12cy	Concrete from Stockton	42	5.2	0.4	12	0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 8	Concrete Transit Mix Truck* 12cy	5000 psi Concrete from Stockton	55	4.8	0.4	11	0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 9	Truck Flatbed 4 T Highway	Rebar from Livermore	55	8.9	1.3	7	0	Upper Jones Shaft to/from Livermore	38	76	Diesel	
UJ-Eastern - 9	Concrete Transit Mix Truck* 12cy	Concrete from Stockton	55	209.7	0.4	484	9	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 9	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	0.9	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 9	Truck, Flatbed, 10T, Hwy	Cranes from Stockton	1	0.4	0.4	1	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 10	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	0.9	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 11	Truck Flatbed 4 T Highway	Rebar from Livermore	9	1.3	1.3	1	0.1	Upper Jones Shaft to/from Livermore	38	76	Diesel	
UJ-Eastern - 11	Concrete Transit Mix Truck* 12cy	Concrete from Stockton	9	15.2	0.4	35	4	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 13	Truck Flatbed 4 T Highway	Rebar from Livermore	33	2.5	1.3	2	0.1	Upper Jones Shaft to/from Livermore	38	76	Diesel	
UJ-Eastern - 13	Concrete Transit Mix Truck* 12cy	Concrete from Stockton	33	158.2	0.4	365	11	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	0.4	0.4	1	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	0.9	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 14	Truck, Flatbed, 10T, Hwy	Forklift to and from Stockton	2	0.9	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 14	Truck Flatbed 4 T Highway	Materials from Stockton	7	50.0	0.4	115	16	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 14	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	0.4	0.4	1	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site										Miles On-Site		
UJ-Eastern - 4	CAT 730 Rear Dump	Dumper	14	20.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		100	Diesel or Hybrid	
UJ-Eastern - 6	CAT 730 Rear Dump	Dumper	43	286.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1435	Diesel or Hybrid	
UJ-Eastern - 6	Articulated Rear Dump 22 CY/CAT 730	Dumper	43	251.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1258	Diesel or Hybrid	
UJ-Eastern - 6	Concrete Ponto Truck	Off-Highway Truck	43	540.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2700	Diesel	
UJ-Eastern - 8	Trucking Off Highway CAT 730	Dumpers	41	1155.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		5775	Diesel	
UJ-Eastern - 9	Concrete Pump Truck	Off-Highway Truck	55	76.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		380	Diesel	

Employees Required to Upper Jones - Eastern Tunnel Shaft
Options 2A, 2B

Code	Employee Type	Hours	# WorkDay		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
UJ-Eastern - 1	General Foreman	14.58	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 1	Dozer Operator	29.16	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 1	Grader Operator	29.16	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 1	Operator G4 Grade Check	14.58	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 1	Scraper Operator	58.32	10		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-1						
UJ-Eastern - 2	Laborer G2 General	1476	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 2	Operator G3a Crane	492	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 2	Operator G3 BH Loader	492	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 2	Operating Engineer	492	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 2	Operator G4 Grade Check	492	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 2	Operator G4 Heavy Duty Mechanic	492	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 2	Operator G2 Plant Operator	984	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 2	Teamster G1 Hwy	492	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 2	Teamster G2 Hwy	492	10		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-2						
UJ-Eastern - 3	Grade Setter / Checker	1467.54	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 3	Water Truck Highway	1467.54	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 3	Compactor Operator	1467.54	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 3	Dozer Operator	1467.54	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 3	Grader Operator	1467.54	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 3	Truck Driver	1467.54	10		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-3						
UJ-Eastern - 4	Shifter	6.5	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 4	Lead Miner	6.5	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 4	Miner	6.5	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 4	Loader Operator	6.5	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 4	Excavator Operator	6.5	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 4	Truck Driver	19.44	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 4	Carpenter	386.4	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 4	Carpenter Foreman	96.6	10		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-4						
UJ-Eastern - 5	General Laborer	11.92	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 5	Carpenter	103.83	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 5	Carpenter Foreman	43.84	10		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-5						
UJ-Eastern - 6	General Laborer	2878.43	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	General Foreman	521.69	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Mechanic Welder	521.69	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Shaft Crane Operator	521.69	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Crane Oiler	521.69	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Truck Driver	503.37	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Shifter	810	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Lead Miner	270	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Miner	2160	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Hyd Crane Operator	540	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Loader Operator	270	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Slurry Wall Consultant	270	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Iron Worker Foreman	540	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Iron Worker	2700	24		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-6						
UJ-Eastern - 7	Hydraulic Excavator to 3.5	267	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 7	Loader Operator	267	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 7	Excavator Operator	267	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 7	Hyd Track Drill	267	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 7	General Laborer	833.68	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 7	General Foreman	267	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 7	Carpenter	40	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 7	Carpenter Foreman	10	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 7	Iron Worker Foreman	12.68	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 7	Iron Worker	50.74	24		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-7						
UJ-Eastern - 8	Diver Contractor	220	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 8	Shaft Crane Operator	231	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 8	Toplander	231	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 8	Crane Oiler	231	24		Stockton to/from Upper Jones Shaft	13

TOTAL UJ-Eastern-8

UJ-Eastern - 9	Diver Contractor	138.74	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 9	Shifter	166.12	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 9	Lead Miner	19.12	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 9	Miner	446.95	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 9	Hyd Crane Operator	112.47	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 9	Toplander	255	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 9	Bottomlander	111	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 9	Shaft Crane Operator	111	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 9	Iron Worker Foreman	147	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 9	Iron Worker	1176	24	Stockton to/from Upper Jones Shaft	13

TOTAL UJ-Eastern-9

UJ-Eastern - 10	Shifter	100	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 10	Lead Miner	100	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 10	Miner	800	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 10	Hyd Crane Operator	100	24	Stockton to/from Upper Jones Shaft	13

TOTAL UJ-Eastern-10

UJ-Eastern - 11	Shifter	35.2	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Miner	119.6	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Shaft Crane Operator	35.2	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Toplander	35.2	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Crane Oiler	35.2	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Iron Worker	216	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Iron Worker Foreman	27	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Lead Miner	8.2	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Mechanic Welder	8.2	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Electrician	8.2	10	Stockton to/from Upper Jones Shaft	13

TOTAL UJ-Eastern-11

UJ-Eastern - 12	Shaft Crane Operator	118.67	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 12	Toplander	118.67	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 12	Bottomlander	118.67	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 12	Crane Oiler	118.67	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 12	Iron Worker	949.36	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 12	Iron Worker Foreman	118.67	10	Stockton to/from Upper Jones Shaft	13

TOTAL UJ-Eastern-12

UJ-Eastern - 13	Shifter	495.19	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Lead Miner	495.19	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Miner	3861.55	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Mechanic / Welder	430.89	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Electrician	264.86	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Hyd Crane Operator	60	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Shaft Crane Operator	230	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Toplander	230	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Bottomlander	102	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Crane Oiler	178	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Concrete Pump Operator	64.3	10	Stockton to/from Upper Jones Shaft	13

TOTAL UJ-Eastern-13

UJ-Eastern - 14	Bullgang Foreman	50	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 14	Bullgang Laborer	100	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 14	Mechanic / Welder	50	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 14	Hyd Crane Operator	100	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 14	Flat Truck Driver	50	10	Stockton to/from Upper Jones Shaft	13

TOTAL UJ-Eastern-14

Marine Inventory for Upper Jones - Eastern Tunnel Shaft
Options 2A, 2B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Upper Jones - Eastern Tunnel Shaft
Options 2A, 2B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Upper Jones - Eastern Tunnel Shaft
Options 2A, 2B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Upper Jones - Eastern Tunnel Shaft
Options 2A, 2B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
UJ-Eastern - 1	13.1	17	1								
UJ-Eastern - 3		261				64588	247				
UJ-Eastern - 5		3				238.4	79				
UJ-Eastern - 6		43				6752	157				
UJ-Eastern - 7		42				114	3				
UJ-Eastern - 8		41		4592	112						
UJ-Eastern - 9		55				4592	83				
UJ-Eastern - 11		9				328	36				
UJ-Eastern - 13		33				3420	104				

**Demolition Assumptions for Upper Jones - Eastern Tunnel Shaft
Options 2A, 2B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Bethany Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Excavation	BethanyPR-1	10/29/2026	11/3/2026	5	5	10
Culvert Pipe	BethanyPR-2	11/4/2026	11/4/2026	1	1	10
Subdrain System	BethanyPR-3	11/5/2026	11/5/2026	1	1	10
Road Base	BethanyPR-4	11/6/2026	11/9/2026	4	4	10
Asphalt Paving	BethanyPR-5	11/10/2026	11/11/2026	2	2	10
Electrical, Striping, and K-Rail Installation	BethanyPR-6	11/12/2026	11/12/2026	1	1	10

Acres2.6

Construction Schedule for Byron Park and Ride

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	BPR -1	8/18/2026	9/4/2026	13	5	10
Embankment	BPR -2	9/7/2026	9/8/2026	2	2	10
Culvert Pipe	BPR -3	9/9/2026	9/14/2026	3	3	10
Subdrain System	BPR -4	9/15/2026	9/21/2026	5	5	10
Road Base	BPR -5	9/22/2026	10/8/2026	12	5	10
Asphalt Paving	BPR -6	10/9/2026	10/23/2026	10	5	10
Electrical, Striping, and K-Rail Installation	BPR -7	10/26/2026	10/29/2026	3	3	10

Acres

2.91

Construction Schedule for Bruns Complex Rds - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	BrCmplxRd-C&E Access -1	3/12/2027	3/15/2027	4	4	10
Embankment	BrCmplxRd-C&E Access -2	3/16/2027	3/16/2027	1	1	10
Culvert Pipe	BrCmplxRd-C&E Access -3	3/17/2027	3/17/2027	1	1	10
Bridge over Byron Highway	BrCmplxRd-C&E Access -4	3/17/2027	6/1/2027	54	5	10
Subdrain System	BrCmplxRd-C&E Access -5	3/18/2027	3/22/2027	5	5	10
Road Base	BrCmplxRd-C&E Access -6	3/23/2027	3/24/2027	2	2	10
Asphalt Paving	BrCmplxRd-C&E Access -7	6/2/2027	6/3/2027	2	2	10
KRail and Signs	BrCmplxRd-C&E Access -8	6/4/2027	6/4/2027	1	1	10
Intermediate Overlay	BrCmplxRd-C&E Access -9	5/13/2030	5/14/2030	2	2	10
Final Overlay	BrCmplxRd-C&E Access -10	6/29/2037	7/1/2037	3	3	10

Acres

5.3

Construction Schedule for Discovery Bay Rd Extension - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	DBExt-C&E Access -1	11/10/2026	11/13/2026	4	4	10
Embankment	DBExt-C&E Access -2	11/16/2026	11/20/2026	5	5	10
Culvert Pipe	DBExt-C&E Access -3	11/23/2026	11/24/2026	2	2	10
Subdrain System	DBExt-C&E Access -4	11/25/2026	12/7/2026	10	5	10
Road Base	DBExt-C&E Access -5	12/8/2026	12/22/2026	11	5	10
Asphalt Paving	DBExt-C&E Access -6	12/23/2026	12/30/2026	6	5	10
KRail and Signs	DBExt-C&E Access -7	12/31/2026	12/31/2026	1	1	10
Intermediate Overlay	DBExt-C&E Access -8	5/7/2030	5/8/2030	2	2	10
Final Overlay	DBExt-C&E Access -9	6/8/2037	6/10/2037	3	3	10

Acres

4.6

Construction Schedule for Western Farm Rd - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	WFRd-C&E Access -1	10/9/2026	10/14/2026	5	5	10
Embankment	WFRd-C&E Access -2	10/15/2026	10/19/2026	5	5	10
Culvert Pipe	WFRd-C&E Access -3	10/20/2026	10/20/2026	1	1	10
Subdrain System	WFRd-C&E Access -4	10/21/2026	10/27/2026	5	5	10
Road Base	WFRd-C&E Access -5	10/28/2026	11/9/2026	11	5	10
Asphalt Paving	WFRd-C&E Access -6	11/10/2026	11/17/2026	6	5	10
KRail and Signs	WFRd-C&E Access -7	11/18/2026	11/18/2026	1	1	10
Intermediate Overlay	WFRd-C&E Access -8	5/20/2030	5/21/2030	2	2	10
Final Overlay	WFRd-C&E Access -9	6/10/2037	6/12/2037	3	3	10

Acres

2

Construction Schedule for Southern Complex on Byron Tract - Eastern						
Option 2						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Rail Features in Northern Southern Forebay	SF - Eastern - 1	1/5/2026	10/22/2026	208	5	10
Rail Features in the Southern portion of Southern Forebay	SF - Eastern - 2	1/5/2026	4/2/2027	324	5	10
Rail Yard	SF - Eastern - 3	3/30/2026	3/19/2027	252	5	10
Byron Highway Interchange	SF - Eastern - 4	4/27/2026	3/11/2027	228	5	10
Pumping Plant Initial Site Work	SF - Eastern - 5	7/9/2027	8/6/2027	21	5	10
Pumping Plant Ground Improvement	SF - Eastern - 6	7/23/2027	3/14/2028	169	5	10
Pumping Plant Construction Phase 1	SF - Eastern - 7	3/31/2027	2/27/2029	500	5	10
Pumping Plant Contractor Operations	SF - Eastern - 8	7/9/2027	7/30/2032	1321	5	10
Pumping Plant Substation	SF - Eastern - 9	12/21/2029	10/30/2030	225	5	10
Pumping Plant Structure Phase 1	SF - Eastern - 10	3/17/2027	7/13/2027	85	5	10
Pumping Plant Structure Phase 2	SF - Eastern - 11	12/21/2029	2/5/2031	296	5	10
Pumping Plant Structure Phase 3	SF - Eastern - 12	11/1/2030	8/22/2033	731	5	10
Pumping Plant Wet Well	SF - Eastern - 13	2/6/2031	6/16/2034	876	5	10
Pumping Plant Outlet Structure	SF - Eastern - 14	5/18/2032	11/17/2034	671	5	10
Pumping Plant Dissipation Slab Phase 1A	SF - Eastern - 15A	10/27/2031	9/27/2032	241	5	10
Pumping Plant Dissipation Slab Phase 1B	SF - Eastern - 15B	8/22/2034	1/15/2036	366	5	10
Pumping Plant Electrical Building	SF - Eastern - 16	8/22/2034	4/5/2035	163	5	10
Pumping Plant Generator Building	SF - Eastern - 17	4/5/2035	5/21/2035	34	5	10
Pumping Plant HVAC	SF - Eastern - 18	4/26/2035	6/7/2035	31	5	10
Pumping Plant Finish Site Work	SF - Eastern - 19	4/5/2035	8/11/2036	354	5	10
Pumping Plant Finish Work Phase 1	SF - Eastern - 20	3/10/2033	1/28/2036	754	5	10
Pumping Plant Finish Work Phase 2	SF - Eastern - 21	10/13/2031	7/9/2035	984	5	10
Pumping Plant Pumping Equipment	SF - Eastern - 22	12/12/2035	11/19/2036	246	5	10
Southern Forebay Site Preparation	SF - Eastern - 23	4/26/2028	12/7/2028	185	5	10
Southern Forebay Clear and Grub	SF - Eastern - 24	4/26/2028	1/4/2029	181	5	10
Southern Forebay Foundations	SF - Eastern - 25	6/7/2028	12/7/2029	391	5	10
Southern Forebay Embankments	SF - Eastern - 26	4/26/2030	7/6/2035	1355	5	10
Southern Forebay Soil Materials Handling	SF - Eastern - 27	6/7/2028	2/20/2035	1748	5	10
Southern Forebay Temporary Facilities During Construction	SF - Eastern - 28	3/1/2028	5/13/2036	2176	5	10
Southern Forebay Emnbankment Finish Work	SF - Eastern - 29	7/6/2035	2/7/2036	275	5	10
Southern Forebay Spillway	SF - Eastern - 30	7/27/2034	4/12/2035	185	5	10
Southern Forebay Outlet Structure	SF - Eastern - 31	1/27/2034	1/28/2036	522	5	10
Southern Forebay Inlet Structure	SF - Eastern - 32	4/12/2035	10/19/2035	137	5	10
Tunnel Launch Shaft Site Preparation for Shafts from Southern Forebay to South Delta Conveyance	SF - Eastern - 33	11/21/2029	11/14/2030	263	5	10
Raise Tunnel Eastern Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5E)	SF - Eastern - 34	11/21/2029	11/5/2032	771	5	10
Finalize Tunnel Eastern Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5E)	SF - Eastern - 35	4/18/2031	8/19/2031	90	5	10
Construct Tunnel from Eastern Shaft at Southern Forebay Outlet to South Delta Conveyance (called Shaft 5E)	SF - Eastern - 36	8/20/2031	9/24/2032	343	6	20
Finish Work for Tunnel Eastern Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5E)	SF - Eastern - 37	9/27/2032	11/15/2032	36	5	10
Raise Tunnel Western Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5W)	SF - Eastern - 38	7/31/2030	4/6/2034	952	5	10
Finalize Tunnel Western Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5W)	SF - Eastern - 39	11/28/2031	12/20/2032	277	5	10
Construct Tunnel from Western Shaft at Southern Forebay Outlet to South Delta Conveyance (called Shaft 5W)	SF - Eastern - 40	12/21/2032	4/21/2034	418	6	20
Finish Work for Tunnel Western Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5W)	SF - Eastern - 41	3/3/2034	4/21/2034	38	5	10
Tunnel Launch Shaft Site Preparation for Shaft at Northern portion of Southern Forebay	SF - Eastern - 42	10/12/2029	11/8/2038	2367	5	10
Raise Tunnel Shaft at Northern portion of Southern Forebay	SF - Eastern - 43	7/26/2030	6/25/2031	240	5	10
Finalize Tunnel Shaft at Northern portion of Southern Forebay	SF - Eastern - 44	6/25/2031	10/31/2031	93	5	10
Tunnel Launch Working Shaft Site Preparation at Northern portion of Southern Forebay	SF - Eastern - 45	12/7/2029	7/26/2030	166	5	10
Raise Tunnel Working Shaft at Northern portion of Southern Forebay	SF - Eastern - 46	3/8/2030	11/18/2031	446	5	10
Finalize Tunnel Working Shaft at Northern portion of Southern Forebay	SF - Eastern - 47	11/18/2031	2/9/2032	60	5	10
Construct Tunnel from Southern Forebay to Reception Shaft	SF - Eastern - 48	10/31/2031	8/2/2038	2113	6	20

Total Site Acres	1700					
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**Vehicle Inventory for Southern Complex on Byron Tract - Eastern
Option 2**

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
SF - Eastern - 1	Air Compressor 185 cfm	Air Compressor	8.9	208	0.0	Diesel Tier 4	49	0.48		
SF - Eastern - 1	CAT Forklift 5,500 LB	Aerial Lift	799.7	208	3.8	Diesel	63	0.31		
SF - Eastern - 1	Grove RT Crane 30T	Crane	319.9	208	1.5	Diesel	160	0.29		
SF - Eastern - 1	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	4.4	208	0.0	Diesel	75	0.31		
SF - Eastern - 1	Boom Truck, 12.5 Tn Boom	Crane	4.4	208	0.0	Diesel or Hybrid	100	0.29		
SF - Eastern - 2	Air Compressor 185 cfm	Air Compressor	44.4	324	0.1	Diesel Tier 4	49	0.48		
SF - Eastern - 2	Boom Truck, 12.5 Tn Boom	Crane	22.2	324	0.1	Diesel or Hybrid	100	0.29		
SF - Eastern - 2	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	22.2	324	0.1	Diesel	75	0.31		
SF - Eastern - 2	CAT Forklift 5,500 LB	Aerial Lift	4000.3	324	12.3	Diesel	63	0.31		
SF - Eastern - 2	Grove RT Crane 55T, 247 hp	Crane	1600.1	324	4.9	Diesel	247	0.29		
SF - Eastern - 3	CAT 14 M	Grader	853.3	252	3.4	Diesel	274	0.41		
SF - Eastern - 3	CAT 825, Roller	Roller	466.1	252	1.8	Diesel	315	0.38		
SF - Eastern - 3	CAT 962 H Wheel Loader	Rubber Tired Loader	620.2	252	2.5	Diesel	230	0.36		
SF - Eastern - 3	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	620.2	252	2.5	Diesel	158	0.38		
SF - Eastern - 3	CAT D6LGPDozer w winch	Crawler Tractor	1799.2	252	7.1	Diesel or Hybrid	179	0.43		
SF - Eastern - 3	CAT LOADER/HOE 416 E	Rubber Tired Loaders	2613.1	252	10.4	Diesel	78	0.36		
SF - Eastern - 3	Compactor, Trench Roller, Vib 32" w	Rollers	378.7	252	1.5	Diesel	20	0.38		
SF - Eastern - 3	Disk, Towed	Off Highway Tractor	466.1	252	1.8	Diesel	140	0.44		
SF - Eastern - 3	Grove RT Crane 55T, 247 hp	Crane	2423.8	252	9.6	Diesel	247	0.29		
SF - Eastern - 3	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	363.6	252	1.4	Diesel	384	0.38		
SF - Eastern - 3	Light Plant, 4 lite, 1000w, Tower/Mast	Generator	1864.4	252	7.4	Diesel	12	0.74		
SF - Eastern - 3	Water Pump, 4" Diesel	Pumps	180	252	0.7	Diesel	10	0.74		
SF - Eastern - 4	Air Compressor 375 cfm	Air Compressor	30.4	228	0.1	Diesel Tier 4	122	0.48		
SF - Eastern - 4	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	311.9	228	1	Diesel or Hybrid	224	0.42		
SF - Eastern - 4	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	311.9	228	1	Diesel or Hybrid	137	0.38		
SF - Eastern - 4	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	311.9	228	1	Diesel or Hybrid	133	0.38		
SF - Eastern - 4	CAT 14 M	Grader	646.9	228	2.8	Diesel	274	0.41		
SF - Eastern - 4	CAT 815, Roller	Roller	203.4	228	0.9	Diesel	170	0.38		
SF - Eastern - 4	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	545.3	228	2.4	Diesel	158	0.38		
SF - Eastern - 4	CAT D6LGPDozer w winch	Crawler Tractor	470.7	228	2.1	Diesel or Hybrid	179	0.43		
SF - Eastern - 4	CAT LOADER/HOE 416 E	Rubber Tired Loaders	477.9	228	2.1	Diesel	78	0.36		
SF - Eastern - 4	Compactor, Plate, 22" w x 35"	Plate Compactors	30.4	228	0.1	Diesel	8.5	0.43		
SF - Eastern - 4	Compactor, Trench Roller, Vib 32" w	Rollers	140	228	0.6	Diesel	20	0.38		
SF - Eastern - 4	Disk, Towed	Off Highway Tractor	203.4	228	0.9	Diesel	140	0.44		
SF - Eastern - 4	Grove RT Crane 55T, 247 hp	Crane	1424.2	228	6.2	Diesel	247	0.29		
SF - Eastern - 4	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	267.3	228	1.2	Diesel	384	0.38		
SF - Eastern - 4	Manitowoc 555 150T, 250' Boom Water Pump, 4" Diesel	Crane	1424.2	228	6.2	Diesel	760	0.29		
SF - Eastern - 4		Pumps	569.7	228	2.5	Diesel	10	0.74		
SF - Eastern - 5	CAT 14 M	Grader	288.3	21	13.7	Diesel	274	0.41		
SF - Eastern - 5	CAT 988 H Wheel Loader	Rubber Tired Loader	104.1	21	5.0	Diesel	400	0.36		
SF - Eastern - 5	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	104.1	21	5.0	Diesel	158	0.38		
SF - Eastern - 5	CAT D3 LGF, Dozer	Crawler Tractor	160	21	7.6	Diesel or Hybrid	76	0.43		
SF - Eastern - 5	CAT D6LGPDozer w winch	Crawler Tractor	160	21	7.6	Diesel or Hybrid	179	0.43		
SF - Eastern - 5	CAT IT28H, 10640 LB Tool Carrier Water Pump, 6" Diesel	Rubber Tired Loaders	160	21	7.6	Diesel	145	0.36		
SF - Eastern - 5		Pumps	104.1	21	5.0	Diesel	13	0.74		
SF - Eastern - 5	Water Pump, 3" Gas, Diaphragm	Pumps	160	21	7.6	Gasoline	10	0.74		
SF - Eastern - 6	Air Compressor 185 cfm	Air Compressor	790.9	169	4.7	Diesel Tier 4	49	0.48		
SF - Eastern - 6	Air Compressor 375 cfm	Air Compressor	12675	169	75	Diesel Tier 4	122	0.48		
SF - Eastern - 6	Boom Truck, 12.5 Tn Boom	Crane	395.5	169	2.3	Diesel or Hybrid	100	0.29		
SF - Eastern - 6	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	12675	169	75	Diesel	110	0.36		
SF - Eastern - 6	DMM Deep Soil Mixer, 3 Shaft, 808 HP	Bore Drill Rigs	12675	169	75	Diesel	808	0.5		
SF - Eastern - 6	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	12675	169	75	Diesel	500	0.34		
SF - Eastern - 6	Grove RT Crane 30T	Crane	12675	169	75	Diesel	160	0.29		
SF - Eastern - 6	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	395.5	169	2.3	Diesel	75	0.31		
SF - Eastern - 6	Portable, 90 Kw, Diesel, 158HP	Welders	1183	169	7	Diesel Tier 4	158	0.45		
SF - Eastern - 7	Air Compressor 185 cfm	Air Compressor	2924.3	500	5.8	Diesel Tier 4	49	0.48		
SF - Eastern - 7	Boom Truck, 12.5 Tn Boom	Crane	1462.2	500	2.9	Diesel or Hybrid	100	0.29		
SF - Eastern - 7	CAT 14 M	Grader	80	500	0.2	Diesel	274	0.41		
SF - Eastern - 7	Cat 613 C Self Loading Scraper	Scraper	160	500	0.3	Diesel	187	0.48		
SF - Eastern - 7	CAT 950 H Wheel Loader	Rubber Tired Loaders	800	500	1.6	Diesel or Hybrid	130	0.36		
SF - Eastern - 7	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	80	500	0.2	Diesel	158	0.38		
SF - Eastern - 7	CAT D6LGPDozer w winch	Crawler Tractor	80	500	0.2	Diesel or Hybrid	179	0.43		
SF - Eastern - 7	CAT LOADER/HOE 416 E	Rubber Tired Loaders	7800	500	15.6	Diesel	78	0.36		
SF - Eastern - 7	Compactor, Plate, 22" w x 35"	Plate Compactors	400	500	0.8	Diesel	8.5	0.43		
SF - Eastern - 7	Disk, Towed	Off Highway Tractor	7800	500	15.6	Diesel	140	0.44		
SF - Eastern - 7	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	3900	500	7.8	Diesel	80	0.44		
SF - Eastern - 7	Grove RT Crane 30T	Crane	140.9	500	0.3	Diesel	160	0.29		
SF - Eastern - 7	Grove RT Crane 80T, 275hp	Crane	140.9	500	0.3	Diesel	275	0.29		
SF - Eastern - 7	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	1532.6	500	3.1	Diesel	75	0.31		
SF - Eastern - 7	Water Pump, 4" Diesel	Pumps	80	500	0.2	Diesel	10	0.74		
SF - Eastern - 8	Air Compressor 900 cfm	Air Compressor	10400	1321	7.9	Diesel Tier 4	300	0.48		
SF - Eastern - 8	CAT 12 M	Grader	1432.8	1321	1.1	Diesel	173	0.41		
SF - Eastern - 8	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	1432.8	1321	1.1	Diesel	158	0.38		
SF - Eastern - 8	CAT LOADER/HOE 416 E	Rubber Tired Loaders	7164.2	1321	5.4	Diesel	78	0.36		
SF - Eastern - 8	Manitowoc 999-275 Ton Crane	Crane	20800	1321	15.7	Diesel	900	0.29		
SF - Eastern - 8	Portable, 90 Kw, Diesel, 158HP	Welders	20800	1321	15.7	Diesel Tier 4	158	0.45		
SF - Eastern - 8	Trk Crane, 200tn Hyd, 197bm, 563hp	Crane	20800	1321	15.7	Diesel	563	0.29		
SF - Eastern - 9	400A Diesel Welder, Trailer Mounted	Welders	340	225	1.5	Diesel	22	0.45		
SF - Eastern - 9	Air Compressor 185 cfm	Air Compressor	1000	225	4.4	Diesel Tier 4	49	0.48		
SF - Eastern - 9	Air Compressor 900 cfm	Air Compressor	1000	225	4.4	Diesel Tier 4	300	0.48		
SF - Eastern - 9	Boom Truck, 12.5 Tn Boom	Crane	1000	225	4.4	Diesel or Hybrid	100	0.29		
SF - Eastern - 9	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	533.3	225	2.4	Diesel	110	0.36		
SF - Eastern - 9	CAT 12 M	Grader	6.3	225	0.0	Diesel	173	0.41		
SF - Eastern - 9	CAT 950 H Wheel Loader	Rubber Tired Loaders	616.7	225	2.7	Diesel or Hybrid	130	0.36		
SF - Eastern - 9	CAT 973 Track Loader, 4.2 cy, 263hp	Skid Loader	40	225	0.2	Diesel or Hybrid	210	0.37		
SF - Eastern - 9	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	83.3	225	0.4	Diesel	158	0.38		
SF - Eastern - 9	CAT D3 LGF, Dozer	Crawler Tractor	83.3	225	0.4	Diesel or Hybrid	76	0.43		
SF - Eastern - 9	CAT D6LGPDozer w winch	Crawler Tractor	25	225	0.1	Diesel or Hybrid	179	0.43		
SF - Eastern - 9	Compactor, Plate, 22" w x 35"	Plate Compactors	266.7	225	1.2	Diesel	8.5	0.43		
SF - Eastern - 9	Concrete Vibrator, 2"	Other Construction Eq	600	225	2.7	Gasoline	3	0.42		
SF - Eastern - 9	Grove RT Crane 30T	Crane	1000	225	4.4	Diesel	160	0.29		

SF - Eastern - 9	Grove RT Crane 55T, 247 hp	Crane	190	225	0.8	Diesel	247	0.29
SF - Eastern - 9	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	25	225	0.1	Diesel	384	0.38
SF - Eastern - 9	Manitowoc 555 150T, 250' Boom	Crane	40	225	0.2	Diesel	760	0.29
SF - Eastern - 9	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	40	225	0.2	Diesel	75	0.31
SF - Eastern - 9	Portable, 90 Kw, Diesel, 158HP	Welders	300	225	1.3	Diesel Tier 4	158	0.45
SF - Eastern - 10	400A Diesel Welder, Trailer Mounted	Welders	81.3	85	1.0	Diesel	22	0.45
SF - Eastern - 10	CAT 14 M	Grader	74.2	85	0.9	Diesel	274	0.41
SF - Eastern - 10	CAT 988 H Wheel Loader	Rubber Tired Loader	74.2	85	0.9	Diesel	400	0.36
SF - Eastern - 10	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	74.2	85	0.9	Diesel	158	0.38
SF - Eastern - 10	Grove RT Crane 55T, 247 hp	Crane	162.5	85	1.9	Diesel	247	0.29
SF - Eastern - 10	Portable, 90 Kw, Diesel, 158HP	Welders	81.3	85	1.0	Diesel Tier 4	158	0.45
SF - Eastern - 10	Water Pump, 6" Diesel	Pumps	74.2	85	0.9	Diesel	13	0.74
SF - Eastern - 11	Air Compressor 185 cfm	Air Compressor	927.1	296	3.1	Diesel Tier 4	49	0.48
SF - Eastern - 11	Bentonite Mix Plant/Desander	Cement & Mortar Mix	8562.9	296	28.9	Diesel Tier 4	100	0.56
SF - Eastern - 11	Boom Truck, 12.5 Tn Boom	Crane	463.6	296	1.6	Diesel or Hybrid	100	0.29
SF - Eastern - 11	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	8562.9	296	28.9	Diesel	110	0.36
SF - Eastern - 11	CAT 14 M	Grader	417.6	296	1.4	Diesel	274	0.41
SF - Eastern - 11	CAT 962 H Wheel Loader	Rubber Tired Loader	8562.9	296	28.9	Diesel	230	0.36
SF - Eastern - 11	CAT 988 H Wheel Loader	Rubber Tired Loader	208.8	296	0.7	Diesel	400	0.36
SF - Eastern - 11	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	208.8	296	0.7	Diesel	158	0.38
SF - Eastern - 11	CAT D6LGPDozer w winch	Crawler Tractor	8562.9	296	28.9	Diesel or Hybrid	179	0.43
SF - Eastern - 11	Grove RT Crane 55T, 247 hp	Crane	8564	296	28.9	Diesel	247	0.29
SF - Eastern - 11	Grove RT Crane 80T, 275hp	Crane	8562.9	296	28.9	Diesel	275	0.29
SF - Eastern - 11	Manitowoc 555 150T, 250' Boom	Crane	15891.7	296	53.7	Diesel	760	0.29
SF - Eastern - 11	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	463.6	296	1.6	Diesel	75	0.31
SF - Eastern - 11	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	8562.9	296	29	Diesel	8	0.56
SF - Eastern - 11	Slurry Wall Techniwell	Pumps	8562.9	296	29	Diesel	500	0.74
SF - Eastern - 11	Well Drill	Bore/Drill Rigs	200	296	0.7	Diesel	136	0.5
SF - Eastern - 12	400A Diesel Welder, Trailer Mounted	Welders	3387.2	731	4.6	Diesel	22	0.45
SF - Eastern - 12	Air Compressor 375 cfm	Air Compressor	60.9	731	0.1	Diesel Tier 4	122	0.48
SF - Eastern - 12	Air Compressor 900 cfm	Air Compressor	2708.8	731	3.7	Diesel Tier 4	300	0.48
SF - Eastern - 12	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Construction E	215.1	731	0.3	Diesel	50	0.42
SF - Eastern - 12	Bobcat 5630 Skid Steer Loader	Skid Loader	277.8	731	0.4	Diesel	74	0.37
SF - Eastern - 12	CAT 14 M	Grader	135.8	731	0.2	Diesel	274	0.41
SF - Eastern - 12	CAT 390 MASS EXC	Excavator	1828	731	2.5	Diesel	534	0.38
SF - Eastern - 12	CAT 815, Roller	Roller	271.6	731	0.4	Diesel	170	0.38
SF - Eastern - 12	CAT D6LGPDozer w winch	Crawler Tractor	271.6	731	0.4	Diesel or Hybrid	179	0.43
SF - Eastern - 12	CAT D8Ril, Dozer w winch	Crawler Tractor	1443	731	2.0	Diesel	310	0.43
SF - Eastern - 12	Concrete Vibrator, 2"	Other Construction Eq	9979	731	13.7	Gasoline	3	0.42
SF - Eastern - 12	Grove RT Crane 15T, 100hp	Crane	376.9	731	0.5	Diesel	100	0.29
SF - Eastern - 12	Grove RT Crane 55T, 247 hp	Crane	7537.4	731	10.3	Diesel	247	0.29
SF - Eastern - 12	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	1556.4	731	2.1	Diesel	345	0.38
SF - Eastern - 12	Light Plant, 4 lite, 1000w, Tower/Mast	Generator	160.1	731	0.2	Diesel	12	0.74
SF - Eastern - 12	Manitowoc 555 150T, 250' Boom	Crane	16929.6	731	23.2	Diesel	760	0.29
SF - Eastern - 12	Portable, 20 Kw, Diesel, 36HP	Welders	60.9	731	0.1	Diesel Tier 4	36	0.45
SF - Eastern - 12	Portable, 90 Kw, Diesel, 158HP	Welders	3326.3	731	4.6	Diesel Tier 4	158	0.45
SF - Eastern - 12	Water Pump, 10" Diesel	Pumps	2146	731	2.9	Diesel	200	0.74
SF - Eastern - 13	400A Diesel Welder, Trailer Mounted	Welders	1635.3	876	1.9	Diesel	22	0.45
SF - Eastern - 13	Air Compressor 185 cfm	Air Compressor	127.3	876	0.1	Diesel Tier 4	49	0.48
SF - Eastern - 13	Air Compressor 375 cfm	Air Compressor	5	876	0.0	Diesel Tier 4	122	0.48
SF - Eastern - 13	Air Compressor 900 cfm	Air Compressor	1630.3	876	1.9	Diesel Tier 4	300	0.48
SF - Eastern - 13	Bentonite Mix Plant/Desander	Cement & Mortar Mix	1948.9	876	2.2	Diesel Tier 4	100	0.56
SF - Eastern - 13	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Construction E	171.6	876	0.2	Diesel	50	0.42
SF - Eastern - 13	Bobcat 5630 Skid Steer Loader	Skid Loader	90.7	876	0.1	Diesel	74	0.37
SF - Eastern - 13	Boom Truck, 12.5 Tn Boom	Crane	108.5	876	0.1	Diesel or Hybrid	100	0.29
SF - Eastern - 13	CAT 12 M	Grader	59.9	876	0.1	Diesel	173	0.41
SF - Eastern - 13	CAT 14 M	Grader	99.2	876	0.1	Diesel	274	0.41
SF - Eastern - 13	CAT 390 MASS EXC	Excavator	61.3	876	0.1	Diesel	534	0.38
SF - Eastern - 13	CAT 815, Roller	Roller	61.3	876	0.1	Diesel	170	0.38
SF - Eastern - 13	CAT 962 H Wheel Loader	Rubber Tired Loader	1948.9	876	2.2	Diesel	230	0.36
SF - Eastern - 13	CAT 988 H Wheel Loader	Rubber Tired Loader	34.2	876	0.0	Diesel	400	0.36
SF - Eastern - 13	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	34.2	876	0.0	Diesel	158	0.38
SF - Eastern - 13	CAT D3 LGR, Dozer	Crawler Tractor	239.7	876	0.3	Diesel or Hybrid	76	0.43
SF - Eastern - 13	CAT D6LGPDozer w winch	Crawler Tractor	2010.2	876	2.3	Diesel or Hybrid	179	0.43
SF - Eastern - 13	CAT D8Ril, Dozer w winch	Crawler Tractor	325.8	876	0.4	Diesel	310	0.43
SF - Eastern - 13	Compactor, Plate, 22"x w x 35"	Plate Compactors	90.7	876	0.1	Diesel	8.5	0.43
SF - Eastern - 13	Compactor, Trench Roller, Vib 32"x w	Rollers	90.7	876	0.1	Diesel	20	0.38
SF - Eastern - 13	Concrete Vibrator, 2"	Other Construction Eq	4890.8	876	5.6	Gasoline	3	0.42
SF - Eastern - 13	Grove RT Crane 55T, 247 hp	Crane	440.5	876	0.5	Diesel	247	0.29
SF - Eastern - 13	Grove RT Crane 80T, 275hp	Crane	3898.2	876	4.5	Diesel	275	0.29
SF - Eastern - 13	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	239.7	876	0.3	Diesel	384	0.38
SF - Eastern - 13	Manitowoc 555 150T, 250' Boom	Crane	10333.5	876	11.8	Diesel	760	0.29
SF - Eastern - 13	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	108.5	876	0.1	Diesel	75	0.31
SF - Eastern - 13	Portable, 90 Kw, Diesel, 158HP	Welders	1630.3	876	1.9	Diesel Tier 4	158	0.45
SF - Eastern - 13	Water Pump, 10" Diesel	Pumps	1600	876	1.8	Diesel	200	0.74
SF - Eastern - 13	Water Pump, 6" Diesel	Pumps	1983.1	876	2.3	Diesel	13	0.74
SF - Eastern - 14	400A Diesel Welder, Trailer Mounted	Welders	3338.6	671	5.0	Diesel	22	0.45
SF - Eastern - 14	Air Compressor 375 cfm	Air Compressor	183	671	0.3	Diesel Tier 4	122	0.48
SF - Eastern - 14	Air Compressor 900 cfm	Air Compressor	2155.6	671	3.2	Diesel Tier 4	300	0.48
SF - Eastern - 14	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Construction E	346.1	671	0.5	Diesel	50	0.42
SF - Eastern - 14	Bobcat 5630 Skid Steer Loader	Skid Loader	1435.5	671	2.1	Diesel	74	0.37
SF - Eastern - 14	CAT 14 M	Grader	254.4	671	0.4	Diesel	274	0.41
SF - Eastern - 14	CAT 390 MASS EXC	Excavator	959.8	671	1.4	Diesel	534	0.38
SF - Eastern - 14	CAT 815, Roller	Roller	508.8	671	0.8	Diesel	170	0.38
SF - Eastern - 14	CAT D6LGPDozer w winch	Crawler Tractor	508.8	671	0.8	Diesel or Hybrid	179	0.43
SF - Eastern - 14	CAT D8Ril, Dozer w winch	Crawler Tractor	508.8	671	0.8	Diesel	310	0.43
SF - Eastern - 14	Compactor, Plate, 22"x w x 35"	Plate Compactors	1435.5	671	2.1	Diesel	8.5	0.43
SF - Eastern - 14	Compactor, Trench Roller, Vib 32"x w	Roller	1435.5	671	2.1	Diesel	20	0.38
SF - Eastern - 14	Concrete Vibrator, 2"	Other Construction Eq	9466.8	671	14.1	Gasoline	3	0.42
SF - Eastern - 14	Grove RT Crane 55T, 247 hp	Crane	3318.6	671	4.9	Diesel	247	0.29
SF - Eastern - 14	Grove RT Crane 80T, 275hp	Crane	399.3	671	0.6	Diesel	275	0.29
SF - Eastern - 14	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	451	671	0.7	Diesel	345	0.38
SF - Eastern - 14	Light Plant, 4 lite, 1000w, Tower/Mast	Generator	360	671	0.5	Diesel	12	0.74
SF - Eastern - 14	Manitowoc 555 150T, 250' Boom	Crane	7689.1	671	11.5	Diesel	760	0.29
SF - Eastern - 14	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	163	671	0.2	Diesel	75	0.31
SF - Eastern - 14	Portable, 20 Kw, Diesel, 36HP	Welders	163	671	0.2	Diesel Tier 4	36	0.45
SF - Eastern - 14	Portable, 90 Kw, Diesel, 158HP	Welders	3155.6	671	4.7	Diesel Tier 4	158	0.45
SF - Eastern - 14	Vibro Driver/Extractor V208	Other Construction Eq	163	671	0.2	Diesel	325	0.42

SF - Eastern - 15A	400A Diesel Welder, Trailer Mounted	Welders	3120	241	12.9	Diesel	22	0.45
SF - Eastern - 15A	CAT IT28H, 10640 LB Tool Carrier	Rubber Tired Loaders	3120	241	12.9	Diesel	145	0.36
SF - Eastern - 15A	Manitowoc 555 150T, 250' Boom	Crane	3120	241	12.9	Diesel	760	0.29
SF - Eastern - 15B	400A Diesel Welder, Trailer Mounted	Welders	897.3	366	2.5	Diesel	22	0.45
SF - Eastern - 15B	Air Compressor 185 cfm	Air Compressor	80	366	0.2	Diesel Tier 4	49	0.48
SF - Eastern - 15B	Air Compressor 375 cfm	Air Compressor	616.4	366	1.7	Diesel Tier 4	122	0.48
SF - Eastern - 15B	Air Compressor 900 cfm	Air Compressor	897.3	366	2.5	Diesel Tier 4	300	0.48
SF - Eastern - 15B	Bentonite Mix Plant/Desander	Cement & Mortar Mix	6164	366	16.8	Diesel Tier 4	100	0.56
SF - Eastern - 15B	Bidwell Bridge Deck Screed-Finish, 50 HP	Other Construction E	84.2	366	0.2	Diesel	50	0.42
SF - Eastern - 15B	Bobcat S630 Skid Steer Loader	Skid Loader	260.9	366	0.7	Diesel	74	0.37
SF - Eastern - 15B	Boom Truck, 12.5 Tn Boom	Crane	40	366	0.1	Diesel or Hybrid	100	0.29
SF - Eastern - 15B	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	616.4	366	1.7	Diesel	110	0.36
SF - Eastern - 15B	CAT 12 M	Grader	311.1	366	0.9	Diesel	173	0.41
SF - Eastern - 15B	CAT 14 M	Grader	792.8	366	2.2	Diesel	274	0.41
SF - Eastern - 15B	CAT 953 Track Loader, 2.25cy, 148hp	Skid Loader	616.4	366	1.7	Diesel	148	0.37
SF - Eastern - 15B	CAT 988 H Wheel Loader	Rubber Tired Loader	396.4	366	1.1	Diesel	400	0.36
SF - Eastern - 15B	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	396.4	366	1.1	Diesel	158	0.38
SF - Eastern - 15B	CAT D6LGPDozer w winch	Crawler Tractor	3105.1	366	8.5	Diesel or Hybrid	179	0.43
SF - Eastern - 15B	Compactor, Plate, 22" w x 35"	Plate Compactors	260.9	366	0.7	Diesel	8.5	0.43
SF - Eastern - 15B	Compactor, Trench Roller, Vib 32" w	Roller	260.9	366	0.7	Diesel	20	0.38
SF - Eastern - 15B	Concrete Vibrator, 2"	Other Construction Eq	2692	366	7.4	Gasoline	3	0.42
SF - Eastern - 15B	Grove RT Crane 15T, 100hp	Crane	616.4	366	1.7	Diesel	100	0.29
SF - Eastern - 15B	Grove RT Crane 55T, 247 hp	Crane	1077.3	366	2.9	Diesel	247	0.29
SF - Eastern - 15B	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	1244.4	366	3.4	Diesel	384	0.38
SF - Eastern - 15B	Manitowoc 555 150T, 250' Boom	Crane	3034.3	366	8.3	Diesel	760	0.29
SF - Eastern - 15B	Portable, 90 Kw, Diesel, 158HP	Welders	897.3	366	2.5	Diesel Tier 4	158	0.45
SF - Eastern - 15B	Water Pump, 6" Diesel	Pumps	1012.8	366	2.8	Diesel	13	0.74
SF - Eastern - 16	400A Diesel Welder, Trailer Mounted	Welders	301.1	163	1.8	Diesel	22	0.45
SF - Eastern - 16	Air Compressor 185 cfm	Air Compressor	1146.7	163	7.0	Diesel Tier 4	49	0.48
SF - Eastern - 16	Air Compressor 900 cfm	Air Compressor	301.1	163	1.8	Diesel Tier 4	300	0.48
SF - Eastern - 16	Bidwell Bridge Deck Screed-Finish, 50 HP	Other Construction E	94.9	163	0.6	Diesel	50	0.42
SF - Eastern - 16	Boom Truck, 12.5 Tn Boom	Crane	1146.7	163	7.0	Diesel or Hybrid	100	0.29
SF - Eastern - 16	CAT 950 H Wheel Loader	Rubber Tired Loaders	75.3	163	0.5	Diesel or Hybrid	130	0.36
SF - Eastern - 16	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	75.3	163	0.5	Diesel	158	0.38
SF - Eastern - 16	CAT D3 LGP, Dozer	Crawler Tractor	75.3	163	0.5	Diesel or Hybrid	76	0.43
SF - Eastern - 16	Concrete Vibrator, 2"	Other Construction Eq	602.2	163	3.7	Gasoline	3	0.42
SF - Eastern - 16	Grove RT Crane 30T	Crane	1146.7	163	7.0	Diesel	160	0.29
SF - Eastern - 16	Grove RT Crane 55T, 247 hp	Crane	301.1	163	1.8	Diesel	247	0.29
SF - Eastern - 16	Manitowoc 555 150T, 250' Boom	Crane	301.1	163	1.8	Diesel	760	0.29
SF - Eastern - 16	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	1146.7	163	7.0	Diesel	75	0.31
SF - Eastern - 17	400A Diesel Welder, Trailer Mounted	Welders	81	34	2.4	Diesel	22	0.45
SF - Eastern - 17	Air Compressor 185 cfm	Air Compressor	1283.33	34	37.7	Diesel Tier 4	49	0.48
SF - Eastern - 17	Air Compressor 900 cfm	Air Compressor	80.95	34	2.4	Diesel Tier 4	300	0.48
SF - Eastern - 17	Bidwell Bridge Deck Screed-Finish, 50 HP	Other Construction E	25.5	34	0.8	Diesel	50	0.42
SF - Eastern - 17	Boom Truck, 12.5 Tn Boom	Crane	1283.33	34	37.7	Diesel or Hybrid	100	0.29
SF - Eastern - 17	CAT 950 H Wheel Loader	Rubber Tired Loaders	11.3	34	0.3	Diesel or Hybrid	130	0.36
SF - Eastern - 17	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	11.3	34	0.3	Diesel	158	0.38
SF - Eastern - 17	CAT D3 LGP, Dozer	Crawler Tractor	11.3	34	0.3	Diesel or Hybrid	76	0.43
SF - Eastern - 17	Concrete Vibrator, 2"	Other Construction Eq	161.9	34	4.8	Gasoline	3	0.42
SF - Eastern - 17	Grove RT Crane 30T	Crane	1283.33	34	37.7	Diesel	160	0.29
SF - Eastern - 17	Grove RT Crane 55T, 247 hp	Crane	80.95	34	2.4	Diesel	247	0.29
SF - Eastern - 17	Manitowoc 555 150T, 250' Boom	Crane	80.95	34	2.4	Diesel	760	0.29
SF - Eastern - 17	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	1283.33	34	37.7	Diesel	75	0.31
SF - Eastern - 17	Portable, 90 Kw, Diesel, 158HP	Welders	81	34	2.4	Diesel Tier 4	158	0.74
SF - Eastern - 18	400A Diesel Welder, Trailer Mounted	Welders	44.1	31	1.4	Diesel	22	0.45
SF - Eastern - 18	Air Compressor 185 cfm	Air Compressor	0.2	31	0.0	Diesel Tier 4	49	0.48
SF - Eastern - 18	Air Compressor 900 cfm	Air Compressor	44.1	31	1.4	Diesel Tier 4	300	0.48
SF - Eastern - 18	Boom Truck, 12.5 Tn Boom	Crane	0.1	31	0.0	Diesel or Hybrid	100	0.29
SF - Eastern - 18	CAT 950 H Wheel Loader	Rubber Tired Loaders	25.2	31	0.8	Diesel or Hybrid	130	0.36
SF - Eastern - 18	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	25.2	31	0.8	Diesel	158	0.38
SF - Eastern - 18	CAT D3 LGP, Dozer	Crawler Tractor	25.2	31	0.8	Diesel or Hybrid	76	0.43
SF - Eastern - 18	Concrete Vibrator, 2"	Other Construction Eq	88.3	31	2.8	Gasoline	3	0.42
SF - Eastern - 18	Grove RT Crane 30T	Crane	0.1	31	0.0	Diesel	160	0.29
SF - Eastern - 18	Grove RT Crane 55T, 247 hp	Crane	44.1	31	1.4	Diesel	247	0.29
SF - Eastern - 18	Manitowoc 555 150T, 250' Boom	Crane	44.1	31	1.4	Diesel	760	0.29
SF - Eastern - 18	Portable, 90 Kw, Diesel, 158HP	Welders	44.1	31	1.4	Diesel Tier 4	158	0.45
SF - Eastern - 19	400A Diesel Welder, Trailer Mounted	Welders	807.9	354	2.3	Diesel	22	0.45
SF - Eastern - 19	Air Compressor 185 cfm	Air Compressor	2290	354	6.5	Diesel Tier 4	49	0.48
SF - Eastern - 19	Air Compressor 900 cfm	Air Compressor	807.9	354	2.3	Diesel Tier 4	300	0.48
SF - Eastern - 19	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	37.4	354	0	Diesel or Hybrid	224	0.42
SF - Eastern - 19	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	37.4	354	0	Diesel or Hybrid	137	0.38
SF - Eastern - 19	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	37.4	354	0	Diesel or Hybrid	133	0.38
SF - Eastern - 19	Bidwell Bridge Deck Screed-Finish, 50 HP	Other Construction E	254.5	354	0.7	Diesel	50	0.42
SF - Eastern - 19	Bobcat S630 Skid Steer Loader	Skid Loader	1162	354	3.3	Diesel	74	0.37
SF - Eastern - 19	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	781.1	354	2.2	Diesel	110	0.36
SF - Eastern - 19	CAT 14 M	Grader	62.8	354	0.2	Diesel	274	0.41
SF - Eastern - 19	Boom Truck, 12.5 Tn Boom	Crane	2290	354	6.5	Diesel or Hybrid	100	0.29
SF - Eastern - 19	CAT 390 MASS EXC	Excavator	2.6	354	0.0	Diesel	534	0.38
SF - Eastern - 19	CAT 825, Roller	Roller	2.6	354	0.0	Diesel	315	0.38
SF - Eastern - 19	CAT 950 H Wheel Loader	Rubber Tired Loaders	921.3	354	2.6	Diesel or Hybrid	130	0.36
SF - Eastern - 19	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	200.4	354	0.6	Diesel	158	0.38
SF - Eastern - 19	CAT D3 LGP, Dozer	Crawler Tractor	140.3	354	0.4	Diesel or Hybrid	76	0.43
SF - Eastern - 19	CAT D6LGPDozer w winch	Crawler Tractor	5.3	354	0.0	Diesel or Hybrid	179	0.43
SF - Eastern - 19	CAT LOADER/HOE 416 E	Rubber Tired Loaders	604.9	354	1.7	Diesel	78	0.36
SF - Eastern - 19	Compactor, Plate, 22" w x 35"	Plate Compactors	390.5	354	1.1	Diesel	8.5	0.43
SF - Eastern - 19	Concrete Vibrator, 2"	Other Construction Eq	1615.9	354	4.6	Gasoline	3	0.42
SF - Eastern - 19	Disk, Towed	Off Highway Tractor	2.6	354	0.0	Diesel	140	0.44
SF - Eastern - 19	Grove RT Crane 30T	Crane	2290	354	6.5	Diesel	160	0.29
SF - Eastern - 19	Grove RT Crane 55T, 247 hp	Crane	807.9	354	2.3	Diesel	247	0.29
SF - Eastern - 19	Manitowoc 555 150T, 250' Boom	Crane	404	354	1.1	Diesel	760	0.29
SF - Eastern - 19	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	2290	354	6.5	Diesel	75	0.31
SF - Eastern - 19	Portable, 90 Kw, Diesel, 158HP	Welders	807.9	354	2.3	Diesel Tier 4	158	0.45
SF - Eastern - 19	Water Pump, 4" Diesel	Pumps	12.6	354	0.0	Diesel	10	0.74
SF - Eastern - 20	400A Diesel Welder, Trailer Mounted	Welders	2209.8	754	2.9	Diesel	22	0.45
SF - Eastern - 20	Air Compressor 185 cfm	Air Compressor	5333.3	754	7.1	Diesel Tier 4	49	0.48
SF - Eastern - 20	Air Compressor 900 cfm	Air Compressor	2209.8	754	2.9	Diesel Tier 4	300	0.48
SF - Eastern - 20	Bidwell Bridge Deck Screed-Finish, 50 HP	Other Construction E	306.3	754	0.4	Diesel	50	0.42
SF - Eastern - 20	Bobcat S630 Skid Steer Loader	Skid Loader	89.3	754	0.1	Diesel	74	0.37
SF - Eastern - 20	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	4333.3	754	5.7	Diesel	110	0.36

SF - Eastern - 20	Boom Truck, 12.5 Tn Boom	Crane	4333.3	754	5.7	Diesel or Hybrid	100	0.29
SF - Eastern - 20	Compactor, Plate, 22" w x 35"	Plate Compactors	89.3	754	0.1	Diesel	8.5	0.43
SF - Eastern - 20	Concrete Vibrator, 2"	Other Construction Eq	6629.3	754	8.8	Gasoline	3	0.42
SF - Eastern - 20	Grove RT Crane 80T, 275hp	Crane	5073.3	754	6.7	Diesel	275	0.29
SF - Eastern - 20	Grove RT Crane 55T, 247 hp	Crane	2209.8	754	2.9	Diesel	247	0.29
SF - Eastern - 20	Manitowoc 555 150T, 250' Boom	Crane	6696.9	754	8.9	Diesel	760	0.29
SF - Eastern - 20	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	7719.3	754	10.2	Diesel	75	0.31
SF - Eastern - 20	Portable, 90 Kw, Diesel, 158HP	Welders	2209.8	754	2.9	Diesel Tier 4	158	0.45
SF - Eastern - 21	Air Compressor 185 cfm	Air Compressor	3333.3	984	3.4	Diesel Tier 4	49	0.48
SF - Eastern - 22	400A Diesel Welder, Trailer Mounted	Welders	400	246	1.6	Diesel	22	0.45
SF - Eastern - 22	Manitowoc 555 150T, 250' Boom	Crane	400	246	1.6	Diesel	760	0.29
SF - Eastern - 22	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	100	246	0.4	Diesel	75	0.31
SF - Eastern - 23	Air Compressor 185 cfm	Air Compressor	120.5	185	0.7	Diesel Tier 4	49	0.48
SF - Eastern - 23	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	1209.4	185	6.5	Diesel	110	0.36
SF - Eastern - 23	CAT 14 M	Grader	25208.8	185	136.3	Diesel	274	0.41
SF - Eastern - 23	Boom Truck, 12.5 Tn Boom	Crane	110.2	185	0.6	Diesel or Hybrid	100	0.29
SF - Eastern - 23	Cat 613 C Self Loading Scraper	Scraper	80	185	0.4	Diesel	187	0.48
SF - Eastern - 23	CAT 815, Roller	Roller	711.9	185	3.8	Diesel	170	0.38
SF - Eastern - 23	CAT 950 H Wheel Loader	Rubber Tired Loaders	1209.4	185	6.5	Diesel or Hybrid	130	0.36
SF - Eastern - 23	CAT 962 H Wheel Loader	Rubber Tired Loader	168.8	185	0.9	Diesel	230	0.36
SF - Eastern - 23	CAT 988 H Wheel Loader	Rubber Tired Loader	121.1	185	0.7	Diesel	400	0.36
SF - Eastern - 23	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	208.8	185	1.1	Diesel	158	0.38
SF - Eastern - 23	CAT D6LGPDozer w winch	Crawler Tractor	1931	185	10.4	Diesel or Hybrid	179	0.43
SF - Eastern - 23	CAT D8Ril, Dozer w winch	Crawler Tractor	121.1	185	0.7	Diesel	310	0.43
SF - Eastern - 23	CAT LOADER/HOE 416 E	Rubber Tired Loaders	6329.1	185	34.2	Diesel	78	0.36
SF - Eastern - 23	Compactor, Plate, 22" w x 35"	Plate Compactors	644.3	185	3.5	Diesel	8.5	0.43
SF - Eastern - 23	Grove RT Crane 30T	Crane	120.5	185	0.7	Diesel	160	0.29
SF - Eastern - 23	Grove RT Crane 80T, 275hp	Crane	120.5	185	0.7	Diesel	275	0.29
SF - Eastern - 23	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	1220.9	185	6.6	Diesel	384	0.38
SF - Eastern - 23	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	120.5	185	0.7	Diesel	75	0.31
SF - Eastern - 23	Water Pump, 4" Diesel	Pumps	73.8	185	0.4	Diesel	10	0.74
SF - Eastern - 24	CAT 14 M	Grader	100	181	0.6	Diesel	274	0.41
SF - Eastern - 24	CAT 950 H Wheel Loader	Rubber Tired Loaders	200	181	1.1	Diesel or Hybrid	130	0.36
SF - Eastern - 24	CAT D3 LGP, Dozer	Crawler Tractor	200	181	1.1	Diesel or Hybrid	76	0.43
SF - Eastern - 24	CAT D6LGPDozer w winch	Crawler Tractor	200	181	1.1	Diesel or Hybrid	179	0.43
SF - Eastern - 24	Water Pump, 3" Gas, Diaphragm	Pumps	1600	181	8.8	Gasoline	10	0.74
SF - Eastern - 25	Boom Truck, 12.5 Tn Boom	Crane	3900	445	8.8	Diesel or Hybrid	100	0.29
SF - Eastern - 25	CAT 12 M	Grader	5190.3	445	11.7	Diesel	173	0.41
SF - Eastern - 25	CAT D3 LGP, Dozer	Crawler Tractor	20761.4	445	46.7	Diesel or Hybrid	76	0.43
SF - Eastern - 25	CAT D6LGPDozer w winch	Crawler Tractor	1642.8	445	3.7	Diesel or Hybrid	179	0.43
SF - Eastern - 25	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	279.7	445	0.6	Diesel	345	0.38
SF - Eastern - 25	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	21844.8	445	49.1	Diesel	384	0.38
SF - Eastern - 25	Water Pump, 4" Diesel	Pumps	21900	445	49.2	Diesel	10	0.74
SF - Eastern - 26	Air Compressor 375 cfm	Air Compressor	13350	1355	10	Diesel Tier 4	122	0.48
SF - Eastern - 26	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	20738.5	1355	15.3	Diesel	110	0.36
SF - Eastern - 26	CAT 14 M	Grader	14302.4	1355	10.6	Diesel	274	0.41
SF - Eastern - 26	CAT 390 MASS EXC	Excavator	10332	1355	7.6	Diesel	534	0.38
SF - Eastern - 26	CAT 631G Scraper, Conventional	Scraper	73091.1	1355	53.9	Diesel	515	0.48
SF - Eastern - 26	CAT 825, Roller	Roller	28604.8	1355	21.1	Diesel	315	0.38
SF - Eastern - 26	CAT D6LGPDozer w winch	Crawler Tractor	29800.4	1355	22.0	Diesel or Hybrid	179	0.43
SF - Eastern - 26	CAT D9R, Dozer w ripper	Crawler Tractor	18272.8	1355	13.5	Diesel	410	0.43
SF - Eastern - 26	Disk, Towed	Off Highway Tractor	19468.4	1355	14.4	Diesel	140	0.44
SF - Eastern - 26	DMM Deep Soil Mixer, 3 Shaft, 808 HP	Bore Drill Rig	13350	1355	10	Diesel	808	0.5
SF - Eastern - 26	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	13350	1355	10	Diesel	500	0.34
SF - Eastern - 26	Grove RT Crane 30T	Crane	13350	1355	10	Diesel	160	0.29
SF - Eastern - 26	Portable, 90 Kw, Diesel, 158HP Water Pump, 4" Diesel	Welders	20738.5	1355	15.3	Diesel Tier 4	158	0.45
SF - Eastern - 26		Pumps	4259.1	1355	3.1	Diesel	10	0.74
SF - Eastern - 27	CAT 14 M	Grader	119.4	1748	0.1	Diesel	274	0.41
SF - Eastern - 27	Cat 613 C Self Loading Scraper	Scraper	19915.5	1748	11.4	Diesel	187	0.48
SF - Eastern - 27	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	119.4	1748	0.1	Diesel	158	0.38
SF - Eastern - 27	CAT D6LGPDozer w winch	Crawler Tractor	32095.7	1748	18.4	Diesel or Hybrid	179	0.43
SF - Eastern - 27	Disk, Towed	Off Highway Tractor	23282.5	1748	13.3	Diesel	140	0.44
SF - Eastern - 27	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	17148.8	1748	9.8	Diesel	345	0.38
SF - Eastern - 28	CAT 12 M	Grader	996.2	2176	0.5	Diesel	173	0.41
SF - Eastern - 28	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	996.2	2176	0.5	Diesel	158	0.38
SF - Eastern - 28	CAT LOADER/HOE 416 E	Rubber Tired Loaders	14836.9	2176	6.8	Diesel	78	0.36
SF - Eastern - 28	Disk, Towed	Off Highway Tractor	6535	2176	3.0	Diesel	140	0.44
SF - Eastern - 28	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	6535	2176	3.0	Diesel	80	0.44
SF - Eastern - 29	Bobcat S630 Skid Steer Loader	Skid Loader	107.1	275	0.4	Diesel	74	0.37
SF - Eastern - 29	Brush Chipper, 18" Cap., Trailer Mtd. 173hp	Other Construction	67	275	0.2	Diesel	173	0.42
SF - Eastern - 29	CAT 14 M	Grader	3150.1	275	11.5	Diesel	274	0.41
SF - Eastern - 29	CAT 320D, 1.56 cy, 153 hp	Excavator	67	275	0.2	Diesel	138	0.38
SF - Eastern - 29	Cat 613 C Self Loading Scraper	Scraper	555.3	275	2.0	Diesel	187	0.48
SF - Eastern - 29	CAT 825, Roller	Roller	340.7	275	1.2	Diesel	315	0.38
SF - Eastern - 29	CAT 950 H Wheel Loader	Rubber Tired Loaders	53.6	275	0.2	Diesel or Hybrid	130	0.36
SF - Eastern - 29	CAT 962 H Wheel Loader	Rubber Tired Loader	2093.1	275	7.6	Diesel	230	0.36
SF - Eastern - 29	CAT 966 Gll Wheel Loader	Rubber Tired Loaders	2867.8	275	10.4	Diesel	286	0.36
SF - Eastern - 29	CAT 980 H Wheel Loader	Rubber Tired Loader	340.7	275	1.2	Diesel	393	0.36
SF - Eastern - 29	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	2093.1	275	7.6	Diesel	158	0.38
SF - Eastern - 29	CAT D3 LGP, Dozer	Crawler Tractor	26.8	275	0.1	Diesel or Hybrid	76	0.43
SF - Eastern - 29	CAT D6LGPDozer w winch	Crawler Tractor	869	275	3.2	Diesel or Hybrid	179	0.43
SF - Eastern - 29	CAT LOADER/HOE 416 E	Rubber Tired Loaders	1868.4	275	6.8	Diesel	78	0.36
SF - Eastern - 29	Disk, Towed	Off Highway Tractor	507.7	275	1.8	Diesel	140	0.44
SF - Eastern - 29	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	334	275	1.2	Diesel	80	0.44
SF - Eastern - 29	Gradall, 1.50 Cy, 282 Hp	Excavator	2867.8	275	10.4	Diesel	282	0.38
SF - Eastern - 29	Hydro Mulcher, 18 HP	Pumps	167	275	0.6	Diesel	25	0.74
SF - Eastern - 29	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	819.6	275	3.0	Diesel	345	0.38
SF - Eastern - 29	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	2921.3	275	10.6	Diesel	384	0.38
SF - Eastern - 29	Portable, 20 Kw, Diesel, 36HP	Welders	535.4	275	1.9	Diesel Tier 4	36	0.45
SF - Eastern - 29	Water Pump, 4" Diesel	Pumps	4488.3	275	16.3	Diesel	10	0.74
SF - Eastern - 29	Disk, Towed	Off Highway Tractor	507.7	275	1.8	Diesel	140	0.44
SF - Eastern - 30	400A Diesel Welder, Trailer Mounted	Welders	632.2	185	3.4	Diesel	22	0.45
SF - Eastern - 30	Air Compressor 1600 cfm	Air Compressor	38	185	0.2	Diesel Tier 4	540	0.48

SF - Eastern - 30	Air Compressor 375 cfm	Air Compressor	1719.2	185	9.3	Diesel Tier 4	122	0.48
SF - Eastern - 30	Bentonite Mix Plant/Desander	Cement & Mortar Mix	137.5	185	0.7	Diesel Tier 4	100	0.56
SF - Eastern - 30	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	1306.7	185	7.1	Diesel	110	0.36
SF - Eastern - 30	CAT 14 M	Grader	138.6	185	0.7	Diesel	274	0.41
SF - Eastern - 30	CAT 390 MASS EXC	Excavator	137.5	185	0.7	Diesel	534	0.38
SF - Eastern - 30	CAT 631G Scraper, Conventional	Scraper	808.3	185	4.4	Diesel	515	0.48
SF - Eastern - 30	CAT 815, Roller	Roller	618	185	3.3	Diesel	170	0.38
SF - Eastern - 30	CAT 950 H Wheel Loader	Rubber Tired Loaders	171.9	185	0.9	Diesel or Hybrid	130	0.36
SF - Eastern - 30	CAT 962 H Wheel Loader	Rubber Tired Loader	137.5	185	0.7	Diesel	230	0.36
SF - Eastern - 30	CAT 966 Gil Wheel Loader	Rubber Tired Loaders	137.6	185	0.7	Diesel	286	0.36
SF - Eastern - 30	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	171.9	185	0.9	Diesel	158	0.38
SF - Eastern - 30	CAT D3 LGP, Dozer	Crawler Tractor	171.9	185	0.9	Diesel or Hybrid	76	0.43
SF - Eastern - 30	CAT D6LGPDozer w winch	Crawler Tractor	977.7	185	5.3	Diesel or Hybrid	179	0.43
SF - Eastern - 30	CAT D9R, Dozer w ripper	Crawler Tractor	269.4	185	1.5	Diesel	410	0.43
SF - Eastern - 30	Concrete Vibrator, 2"	Other Construction Eq	290.3	185	1.6	Gasoline	3	0.42
SF - Eastern - 30	DMM Deep Soil Mixer, 3 Shaft, 808 HP	Bore Drill Rig	185	185	1	Diesel	808	0.5
SF - Eastern - 30	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	185	185	1	Diesel	500	0.34
SF - Eastern - 30	Gradall, 1.50 Cy, 282 Hp	Excavator	137.6	185	0.7	Diesel	282	0.38
SF - Eastern - 30	Grove RT Crane 30T	Crane	1169.2	185	6.3	Diesel	160	0.29
SF - Eastern - 30	Grove RT Crane 55T, 247 hp	Crane	642.5	185	3.5	Diesel	247	0.29
SF - Eastern - 30	Grove RT Crane 80T, 275hp	Crane	137.5	185	0.7	Diesel	275	0.29
SF - Eastern - 30	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	3.9	185	0.0	Diesel	345	0.38
SF - Eastern - 30	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	597.3	185	3.2	Diesel	384	0.38
SF - Eastern - 30	Manitowoc 555 150T, 250' Boom	Crane	550	185	3.0	Diesel	760	0.29
SF - Eastern - 30	Manitowoc 999-275 Ton Crane	Crane	38	185	0.2	Diesel	900	0.29
SF - Eastern - 30	Portable, 20 Kw, Diesel, 36HP	Welders	550	185	3.0	Diesel Tier 4	36	0.45
SF - Eastern - 30	Portable, 90 Kw, Diesel, 158HP Vibro	Welders	80	185	<1	Diesel Tier 4	158	0.45
SF - Eastern - 30	Driver/Extractor V20B	Other Construction Eq	390	185	2.1	Diesel	325	0.42
SF - Eastern - 30	Water Pump, 4" Diesel	Pumps	32.3	185	0.2	Diesel	10	0.74
SF - Eastern - 30	Water Pump, 6" Diesel	Pumps	137.5	185	0.7	Diesel	13	0.74
SF - Eastern - 31	400A Diesel Welder, Trailer Mounted	Welders	1402.1	522	2.7	Diesel	22	0.45
SF - Eastern - 31	Air Compressor 1600 cfm	Air Compressor	683.4	522	1.3	Diesel Tier 4	540	0.48
SF - Eastern - 31	Air Compressor 185 cfm	Air Compressor	350	522	0.7	Diesel Tier 4	49	0.48
SF - Eastern - 31	Air Compressor 375 cfm	Air Compressor	2610	522	5	Diesel Tier 4	122	0.48
SF - Eastern - 31	Bentonite Mix Plant/Desander	Cement & Mortar Mix	3481.1	522	6.7	Diesel Tier 4	100	0.56
SF - Eastern - 31	Boom Truck, 12.5 Tn Boom	Crane	175	522	0.3	Diesel or Hybrid	100	0.29
SF - Eastern - 31	Manitowoc 555 150T, 250' Boom	Crane	324	522	0.6	Diesel	760	0.29
SF - Eastern - 31	Manitowoc 999-275 Ton Crane	Crane	603.4	522	1.2	Diesel	900	0.29
SF - Eastern - 31	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	7727.3	522	14.8	Diesel	110	0.36
SF - Eastern - 31	CAT 14 M	Grader	215.4	522	0.4	Diesel	274	0.41
SF - Eastern - 31	CAT 390 MASS EXC	Excavator	4091.1	522	7.8	Diesel	534	0.38
SF - Eastern - 31	CAT 950 H Wheel Loader	Rubber Tired Loaders	33.3	522	0.1	Diesel or Hybrid	130	0.36
SF - Eastern - 31	CAT 962 H Wheel Loader	Rubber Tired Loader	3481.1	522	6.7	Diesel	230	0.36
SF - Eastern - 31	CAT 973 Track Loader, 4.2 cy, 263hp	Skid Loader	244	522	0.5	Diesel or Hybrid	210	0.37
SF - Eastern - 31	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	35.3	522	0.1	Diesel	158	0.38
SF - Eastern - 31	CAT D6LGPDozer w winch	Crawler Tractor	3481.1	522	6.7	Diesel or Hybrid	179	0.43
SF - Eastern - 31	CAT D3 LGP, Dozer	Crawler Tractor	33.3	522	0.1	Diesel or Hybrid	76	0.43
SF - Eastern - 31	CAT D8Ril, Dozer w winch	Crawler Tractor	410.8	522	0.8	Diesel	310	0.43
SF - Eastern - 31	Concrete Vibrator, 2"	Other Construction Eq	4622.9	522	8.9	Gasoline	3	0.42
SF - Eastern - 31	DMM Deep Soil Mixer, 3 Shaft, 808 HP	Bore Drill Rig	2610	522	5	Diesel	808	0.5
SF - Eastern - 31	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	2610	522	5	Diesel	500	0.34
SF - Eastern - 31	Grove RT Crane 30T	Crane	2610	522	5	Diesel	160	0.29
SF - Eastern - 31	Grove RT Crane 55T, 247 hp	Crane	472.5	522	0.9	Diesel	247	0.29
SF - Eastern - 31	Grove RT Crane 80T, 275hp	Crane	3811.3	522	7.3	Diesel	275	0.29
SF - Eastern - 31	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	175	522	0.3	Diesel	75	0.31
SF - Eastern - 31	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	815.4	522	1.6	Diesel	384	0.38
SF - Eastern - 31	Portable, 90 Kw, Diesel, 158HP	Welders	4921.9	522	9.4	Diesel Tier 4	158	0.45
SF - Eastern - 31	Water Pump, 6" Diesel	Pumps	3481.1	522	6.7	Diesel	13	0.74
SF - Eastern - 31	Water Pump, 4" Diesel	Pumps	62.3	522	0.1	Diesel	10	0.74
SF - Eastern - 31	Well Drill	Bore/Drill Rigs	200	522	0.4	Diesel	136	0.5
SF - Eastern - 32	400A Diesel Welder, Trailer Mounted	Welders	137	137	1	Diesel	22	0.45
SF - Eastern - 32	Air Compressor 185 cfm	Air Compressor	500	137	3.6	Diesel Tier 4	49	0.48
SF - Eastern - 32	Air Compressor 375 cfm	Air Compressor	60	137	0.4	Diesel Tier 4	122	0.48
SF - Eastern - 32	Boom Truck, 12.5 Tn Boom	Crane	616.1	137	4.5	Diesel or Hybrid	100	0.29
SF - Eastern - 32	CAT IT28H, 10640 LB Tool Carrier	Rubber Tired Loaders	222.2	137	1.6	Diesel	145	0.36
SF - Eastern - 32	Grove RT Crane 30T	Crane	500	137	3.6	Diesel	160	0.29
SF - Eastern - 32	Grove RT Crane 15T, 100hp	Crane	116.1	137	0.8	Diesel	100	0.29
SF - Eastern - 32	Grove RT Crane 80T, 275hp	Crane	1018	137	7.4	Diesel	275	0.29
SF - Eastern - 32	Manitowoc 555 150T, 250' Boom	Crane	237.2	137	1.7	Diesel	760	0.29
SF - Eastern - 32	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	500	137	3.6	Diesel	75	0.31
SF - Eastern - 33	Air Compressor 375 cfm	Air Compressor	5680	263	21.6	Diesel Tier 4	122	0.48
SF - Eastern - 33	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	5680	263	21.6	Diesel	110	0.36
SF - Eastern - 33	CAT 825, Roller	Roller	324	263	1.2	Diesel	315	0.38
SF - Eastern - 33	CAT 980 H Wheel Loader	Rubber Tired Loader	324	263	1.2	Diesel	393	0.36
SF - Eastern - 33	CAT CB-634D Vibratory 84"	Rollers	324	263	1.2	Diesel	145	0.38
SF - Eastern - 33	CAT D8 Dozer	Crawler Tractor	324	263	1.2	Diesel	328	0.43
SF - Eastern - 33	CAT Forklift 5,500 LB	Aerial Lift	800	263	3.0	Diesel	63	0.31
SF - Eastern - 33	CAT Grader 16H	Graders	324	263	1.2	Diesel	285	0.41
SF - Eastern - 33	DMM Deep Soil Mixer, 3 Shaft, 808 HP	Bore Drill Rig	2630	263	10	Diesel	522	0.5
SF - Eastern - 33	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	5680	263	21.6	Diesel	500	0.34
SF - Eastern - 33	Grove RT Crane 30T	Crane	5680	263	21.6	Diesel	160	0.29
SF - Eastern - 33	Hydraulic 40 Ton Crane	Crane	800	263	3.0	Diesel	300	0.29
SF - Eastern - 33	Hydraulic 9 Ton Crane	Crane	2201	263	8.4	Diesel	85	0.29
SF - Eastern - 33	Portable, 90 Kw, Diesel, 158HP	Welders	522	263	2	Diesel Tier 4	158	0.45
SF - Eastern - 34	Air Compressor 1600 cfm	Air Compressor	639	771	0.8	Diesel Tier 4	540	0.48
SF - Eastern - 34	250 CFM Compressor Diesel	Air Compressor	146	771	0.2	Diesel Tier 3	75	0.74
SF - Eastern - 34	CAT 950 H Wheel Loader	Rubber Tired Loaders	1028.6	771	1.3	Diesel or Hybrid	130	0.36
SF - Eastern - 34	CAT CB-634D Vibratory 84"	Rollers	3090	771	4.0	Diesel	145	0.38
SF - Eastern - 34	CAT D8 Dozer	Crawler Tractor	3090	771	4.0	Diesel	328	0.43
SF - Eastern - 34	CAT Forklift 5,500 LB	Aerial Lift	16	771	0.0	Diesel	63	0.31
SF - Eastern - 34	CAT Grader 16H	Graders	3090	771	4.0	Diesel	285	0.41
SF - Eastern - 34	CAT Hyd Excavator 1CY	Excavator	785.6	771	1.0	Diesel	138	0.38
SF - Eastern - 34	Hydraulic 40 Ton Crane	Crane	304.6	771	0.4	Diesel	300	0.29
SF - Eastern - 34	Hydraulic 9 Ton Crane	Crane	16	771	0.0	Diesel	85	0.29
SF - Eastern - 34	Hydraulic 55 Ton Crane	Crane	1278	771	1.7	Diesel	350	0.29
SF - Eastern - 34	Manitowoc 777 200 Ton Crane	Crane	2365	771	3.1	Diesel	760	0.29
SF - Eastern - 34	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	639	771	1	Diesel	8	0.56
SF - Eastern - 34	Slurry Wall Techniwell	Pumps	639	771	1	Diesel	500	0.74

SF - Eastern - 35	150 KW Diesel Generator	Generator	0	90	0	Diesel Tier 4	183	0.74
SF - Eastern - 35	Air Compressor 1600 cfm	Air Compressor	160	90	1.8	Diesel Tier 4	540	0.48
SF - Eastern - 35	250 CFM Compressor Diesel	Air Compressor	1647.3	90	18.3	Diesel Tier 3	75	0.74
SF - Eastern - 35	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	0	90	0.0	Diesel Tier 4	210	0.38
SF - Eastern - 35	Water Pump, 6" Diesel	Pumps	400	90	4.4	Diesel	13	0.74
SF - Eastern - 35	Hydraulic 40 Ton Crane	Crane	760	90	8.4	Diesel	300	0.29
SF - Eastern - 35	Manitowoc 777 200 Ton Crane	Crane	922.9	90	10.3	Diesel	760	0.29
SF - Eastern - 35	Manitowoc 999-275 Ton Crane	Crane	393.6	90	4.4	Diesel	900	0.29
SF - Eastern - 35	Telescope RT Forklift 5500	Forklift	160	90	1.8	Diesel	63	0.2
SF - Eastern - 35	Truck Crane Lattice Boom 90T	Crane	160	90	1.8	Diesel Tier 4	300	0.29
SF - Eastern - 36	250 CFM Compressor Diesel	Air Compressor	5103.9	343	14.9	Diesel Tier 3	75	0.74
SF - Eastern - 36	CAT 988 H Wheel Loader	Rubber Tired Loader	2300	343	6.7	Diesel	400	0.36
SF - Eastern - 36	CAT D8 Dozer	Crawler Tractor	2300	343	6.7	Diesel	328	0.43
SF - Eastern - 36	CAT Forklift 5,500 LB	Aerial Lift	2590	343	7.6	Diesel	63	0.31
SF - Eastern - 36	Hydraulic 40 Ton Crane	Crane	2990	343	8.7	Diesel	300	0.29
SF - Eastern - 36	Hydraulic 9 Ton Crane	Crane	2590	343	7.6	Diesel	85	0.29
SF - Eastern - 37	Air Compressor 1600 cfm	Air Compressor	100	36	2.8	Diesel Tier 4	540	0.48
SF - Eastern - 37	Hydraulic 40 Ton Crane	Crane	100	36	2.8	Diesel	300	0.29
SF - Eastern - 37	Hydraulic 55 Ton Crane	Crane	715	36	19.9	Diesel	350	0.29
SF - Eastern - 37	Manitowoc 777 200 Ton Crane	Crane	715	36	19.9	Diesel	760	0.29
SF - Eastern - 37	Telescope RT Forklift 5500	Forklift	424	36	11.8	Diesel	63	0.2
SF - Eastern - 37	Truck Crane Lattice Boom 90T	Crane	100	36	2.8	Diesel Tier 4	300	0.29
SF - Eastern - 38	150 KW Diesel Generator	Generator	0	952	0.	Diesel Tier 4	183	0.74
SF - Eastern - 38	Air Compressor 1600 cfm	Air Compressor	639	952	0.7	Diesel Tier 4	540	0.48
SF - Eastern - 38	250 CFM Compressor Diesel	Air Compressor	146	952	0.2	Diesel Tier 3	75	0.74
SF - Eastern - 38	Air Compressor 375 cfm	Air Compressor	2133	952	2.2	Diesel Tier 4	122	0.48
SF - Eastern - 38	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	2133	952	2.2	Diesel	110	0.36
SF - Eastern - 38	CAT 950 H Wheel Loader	Rubber Tired Loaders	1028.6	952	1.1	Diesel or Hybrid	130	0.36
SF - Eastern - 38	CAT CB-634D Vibratory 84"	Rollers	3090	952	3.2	Diesel	145	0.38
SF - Eastern - 38	CAT D8 Dozer	Crawler Tractor	3090	952	3.2	Diesel	328	0.43
SF - Eastern - 38	CAT Forklift 5,500 LB	Aerial Lift	16	952	0.0	Diesel	63	0.31
SF - Eastern - 38	CAT Grader 16H	Graders	3090	952	3.2	Diesel	285	0.41
SF - Eastern - 38	CAT Hyd Excavator 1CY	Excavator	405.6	952	0.4	Diesel	138	0.38
SF - Eastern - 38	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	1278	952	1.3	Diesel Tier 4	210	0.38
SF - Eastern - 38	Water Pump, 6" Diesel	Pumps	400	952	0.4	Diesel	13	0.74
SF - Eastern - 38	DMM Deep Soil Mixer, 3 Shaft, 808 HP	Bore Drill Rig	2133	952	2.2	Diesel	522	0.5
SF - Eastern - 38	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	2133	952	2.2	Diesel	500	0.34
SF - Eastern - 38	Grove RT Crane 30T	Crane	2133	952	2.2	Diesel	160	0.29
SF - Eastern - 38	Hydraulic 40 Ton Crane	Crane	304.6	952	0.3	Diesel	300	0.29
SF - Eastern - 38	Hydraulic 9 Ton Crane	Crane	116	952	0.1	Diesel	85	0.29
SF - Eastern - 38	Hydraulic 55 Ton Crane	Crane	1278	952	1.3	Diesel	350	0.29
SF - Eastern - 38	CAT Hyd Excavator 1CY	Excavator	380	952	0.4	Diesel	138	0.38
SF - Eastern - 38	Manitowoc 777 200 Ton Crane	Crane	1726	952	1.8	Diesel	760	0.29
SF - Eastern - 38	Manitowoc 200 Ton Crane	Crane	639	952	0.7	Diesel	760	0.29
SF - Eastern - 38	Portable, 90 Kw, Diesel, 158HP	Welders	402	952	<1	Diesel Tier 4	158	0.45
SF - Eastern - 38	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	639	952	1	Diesel	8	0.56
SF - Eastern - 38	Slurry Wall Techniwell	Pumps	639	952	1	Diesel	500	0.74
SF - Eastern - 39	Air Compressor 1600 cfm	Air Compressor	160	277	0.6	Diesel Tier 4	540	0.48
SF - Eastern - 39	250 CFM Compressor Diesel	Air Compressor	1647.3	277	5.9	Diesel Tier 3	75	0.74
SF - Eastern - 39	Telescope RT Forklift 5500	Forklift	160	277	0.6	Diesel	63	0.2
SF - Eastern - 39	Truck Crane Lattice Boom 90T	Crane	160	277	0.6	Diesel Tier 4	300	0.29
SF - Eastern - 39	Hydraulic 40 Ton Crane	Crane	660	277	2.4	Diesel	300	0.29
SF - Eastern - 39	Manitowoc 777 200 Ton Crane Manitowoc	Crane	922.9	277	3.3	Diesel	760	0.29
SF - Eastern - 39	999-275 Ton Crane	Crane	393.6	277	1.4	Diesel	900	0.29
SF - Eastern - 40	250 CFM Compressor Diesel	Air Compressor	5115.3	418	12.2	Diesel Tier 3	75	0.74
SF - Eastern - 40	CAT 988 H Wheel Loader	Rubber Tired Loader	2305	418	5.5	Diesel	400	0.36
SF - Eastern - 40	CAT D8 Dozer	Crawler Tractor	2305	418	5.5	Diesel	328	0.43
SF - Eastern - 40	CAT Forklift 5,500 LB	Aerial Lift	2504	418	6.0	Diesel	63	0.31
SF - Eastern - 40	Hydraulic 40 Ton Crane	Crane	2904	418	6.9	Diesel	300	0.29
SF - Eastern - 40	Hydraulic 9 Ton Crane	Crane	2504	418	6.0	Diesel	85	0.29
SF - Eastern - 41	Air Compressor 1600 cfm	Air Compressor	100	38	2.6	Diesel Tier 4	540	0.48
SF - Eastern - 41	Hydraulic 40 Ton Crane	Crane	100	38	2.6	Diesel	300	0.29
SF - Eastern - 41	Hydraulic 55 Ton Crane	Crane	802	38	21.1	Diesel	350	0.29
SF - Eastern - 41	Manitowoc 777 200 Ton Crane Telescope	Crane	715	38	18.8	Diesel	760	0.29
SF - Eastern - 41	RT Forklift 5500	Forklift	424	38	11.2	Diesel	63	0.2
SF - Eastern - 41	Truck Crane Lattice Boom 90T	Crane	100	38	2.6	Diesel Tier 4	300	0.29
SF - Eastern - 42	Air Compressor 375 cfm	Air Compressor	3547	2367	1.5	Diesel Tier 4	122	0.48
SF - Eastern - 42	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	3547	2367	1.5	Diesel	110	0.36
SF - Eastern - 42	CAT 825, Roller	Roller	202	2367	0.1	Diesel	315	0.38
SF - Eastern - 42	CAT 980 H Wheel Loader	Rubber Tired Loader	202	2367	0.1	Diesel	393	0.36
SF - Eastern - 42	CAT CB-634D Vibratory 84"	Rollers	4054.4	2367	1.7	Diesel	145	0.38
SF - Eastern - 42	CAT D8 Dozer	Crawler Tractor	4054.4	2367	1.7	Diesel	328	0.43
SF - Eastern - 42	CAT Forklift 5,500 LB	Aerial Lift	400	2367	0.2	Diesel	63	0.31
SF - Eastern - 42	CAT Grader 16H	Graders	4054.4	2367	1.7	Diesel	285	0.41
SF - Eastern - 42	DMM Deep Soil Mixer, 3 Shaft	Bore Drill Rig	3547	2367	1.5	Diesel	522	0.5
SF - Eastern - 42	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	3547	2367	1.5	Diesel	500	0.34
SF - Eastern - 42	Grove RT Crane 30T	Crane	3547	2367	1.5	Diesel	160	0.29
SF - Eastern - 42	Hydraulic 40 Ton Crane	Crane	400	2367	0.2	Diesel	300	0.29
SF - Eastern - 42	Hydraulic 9 Ton Crane	Crane	463	2367	0.2	Diesel	85	0.29
SF - Eastern - 42	Portable, 90 Kw, Diesel, 158HP	Welders	1000	2367	<1	Diesel Tier 4	158	0.45
SF - Eastern - 43	Air Compressor 1600 cfm	Air Compressor	639	240	2.7	Diesel Tier 4	540	0.48
SF - Eastern - 43	250 CFM Compressor Diesel	Air Compressor	146	240	0.6	Diesel Tier 3	75	0.74
SF - Eastern - 43	CAT CB-634D Vibratory 84"	Rollers	122	240	0.5	Diesel	145	0.38
SF - Eastern - 43	CAT D8 Dozer	Crawler Tractor	122	240	0.5	Diesel	328	0.43
SF - Eastern - 43	CAT Forklift 5,500 LB	Aerial Lift	16	240	0.1	Diesel	63	0.31
SF - Eastern - 43	CAT Grader 16H	Graders	122	240	0.5	Diesel	285	0.41
SF - Eastern - 43	CAT Hyd Excavator 1CY	Excavator	405.6	240	1.7	Diesel	138	0.38
SF - Eastern - 43	Water Pump, 6" Diesel	Pumps	400	240	1.7	Diesel	13	0.74
SF - Eastern - 43	Hydraulic 40 Ton Crane	Crane	106	240	0.4	Diesel	300	0.29
SF - Eastern - 43	Hydraulic 9 Ton Crane	Crane	554	240	2.3	Diesel	85	0.29
SF - Eastern - 43	Hydraulic 55 Ton Crane	Crane	1201	240	5.0	Diesel	350	0.29
SF - Eastern - 43	CAT Hyd Excavator 1CY	Excavator	380	240	1.6	Diesel	138	0.38
SF - Eastern - 43	Manitowoc 777 200 Ton Crane	Crane	1543	240	6.4	Diesel	760	0.29

SF - Eastern - 43	Manitowoc 200 Ton Crane	Crane	562	240	2.3	Diesel	760	0.29
SF - Eastern - 43	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	639	240	3	Diesel	8	0.56
SF - Eastern - 43	Slurry Wall Techniwell	Pumps	639	240	3	Diesel	500	0.74
SF - Eastern - 43	CAT 825, Roller	Roller	122	240	0.5	Diesel	315	0.38
SF - Eastern - 43	CAT 950 H Wheel Loader	Rubber Tired Loaders	1028.6	240	4.3	Diesel or Hybrid	130	0.36
SF - Eastern - 43	CAT 980 H Wheel Loader	Rubber Tired Loader	122	240	0.5	Diesel	393	0.36
SF - Eastern - 44	250 CFM Compressor Diesel	Air Compressor	965.9	93	10.4	Diesel Tier 3	75	0.74
SF - Eastern - 44	Manitowoc 777 200 Ton Crane	Crane	829	93	8.9	Diesel	760	0.29
SF - Eastern - 44	Manitowoc 999-275 Ton Crane	Crane	306.1	93	3.3	Diesel	900	0.29
SF - Eastern - 45	CAT 631G Scraper, Conventional	Scraper	73.4	166	0.4	Diesel	515	0.48
SF - Eastern - 45	CAT 980 H Wheel Loader	Rubber Tired Loader	1334.6	166	8.0	Diesel	393	0.36
SF - Eastern - 45	CAT CB-634D Vibratory 84"	Rollers	3033	166	18.3	Diesel	145	0.38
SF - Eastern - 45	CAT D8 Dozer	Crawler Tractor	4404.3	166	26.5	Diesel	328	0.43
SF - Eastern - 45	CAT Grader 16H	Graders	36.7	166	0.2	Diesel	285	0.41
SF - Eastern - 46	Air Compressor 1600 cfm	Air Compressor	639	446	1.4	Diesel Tier 4	540	0.48
SF - Eastern - 46	250 CFM Compressor Diesel	Air Compressor	146	446	0.3	Diesel Tier 3	75	0.74
SF - Eastern - 46	CAT CB-634D Vibratory 84"	Rollers	3515.3	446	7.9	Diesel	145	0.38
SF - Eastern - 46	CAT D8 Dozer	Crawler Tractor	3515.3	446	7.9	Diesel	328	0.43
SF - Eastern - 46	CAT Forklift 5,500 LB	Aerial Lift	96	446	0.2	Diesel	63	0.31
SF - Eastern - 46	CAT Grader 16H	Graders	3513.3	446	7.9	Diesel	285	0.41
SF - Eastern - 46	CAT Hyd Excavator 1CY	Excavator	405.6	446	0.9	Diesel	138	0.38
SF - Eastern - 46	Water Pump, 6" Diesel	Pumps	400	446	0.9	Diesel	13	0.74
SF - Eastern - 46	Hydraulic 40 Ton Crane	Crane	384.6	446	0.9	Diesel	300	0.29
SF - Eastern - 46	Hydraulic 9 Ton Crane	Crane	196	446	0.4	Diesel	85	0.29
SF - Eastern - 46	Hydraulic 55 Ton Crane	Crane	1201	446	2.7	Diesel	350	0.29
SF - Eastern - 46	CAT Hyd Excavator 1CY	Excavator	380	446	0.9	Diesel	138	0.38
SF - Eastern - 46	Manitowoc 777 200 Ton Crane	Crane	1543	446	3.5	Diesel	760	0.29
SF - Eastern - 46	Manitowoc 200 Ton Crane	Crane	562	446	1.3	Diesel	760	0.29
SF - Eastern - 46	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	639	446	1	Diesel	8	0.56
SF - Eastern - 46	Slurry Wall Techniwell	Pumps	639	446	1	Diesel	500	0.74
SF - Eastern - 46	CAT 950 H Wheel Loader	Rubber Tired Loaders	1028.6	446	2.3	Diesel or Hybrid	130	0.36
SF - Eastern - 47	Air Compressor 1600 cfm	Air Compressor	160	60	2.7	Diesel Tier 4	540	0.48
SF - Eastern - 47	250 CFM Compressor Diesel	Air Compressor	965.9	60	16.1	Diesel Tier 3	75	0.74
SF - Eastern - 47	Hydraulic 40 Ton Crane	Crane	160	60	2.7	Diesel	300	0.29
SF - Eastern - 47	Manitowoc 777 200 Ton Crane	Crane	829	60	13.8	Diesel	760	0.29
SF - Eastern - 47	Manitowoc 999-275 Ton Crane	Crane	306.1	60	5.1	Diesel	900	0.29
SF - Eastern - 47	Telescope RT Forklift 5500	Forklift	160	60	2.7	Diesel	63	0.2
SF - Eastern - 47	Truck Crane Lattice Boom 90T	Crane	324.2	60	5.4	Diesel Tier 4	300	0.29
SF - Eastern - 48	250 CFM Compressor Diesel	Air Compressor	36319.7	2113	17.2	Diesel Tier 3	75	0.74
SF - Eastern - 48	CAT 988 H Wheel Loader	Rubber Tired Loader	17352	2113	8.2	Diesel	400	0.36
SF - Eastern - 48	CAT D8 Dozer	Crawler Tractor	17352	2113	8.2	Diesel	328	0.43
SF - Eastern - 48	CAT Forklift 5,500 LB	Aerial Lift	16458	2113	7.8	Diesel	63	0.31
SF - Eastern - 48	Hydraulic 40 Ton Crane	Crane	17358	2113	8.2	Diesel	300	0.29
SF - Eastern - 48	Hydraulic 9 Ton Crane	Crane	16458	2113	7.8	Diesel	85	0.29
SF - Eastern - 48	Manitowoc 777 200 Ton Crane	Crane	400	2113	0.2	Diesel	760	0.29
SF - Eastern - 49	Air Compressor 1600 cfm	Air Compressor	100	71	1.4	Diesel Tier 4	540	0.48
SF - Eastern - 49	Hydraulic 40 Ton Crane	Crane	180	71	2.5	Diesel	300	0.29
SF - Eastern - 49	Hydraulic 55 Ton Crane	Crane	1115	71	15.7	Diesel	350	0.29
SF - Eastern - 49	Manitowoc 777 200 Ton Crane	Crane	715	71	10.1	Diesel	760	0.29
SF - Eastern - 49	Telescope RT Forklift 5500	Forklift	1050	71	14.8	Diesel	63	0.2
SF - Eastern - 49	Truck Crane Lattice Boom 90T	Crane	100	71	1.4	Diesel Tier 4	300	0.29
SF - Eastern - 49	CAT Forklift 5,500 LB	Aerial Lift	80	71	1.1	Diesel	63	0.31
SF - Eastern - 49	Hydraulic 9 Ton Crane	Crane	80	71	1.1	Diesel	85	0.29
SF - Eastern - 49	400A Diesel Welder, Trailer Mounted	Welders	100	71	1.4	Diesel	22	0.45
SF - Eastern - 50	Air Compressor 1600 cfm	Air Compressor	400	41	9.8	Diesel Tier 4	540	0.48
SF - Eastern - 50	Boom Truck, 12.5 Tn Boom	Crane	200	41	4.9	Diesel or Hybrid	100	0.29
SF - Eastern - 50	Grove RT Crane 80T, 275hp	Crane	400	41	9.8	Diesel	275	0.29
SF - Eastern - 50	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	200	41	4.9	Diesel	75	0.31
SF - Eastern - 51	Air Compressor 1600 cfm	Air Compressor	400	43	9.3	Diesel Tier 4	540	0.48
SF - Eastern - 51	Boom Truck, 12.5 Tn Boom	Crane	200	43	4.7	Diesel or Hybrid	100	0.29
SF - Eastern - 51	Grove RT Crane 80T, 275hp	Crane	400	43	9.3	Diesel	275	0.29
SF - Eastern - 51	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	200	43	4.7	Diesel	75	0.31
SF - Eastern - 52	400A Diesel Welder, Trailer Mounted	Welders	3519.6	2576	1.4	Diesel	22	0.45
SF - Eastern - 52	Bobcat S630 Skid Steer Loader	Skid Loader	17598.2	2576	6.8	Diesel	74	0.37
SF - Eastern - 52	CAT 962 H Wheel Loader	Rubber Tired Loader	35476.4	2576	13.8	Diesel	230	0.36
SF - Eastern - 52	Portable, 300 Kw, Diesel, 36HP	Welders	35196.3	2576	13.7	Diesel Tier 4	400	0.45
SF - Eastern - 53	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	101	11	9	Diesel or Hybrid	224	0.42
SF - Eastern - 53	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	101	11	9	Diesel or Hybrid	137	0.38
SF - Eastern - 53	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	101	11	9	Diesel or Hybrid	133	0.38
SF - Eastern - 53	CAT LOADER/HOE 416 E	Rubber Tired Loaders	101	11	9.2	Diesel	78	0.36
SF - Eastern - 54	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	101	12	8	Diesel or Hybrid	224	0.42
SF - Eastern - 54	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	101	12	8	Diesel or Hybrid	137	0.38
SF - Eastern - 54	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	101	12	8	Diesel or Hybrid	133	0.38
SF - Eastern - 54	CAT LOADER/HOE 416 E	Rubber Tired Loaders	101	12	8.4	Diesel	78	0.36
SF - Eastern - 55	CAT 12 M	Grader	210	240	0.9	Diesel	173	0.41
SF - Eastern - 55	CAT 390 MASS EXC	Excavator	200	240	0.8	Diesel	534	0.38
SF - Eastern - 55	CAT D8Rii, Dozer w winch	Crawler Tractor	2000	240	8.3	Diesel	310	0.43
SF - Eastern - 55	CAT 631G Scraper, Conventional	Scraper	12960	240	54	Diesel	515	0.48
SF - Eastern - 55	Disk, Towed	Off Highway Tractor	3500	240	14	Diesel	140	0.44
SF - Eastern - 55	CAT 966 Gil Wheel Loader	Rubber Tired Loaders	40	240	0.2	Diesel	286	0.36
SF - Eastern - 55	CAT D9R, Dozer w ripper	Crawler Tractor	1180	240	4.9	Diesel	410	0.43
SF - Eastern - 55	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	1240	240	5.2	Diesel	80	0.44
SF - Eastern - 55	Hydro Mulcher, 18 HP	Pumps	120	240	0.5	Diesel	25	0.74
SF - Eastern - 55	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	1000	240	4.2	Diesel	345	0.38

**Offroad Equipment (Electric) Inventory for Southern Complex on Byron Tract - Eastern
Option 2**

Electricity for TBM Operations included in the Summary Workbook

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
SF - Eastern - 1	400A, Electric Welder	8.9	208	15	0.642
SF - Eastern - 2	400A, Electric Welder	44.4	324	15	2.056
SF - Eastern - 6	400A, Electric Welder	790.9	169	15	70.198
SF - Eastern - 6	Water Pump, 4" Electrical, Submersible	15820	169	1	93.609
SF - Eastern - 7	400A, Electric Welder	2924.3	500	15	87.729
SF - Eastern - 9	400A, Electric Welder	1000	225	15	66.667
SF - Eastern - 9	Water Pump, 4" Electrical, Submersible	600	225	1	2.667
SF - Eastern - 10	Water Pump, 4" Electrical, Submersible	48.8	85	1	0.574
SF - Eastern - 11	400A, Electric Welder	927.1	296	15	46.981
SF - Eastern - 12	400A, Electric Welder	17828.2	731	15	365.832
SF - Eastern - 12	Water Pump, 4" Electrical, Submersible	8160.3	731	1	11.163
SF - Eastern - 13	400A, Electric Welder	4717.4	876	15	80.777
SF - Eastern - 13	Water Pump, 4" Electrical, Submersible	4028.6	876	1	4.599
SF - Eastern - 14	Water Pump, 4" Electrical, Submersible	6311.2	671	1	9.406
SF - Eastern - 15B	400A, Electric Welder	80	366	15	3.279
SF - Eastern - 15B	Water Pump, 4" Electrical, Submersible	3589.3	366	1	9.807
SF - Eastern - 16	400A, Electric Welder	1146.7	163	15	105.525
SF - Eastern - 16	Water Pump, 4" Electrical, Submersible	602.2	163	1	3.694
SF - Eastern - 17	400A, Electric Welder	1283.3	34	15	566.162
SF - Eastern - 17	Water Pump, 4" Electrical, Submersible	161.9	34	1	4.762
SF - Eastern - 18	400A, Electric Welder	0.2	31	15	0.097
SF - Eastern - 18	Water Pump, 4" Electrical, Submersible	88.3	31	1	2.848
SF - Eastern - 19	400A, Electric Welder	2290	354	15	97.034
SF - Eastern - 19	Water Pump, 4" Electrical, Submersible	1615.9	354	1	4.565
SF - Eastern - 20	400A, Electric Welder	2209.8	754	15	43.962
SF - Eastern - 20	Water Pump, 4" Electrical, Submersible	4419.5	754	1	5.861
SF - Eastern - 21	400A, Electric Welder	3333.3	984	15	50.813
SF - Eastern - 23	400A, Electric Welder	120.5	185	15	9.770
SF - Eastern - 26	Water Pump, 4" Electrical, Submersible	20738.5	1355	1	15.305
SF - Eastern - 29	Water Pump, 6" Electrical, Submersible	535.4	275	1	1.947
SF - Eastern - 30	Water Pump, 4" Electrical, Submersible	1173	185	1	6.341
SF - Eastern - 30	Water Pump, 6" Electrical, Submersible	38	185	1	0.205
SF - Eastern - 31	400A, Electric Welder	350	522	15	10.057
SF - Eastern - 31	Water Pump, 4" Electrical, Submersible	21569.1	522	1	41.320
SF - Eastern - 31	Water Pump, 6" Electrical, Submersible	506.6	522	1	0.970
SF - Eastern - 32	400A, Electric Welder	500	137	15	54.745
SF - Eastern - 33	Water Pump, 4" Electrical, Submersible	5680	263	1	21.597
SF - Eastern - 35	Gantry Crane	500	90	0.25	1
SF - Eastern - 36	Axial Fan 114,000 CFM	18465	343	50	2,692
SF - Eastern - 36	Gantry Crane	9170	343	0.25	7
SF - Eastern - 38	Water Pump, 4" Electrical, Submersible	2133	952	1	2.241

SF - Eastern - 39	Gantry Crane	500	277	0.25	0
SF - Eastern - 40	Axial Fan 114,000 CFM	18491	418	50	2,212
SF - Eastern - 40	Gantry Crane	9181	418	0.25	5
SF - Eastern - 41	Gantry Crane	237	38	0.25	2
SF - Eastern - 42	Water Pump, 4" Electrical, Submersible	3547	2367	1	1.499
SF - Eastern - 43	Water Pump, 4" Electrical, Submersible	3547	240	1	14.779
SF - Eastern - 48	Axial Fan 114,000 CFM	287908.3	2113	50	6,813
SF - Eastern - 48	Gantry Crane	70677	2113	0.25	8
SF - Eastern - 49	Gantry Crane	550	71	0.25	2
SF - Eastern - 50	400A, Electric Welder	400	41	15	146.341
SF - Eastern - 51	400A, Electric Welder	400	43	15	139.535
SF-Eastern-4	Light Plant, 4 lite, 1000w	813.4	228		
SF-Eastern-26	Light Plant, 4 lite, 1000w	124751	1355		
SF-Eastern-29	Light Plant, 4 lite, 1000w	67	275		
SF-Eastern-30	Light Plant, 4 lite, 1000w	1077.7	185		
SF-Eastern-39	Conc Pump 100 cy/hr	368	277		
SF-Eastern-43	150 kW Generator	100	240		
SF-Eastern-43	Conc Pump 100 cy/hr	1628	240		
SF-Eastern-44	Conc Pump 100 cy/hr	324.2	93		
SF-Eastern-46	150 kW Generator	100	446		
SF-Eastern-46	Conc Pump 100 cy/hr	1364	446		
SF-Eastern-52	Conc Pump 100 cy/hr	8632.6	2576		

Vehicle Inventory for Southern Complex on Byron Tract - Eastern
Option 2

Code	Vehicle	Primary Trip Purpose/Location <small>(Vehicle destination Stationed at)</small>	# day	Vehicle Hours	Hours/Trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency <small>(mpg)</small>
Vehicle Use on Paved Roads --- and Not on Construction Site												
SF - Eastern - 1	Pickup 1/2T 2 WD	Materials from Stockton	208	3208.9	1.1	3008	14.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 1	Pickup 3/4T, 4wd	Materials from Stockton	208	3200.0	1.1	3000	14.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 1	Truck Flatbed 4 T Highway	Materials from Stockton	208	799.7	1.1	750	3.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 1	Truck Flatbed 4 T Highway	Two Canes and one lift from Stockton	1	3.2	1.1	3	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 2	Pickup 1/2T 2 WD	Materials from Stockton	324	16044.4	1.1	15042	46.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 2	Pickup 3/4T, 4wd	Materials from Stockton	324	16000.0	1.1	15000	46.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 2	Truck Flatbed 4 T Highway	Materials from Stockton	324	4000.3	1.1	3750	11.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 3	Pickup 1/2T 2 WD	Materials from Stockton	252	2480.0	1.1	2325	9.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 3	Pickup 3/4T, 4wd	Materials from Stockton	252	420.2	1.1	581	2.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 3	Truck End Dump/ 55-13cy Hwy	Materials from Stockton	252	378.7	1.1	355	1.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 3	Truck Flatbed 4 T Highway	Crane, two Rollers, two Loaders, Tractor, Grader, and Excavator	1	8.5	1.1	8	8.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 4	Pickup 1/2T 2 WD	Materials from Stockton	228	1761.3	1.1	1651	7.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 4	Pickup 3/4T, 4wd	Materials from Stockton	228	545.3	1.1	511	2.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 4	Truck End Dump/ 55-13cy Hwy	Materials from Stockton	228	407.3	1.1	382	1.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 4	Truck Flatbed 4 T Highway	Materials from Stockton	228	1424.2	1.1	1335	5.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 4	Truck Flatbed, 30T, Hwy	Materials from Stockton	228	30.4	1.1	29	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 4	Truck Flatbed 4 T Highway	Materials from Stockton	228	2531.2	1.1	2373	10.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 4	Truck End Dump/ 55-20cy Hwy	Base Rock and Gravel from Vernalis	228	968.8	0.7	1384	6	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Eastern - 4	Truck Flatbed 4 T Highway	One Roller and one Crane from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 4	Truck Flatbed 4 T Highway	Asphalt Paver and 2 Rollers from and to Stockton	2	6.4	1.1	6	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 5	Pickup 1/2T 2 WD	Materials from Stockton	21	160.0	1.1	150	7.1	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 5	Pickup 3/4T, 4wd	Materials from Stockton	21	104.1	1.1	98	4.6	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 5	Truck End Dump/ 55-13cy Hwy	Materials from Stockton	21	320.0	1.1	300	14.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 5	Truck Flatbed 4 T Highway	Materials from Stockton	21	1261.9	1.1	1183	54.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 5	Truck Flatbed, 30T, Hwy	Rebar from Livermore	21	6.2	0.6	11	0.5	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel	
SF - Eastern - 5	Truck End Dump/ 55-20cy Hwy	Base Rock, Gravel, and Flyash from Vernalis	21	4202.0	0.7	6003	286	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Eastern - 5	Truck End Dump/ 55-13cy Hwy	Cement, Aggregate, and Sand from Stockton	21	279.9	1.1	262	12.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 5	Truck End Dump/ 21cy 30T	Asphalt, Hot Mix Delivered from Vernalis	21	153	0.7	219	10.4	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel Tier 4	
SF - Eastern - 5	Truck Flatbed 4 T Highway	Two Loaders and Tractor from Stockton	1	3.2	1.1	3	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 6	Mechanics Truck	Materials from Stockton	169	15820.0	1.1	14831	88	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 6	Pickup 1/2T 2 WD	Materials from Stockton	169	16610.9	1.1	15573	92.1	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 6	Truck Flatbed 4 T Highway	Materials from Stockton	169	15820.0	1.1	14831	87.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 6	Truck Flatbed 4 T Highway	Materials from Stockton	169	115.2	1.1	108	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 6	Truck Flatbed 4 T Highway	One Loader from Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 7	Pickup 1/2T 2 WD	Materials from Stockton	500	38004.3	1.1	35629	71.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 7	Truck End Dump/ 55-13cy Hwy	Materials from Stockton	500	200.0	1.1	188	0.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 7	Truck Flatbed 4 T Highway	Materials from Stockton	500	15600.0	1.1	14625	29.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 7	Truck Flatbed 4 T Highway	Materials from Stockton	500	385.1	1.1	361	0.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 7	Truck End Dump/ 55-20cy Hwy	Base Rock from Vernalis	500	7771.4	0.7	11102	22	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Eastern - 8	Truck Flatbed 4 T Highway	Materials from Stockton	1321	10400.0	1.1	9750	7.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 8	Truck Flatbed 30 T Highway	Materials from Stockton	1321	7164.2	1.1	6716	5.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 8	Truck End Dump/ 55-20cy Hwy	Base Rock, Gravel, and Flyash from Vernalis	1321	10095.4	0.7	14622	11	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Eastern - 8	Truck Flatbed 4 T Highway	Two Canes from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 9	Pickup 1/2T 2 WD	Materials from Stockton	225	1598.3	1.1	1498	6.7	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 9	Pickup 3/4T, 4wd	Materials from Stockton	225	83.3	1.1	78	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 9	Truck End Dump/ 55-13cy Hwy	Materials from Stockton	225	133.3	1.1	125	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 9	Truck Flatbed 4 T Highway	Materials from Stockton	225	266.7	1.1	250	1.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 9	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	225	40.0	1.1	38	0.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 9	Truck Flatbed 4 T Highway	Materials from Stockton	225	1043.2	1.1	978	4.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 9	Truck Flatbed, 30T, Hwy	Rebar from Livermore	225	332.1	0.6	586	2.6	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel	
SF - Eastern - 9	Truck End Dump/ 55-20cy Hwy	Gravel and Flyash from Vernalis	225	1857.8	0.7	2654	12	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Eastern - 9	Truck End Dump/ 55-13cy Hwy	Cement, Aggregate, and Sand from Stockton	225	252.8	1.1	237	1.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 9	Truck Flatbed 4 T Highway	Loader and Crane from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 10	Truck Flatbed, 30T, Hwy	Materials from Stockton	85	81.3	1.1	76	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 10	Pickup 3/4T, 4wd	Materials from Stockton	85	74.2	1.1	70	0.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 10	Truck Flatbed 4 T Highway	Materials from Stockton	85	50.1	1.1	47	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 10	Truck Flatbed, 30T, Hwy	Rebar from Livermore	85	22.7	0.6	40	0.5	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel	
SF - Eastern - 10	Truck End Dump/ 55-20cy Hwy	Flyash from Vernalis	85	55.3	0.7	79	1	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Eastern - 10	Truck End Dump/ 55-13cy Hwy	Cement, Aggregate, and Sand from Stockton	85	2533.0	1.1	2375	27.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 11	Mechanics Truck	Materials from Stockton	296	8562.9	1.1	8028	27	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 11	Pickup 1/2T 2 WD	Materials from Stockton	296	8336.7	1.1	7816	26.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 11	Pickup 3/4T, 4wd	Materials from Stockton	296	208.8	1.1	196	0.7	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 11	Truck Flatbed 4 T Highway	Materials from Stockton	296	8562.9	1.1	8028	27.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 11	Truck Flatbed 4 T Highway	Materials from Stockton	296	146.1	1.1	137	0.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 11	Truck Flatbed, 30T, Hwy	Rebar from Livermore	296	46.5	0.6	82	0.3	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel	
SF - Eastern - 11	Truck End Dump/ 55-20cy Hwy	Flyash from Vernalis	296	26.9	0.7	38	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Eastern - 11	Truck End Dump/ 55-13cy Hwy	Cement, Aggregate, and Sand from Stockton	296	1230.5	1.1	1154	3.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 9	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	731	9215.5	1.1	8640	11.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 12	Pickup 1/2T 2 WD	Materials from Stockton	731	11202.4	1.1	10502	14.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 12	Truck Flatbed 4 T Highway	Crane, Two Excavators, and Tractor from Stockton	1	4.3	1.1	4	4.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 13	Pickup 1/2T 2 WD	Materials from Stockton	876	5162.5	1.1	4840	5.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 13	Pickup 3/4T, 4wd	Materials from Stockton	876	34.2	1.1	32	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 13	Truck Flatbed 4 T Highway	Materials from Stockton	876	2924.8	1.1	2742	3.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 13	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	876	1700.2	1.1	1594	1.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 13	Truck Flatbed 4 T Highway	Crane from Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 14	Pickup 1/2T 2 WD	Materials from Stockton	671	2395.3	1.1	2246	3.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 14	Truck Flatbed 4 T Highway	Materials from Stockton	671	1562.7	1.1	1465	2.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 14	Truck End Dump/ 55-13cy Hwy	Cement, Aggregate, and Sand from Stockton	671	492.7	1.1	462	0.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	

SF - Eastern - 14	Truck, FlatBed, 10T, Hwy	Rebar from Livermore	671	4.0	0.6	7	0.0	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern - 14	Truck/ End Dump/ 55-20ty/ Hwy	Flyash from Vernalis	671	10.8	0.7	15	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 15A	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	241	1700.2	1.1	1594	6.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 15B	Pickup 1/2T 2 WD	Materials from Stockton	366	345.9	1.1	320	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 15B	Pickup, 3/4T, 4wd	Materials from Stockton	366	396.4	1.1	372	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 15B	Truck Flatbed 4 T Highway	Materials from Stockton	366	416.4	1.1	578	1.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 15B	Truck/ End Dump/ 55-20ty/ Hwy	Materials from Stockton	366	202.7	1.1	100	1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 15B	Truck/ End Dump/ 55-13ty/ Hwy	Cement, Aggregate, and Sand from Stockton	366	1230.4	1.1	1154	3.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 15B	Truck, FlatBed, 10T, Hwy	Rebar from Livermore	366	46.5	0.6	82	0.2	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern - 15B	Truck/ End Dump/ 55-20ty/ Hwy	Flyash from Vernalis	366	26.9	0.7	18	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 15B	Truck Flatbed 4 T Highway	Loader from Stockton	366	1.1	1.1	1	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 16	Pickup 1/2T 2 WD	Materials from Stockton	163	1146.7	1.1	1075	6.6	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 16	Pickup, 3/4T, 4wd	Materials from Stockton	163	284.6	1.1	267	1.6	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 16	Truck/ End Dump/ 55-20ty/ Hwy	Flyash from Vernalis	163	22.0	0.7	11	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 17	Pickup 1/2T 2 WD	Materials from Stockton	34	1283.3	1.1	1203	35.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 17	Pickup, 3/4T, 4wd	Materials from Stockton	34	11.3	1.1	11	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 18	Pickup 1/2T 2 WD	Materials from Stockton	31	0.2	1.1	0	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 18	Pickup, 3/4T, 4wd	Materials from Stockton	31	25.2	1.1	24	0.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 18	Truck/ End Dump/ 55-13ty/ Hwy	Cement, Aggregate, and Sand from Stockton	31	492.7	1.1	462	14.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 18	Truck/ End Dump/ 55-20ty/ Hwy	Flyash from Vernalis	31	10.8	0.7	15	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 18	Truck, FlatBed, 10T, Hwy	Rebar from Livermore	31	4.1	0.6	7	0.2	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern - 19	Pickup 1/2T 2 WD	Materials from Stockton	354	3641.2	1.1	3404	9.6	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 19	Pickup, 3/4T, 4wd	Materials from Stockton	354	530.4	1.1	487	1.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 19	Truck/ End Dump/ 55-20ty/ Hwy	Materials from Stockton	354	180.3	1.1	169	0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 19	Truck/ End Dump/ 55-13ty/ Hwy	Materials from Stockton	354	195.3	1.1	183	0.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 19	Truck Flatbed 4 T Highway	Materials from Stockton	354	330.0	1.1	309	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 19	Truck Flatbed 10 T Highway	Materials from Stockton	354	999.9	1.1	937	2.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 19	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	354	120.2	1.1	113	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 19	Truck Flatbed 4 T Highway	Materials from Stockton	354	108.8	1.1	102	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 19	Truck, FlatBed, 10T, Hwy	Rebar from Livermore	354	51.0	0.6	50	0.3	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern - 19	Truck/ End Dump/ 55-20ty/ Hwy	Flyash from Vernalis	354	41.4	0.7	19	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 19	Truck/ End Dump/ 55-13ty/ Hwy	Cement, Aggregate, and Sand from Stockton	354	1894.5	1.1	1776	5.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 20	Truck Flatbed 10 T Highway	Materials from Stockton	754	1941.6	1.1	1820	2.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 20	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	754	740.0	1.1	694	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 20	Truck/ End Dump/ 55-20ty/ Hwy	Flyash from Vernalis	754	30.5	0.7	44	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 20	Truck/ End Dump/ 55-13ty/ Hwy	Cement, Aggregate, and Sand from Stockton	754	1993.9	1.1	1807	1.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 21	Pickup 1/2T 2 WD	Materials from Stockton	984	3333.3	1.1	3125	3.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 22	Pickup 1/2T 2 WD	Materials from Stockton	246	2200.0	1.1	2063	8.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 22	Truck Flatbed 4 T Highway	Materials from Stockton	246	2100.0	1.1	1969	8.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 22	Truck Flatbed 10 T Highway	Materials from Stockton	246	100.0	1.1	94	0.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 22	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	246	250.0	1.1	234	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 22	Truck/ End Dump/ 55-20ty/ Hwy	Flyash from Vernalis	246	18.3	0.7	26	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 22	Truck/ End Dump/ 55-13ty/ Hwy	Cement, Aggregate, and Sand from Stockton	246	837.1	1.1	785	3.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 22	Truck, FlatBed, 10T, Hwy	Rebar from Livermore	246	5.1	0.6	9	0.0	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern - 23	Pickup 1/2T 2 WD	Materials from Stockton	185	14561.4	1.1	13651	73.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 23	Pickup, 3/4T, 4wd	Materials from Stockton	185	208.8	1.1	196	1.1	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 23	Truck/ End Dump/ 55-20ty/ Hwy	Materials from Stockton	185	12621.1	1.1	11832	64	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 23	Truck/ End Dump/ 55-13ty/ Hwy	Materials from Stockton	185	302.4	1.1	284	1.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 23	Truck, FlatBed, 10T, Hwy	Materials from Stockton	185	39.6	1.1	37	0.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 23	Truck/ End Dump/ 55-20ty/ Hwy	Base Rock from Vernalis	185	1579.2	0.7	2256	12	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 23	Truck Flatbed 4 T Highway	Cone, Grader, and Excavator to Stockton	1	3.2	1.1	3	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 24	Truck/ End Dump/ 55-13ty/ Hwy	Materials from Stockton	181	1600.0	1.1	1500	8.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 24	Truck/ End Dump/ 55-13ty/ Hwy	Base Rock from Vernalis	181	581.8	0.7	834	4.6	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 24	Truck, FlatBed, 10T, Hwy	Materials from Stockton	181	60.8	1.1	57	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 25	Pickup 1/2T 2 WD	Materials from Stockton	445	21303.1	1.1	19972	44.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 25	Pickup, 3/4T, 4wd	Materials from Stockton	445	279.7	1.1	262	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 26	Pickup 1/2T 2 WD	Materials from Stockton	1355	28604.8	1.1	26817	19.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 26	Truck Flatbed 4 T Highway	Materials from Stockton	1355	20738.5	1.1	19442	14.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 26	Truck, FlatBed, 10T, Hwy	Materials from Stockton	1355	165.3	1.1	155	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 27	Pickup 1/2T 2 WD	Materials from Stockton	1748	8574.4	1.1	8039	4.6	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 27	Truck/ End Dump/ 55-20ty/ Hwy	Base Rock from Vernalis	1748	650.3	0.7	909	1	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 28	Truck, FlatBed, 10T, Hwy	Materials from Stockton	2176	8301.9	1.1	7783	3.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 28	Truck, Flatbed, 4T, Hwy	Materials from Stockton	2176	13070.0	1.1	12253	5.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 29	Pickup 1/2T 2 WD	Materials from Stockton	275	3458.6	1.1	3242	11.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 29	Pickup, 3/4T, 4wd	Materials from Stockton	275	2091.1	1.1	1962	7.1	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 29	Truck, 400hp & End Dump Tr, 26ty, 36T	Materials from Stockton	275	3457.4	1.1	3194	11.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 29	Truck, End Dump, 55-13ty, Hwy	Materials from Stockton	275	8787.6	1.1	8238	30	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 29	Truck, FlatBed, 10T, Hwy	Materials from Stockton	275	4154.4	1.1	3895	14.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 29	Truck, Flatbed, 4T, Hwy	Materials from Stockton	275	167.0	1.1	157	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 29	Truck, FlatBed, 10T, Hwy	Materials from Stockton	275	2302.9	1.1	2159	7.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 29	Truck/ End Dump/ 55-13ty/ Hwy	Base Rock, Cement, Aggregate, and Sand from Stockton	275	14392.5	1.1	13493	49.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 30	Mechanics Truck	Materials from Stockton	185	1306.7	1.1	1225	7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 30	Pickup 1/2T 2 WD	Materials from Stockton	185	1186.9	1.1	1113	6.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 30	Pickup, 3/4T, 4wd	Materials from Stockton	185	173.9	1.1	161	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 30	Truck, FlatBed, 10T, Hwy	Materials from Stockton	185	246.7	1.1	231	1.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 30	Truck Flatbed 4 T Highway	Materials from Stockton	185	1306.7	1.1	1225	6.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 30	Truck/ End Dump/ 55-13ty/ Hwy	Gravel and Base Rock from Vernalis	185	996.3	1.1	934	5.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 30	Truck, FlatBed, 10T, Hwy	Steel and Rebar from Livermore	185	29.5	0.6	52	0.3	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern - 30	Truck, FlatBed, 10T, Hwy	Materials from Stockton	185	236.3	0.6	417	2.3	Southern Complex on Byron Tract to/from Stockton	17	34	Diesel

SF - Eastern - 31	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	522	401.9	1.1	377	0.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 31	Pickup 1/2T 2 WD	Materials from Stockton	522	799.4	1.1	749	1.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 31	Pickup 3/4T, 4wd	Materials from Stockton	522	33.3	1.1	31	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 31	Truck Flatbed 4 T Highway	Materials from Stockton	522	7904.1	1.1	7410	14.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 31	Truck, Flatbed, 30T, Hwy	Materials from Stockton	522	541.9	1.1	508	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 31	Truck, Flatbed, 30T, Hwy	Materials from Stockton	522	77.9	1.1	73	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 31	Truck, Flatbed, 30T, Hwy	Rebar from Livermore	522	123.0	0.6	217	0.4	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern - 31	Truck Flatbed 4 T Highway	Loader from and to Stockton	2	2.1	1.1	2	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 32	Truck Flatbed 4 T Highway	Materials from Stockton	137	734.0	1.1	688	5.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 32	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	137	222.2	1.1	208	1.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 32	Truck Flatbed 4 T Highway	Materials from Stockton	137	227.2	1.1	213	1.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 32	Truck Flatbed 4 T Highway	Crane and Forklift from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 32	Truck Flatbed 4 T Highway	Crane to Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 33	Mechanics Truck	Materials from Stockton	263	5680.0	1.1	5325	20	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 33	Pickup 1/2T 2 WD	Materials from Stockton	263	5680.0	1.1	5325	20.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 33	Truck Flatbed 4 T Highway	Materials from Stockton	263	5680.0	1.1	5325	20.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 34	Truck, Flatbed, 30T, Hwy	Materials from Stockton	771	16.0	1.1	15	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 34	Truck End Dump/ 35-20cy Hwy	Materials from Stockton	771	3090.0	1.1	2897	3.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 34	Truck End Dump/ 35-20cy Hwy	Materials from Stockton	771	590.9	1.1	554	0.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 34	Truck End Dump/ 35-13cy Hwy	Cement, Aggregate, and Sand from Stockton	771	6577.9	1.1	6367	8.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 34	Truck, Flatbed, 30T, Hwy	Steel and Rebar from Livermore	771	250.5	0.6	442	0.6	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern - 34	Truck End Dump/ 35-20cy Hwy	Gravel and Flyash from Vernalis	771	1086.4	0.7	1552	2.0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 34	Truck Flatbed 4 T Highway	Roller to Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 35	Truck & Bottom Dump, 21cy, 30T	Dumper	90	2179.5	1.1	2043	22.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 35	Truck End Dump/ 35-20cy Hwy	Materials from Stockton	90	844.8	1.1	792	8.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 35	Truck End Dump/ 35-13cy Hwy	Cement, Aggregate, and Sand from Stockton	90	1852.1	1.1	1736	19.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 35	Truck, Flatbed, 30T, Hwy	Steel and Rebar from Livermore	90	95.8	0.6	169	1.9	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern - 35	Truck End Dump/ 35-20cy Hwy	Flyash from Vernalis	90	40.5	0.7	58	0.6	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 35	Truck Flatbed 4 T Highway	Crane to Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 36	Tunnel Utility Truck	Highway Truck	343	5103.9	1.1	4785	14.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 36	Truck, Flatbed, 30T, Hwy	Materials from Stockton	343	2590.0	1.1	2428	7.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 36	Truck Flatbed 4 T Highway	Materials from Stockton	343	28465.7	1.1	26887	77.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 36	Truck End Dump/ 35-20cy Hwy	Materials from Stockton	343	154.7	1.1	145	0.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 37	Tunnel Utility Truck	Highway Truck	36	174	1.1	163	4.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 37	Truck End Dump/ 35-20cy Hwy	Materials from Stockton	36	77.9	1.1	73	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 37	Truck End Dump/ 35-13cy Hwy	Cement, Aggregate, and Sand from Stockton	36	108.8	1.1	103	2.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 37	Truck, Flatbed, 30T, Hwy	Rebar from Livermore	36	4.0	0.6	7	0.2	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern - 37	Truck End Dump/ 35-20cy Hwy	Flyash from Vernalis	36	2.5	0.7	4	0.1	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 37	Truck Flatbed 4 T Highway	Dozer and Loader to Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 38	Mechanics Truck	Materials from Stockton	952	2133.0	1.1	2000	2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 38	Truck End Dump/ 35-20cy Hwy	Materials from Stockton	952	3090.0	1.1	2897	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 38	Pickup 3/4T, 4wd	Materials from Stockton	952	2133.0	1.1	2000	2.1	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 38	Truck, Flatbed, 30T, Hwy	Materials from Stockton	952	16.0	1.1	15	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 38	Truck, Flatbed, 4T, Hwy	Materials from Stockton	952	2133.0	1.1	2000	2.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 39	Truck End Dump/ 35-20cy Hwy	Materials from Stockton	277	2185.5	1.1	2049	7.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 39	Truck End Dump/ 35-20cy Hwy	Materials from Stockton	277	444.8	1.1	417	1.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 39	Truck End Dump/ 35-13cy Hwy	Cement, Aggregate, and Sand from Stockton	277	485.3	1.1	455	1.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 39	Truck, Flatbed, 30T, Hwy	Steel and Rebar from Livermore	277	26.5	0.6	52	0.2	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern - 39	Truck End Dump/ 35-20cy Hwy	Base Rock, Gravel, and Flyash from Vernalis	277	664.4	0.7	949	3.4	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 39	Truck Flatbed 4 T Highway	Excavator and Loader from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 40	Tunnel Utility Truck	Highway Truck	418	30210.6	1.1	792	1.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 40	Truck, Flatbed, 30T, Hwy	Materials from Stockton	418	2504.0	1.1	2348	5.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 41	Tunnel Utility Truck	Highway Truck	38	174	1.1	163	4.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 41	Pickup 1/2T 2 WD	Materials from Stockton	38	4313.4	1.1	4248	111.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 41	Pickup 3/4T, 4wd	Materials from Stockton	38	242.0	1.1	227	6.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 41	Truck End Dump/ 35-13cy Hwy	Cement, Aggregate, and Sand from Stockton	38	656.9	1.1	616	16.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 41	Truck, Flatbed, 30T, Hwy	Rebar from Livermore	38	21.5	0.6	38	1.0	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern - 41	Truck End Dump/ 35-20cy Hwy	Gravel and Flyash from Vernalis	38	456.8	0.7	653	17.2	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 41	Truck Flatbed 4 T Highway	Crane and Tractor to Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 42	Mechanics Truck	Materials from Stockton	2867	3547.0	1.1	3325	1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 42	Pickup 1/2T 2 WD	Materials from Stockton	2867	3547.0	1.1	3325	1.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 42	Truck, Flatbed, 30T, Hwy	Materials from Stockton	2867	400.0	1.1	375	0.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 42	Truck Flatbed 4 T Highway	Materials from Stockton	2867	3547.0	1.1	3325	1.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 42	Truck & Bottom Dump/ 21cy/ 30T	Materials from Stockton	2867	3852.0	1.1	3611	2	Bethany 98 to/from Stockton	32	64	Diesel Tier 4
SF - Eastern - 42	Truck End Dump/ 35-20cy Hwy	Materials from Stockton	2867	227.2	1.1	213	0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 42	Truck Flatbed 4 T Highway	Loader and three Cranes to Stockton	1	4.3	1.1	4	4.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 43	Pickup 1/2T 2 WD	Materials from Stockton	240	3547.0	1.1	3325	13.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 43	Truck, Flatbed, 30T, Hwy	Materials from Stockton	240	16.0	1.1	15	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 43	Truck, 400hp & End Dump Tr, 28cy, 36T	Materials from Stockton	240	3492.0	1.1	3274	13.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 43	Truck End Dump/ 35-20cy Hwy	Gravel, Ballast, and Sub-ballast from Vernalis	240	11739.0	0.7	16770	7.0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 43	Truck Flatbed 4 T Highway	Two Excavators, two Loaders, Roller, Dozer, and Scraper to Stockton	1	7.5	1.1	7	7.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 43	Truck Flatbed 4 T Highway	Excavator from and to Stockton	2	2.1	1.1	2	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 44	Truck, Flatbed, 30T, Hwy	Materials from Stockton	93	1518.0	1.1	1423	15.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 44	Truck End Dump/ 35-20cy Hwy	Materials from Stockton	93	1473.1	1.1	1381	14.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 44	Truck End Dump/ 35-13cy Hwy	Cement, Aggregate, and Sand from Stockton	93	7426.7	1.1	6963	74.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 44	Truck End Dump/ 35-20cy Hwy	Flyash from Vernalis	93	162.3	0.7	232	2.5	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 44	Truck Flatbed 4 T Highway	Crane to Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 45	Truck, Flatbed, 30T, Hwy	Materials from Stockton	166	4367.6	1.1	4095	24.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel

SF - Eastern - 45	Truck Flatbed 4 T Highway	Two Loaders, Grader, Doser, Skid Loader, and Roller to Stockton	1	6.4	1.1	6	6.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 46	Truck End Dump 56-20cy Hwy	Materials from Stockton	446	3513.0	1.1	3293	7.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 46	Truck Flatbed, 10T, Hwy	Materials from Stockton	446	102.0	1.1	96	0.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 46	Truck Flatbed 4 T Highway	Two Cranes and a Forklift to Stockton	1	3.2	1.1	3	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 47	Truck End Dump 56-20cy Hwy	Materials from Stockton	60	213.3	1.1	200	3.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 47	Truck Flatbed 4 T Highway	Excavator, Tractor, Grader, Scraper, Loader, and two Dozers to Stockton	1	7.5	1.1	7	7.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 48	Truck Flatbed, 10T, Hwy	Materials from Stockton	2113	157802.0	1.1	129189	61.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 48	Truck Flatbed 4 T Highway	Lift, two Rollers, Paver, Excavator, and Loader to Stockton	1	6.4	1.1	6	6.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 49	Tunnel Utility Truck	Highway Truck	71	800	1.1	750	50.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 49	Truck End Dump 50-13cy Hwy	Cement, Aggregate, and Sand from Stockton	71	656.9	1.1	616	8.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 49	Truck Flatbed, 10T, Hwy	Rubber from Livermore	71	21.5	0.6	38	0.5	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern - 49	Truck End Dump 56-20cy Hwy	Gravel and Flyash from Vernalis	71	456.8	0.7	653	9.2	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 49	Truck Flatbed 4 T Highway	Crane and Tractor to Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 50	Pickup 1/2T 2 WD	Materials from Stockton	41	400.0	1.1	375	9.1	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 51	Pickup 1/2T 2 WD	Materials from Stockton	48	400.0	1.1	375	8.7	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 52	Pickup 1/2T 2 WD	Materials from Stockton	2576	17586.2	1.1	16498	6.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 55	Pickup 1/2T 2 WD	Materials from Stockton	240	200.0	1.1	188	0.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 55	Truck End Dump, 10-13cy Hwy	Materials from Stockton	240	4000.0	1.1	3750	16	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 55	Truck Flatbed, 10T, Hwy	Materials from Stockton	240	113.3	0.6	200	0.8	Southern Complex on Byron Tract to/from Stockton	17	34	Diesel

Vehicle Use on Upgraded/DIST Surface (no access roads at park and ride lots) - ... on the Construction Site										Miles On-Site	
SF - Eastern - 3	CAT 770, Articulated End dump	Dumper	252	231.1	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		1166	Diesel or Hybrid
SF - Eastern - 3	Articulated Rear Dump 22 CY/CAT 730	Dumper	252	2181.4	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		10907	Diesel or Hybrid
SF - Eastern - 3	Truck & Bottom Dump, 21cy, 30T	Dumper	252	2408.9	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		12045	Diesel
SF - Eastern - 4	CAT 770, Articulated End dump	Dumper	228	101.7	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		509	Diesel or Hybrid
SF - Eastern - 4	Articulated Rear Dump 22 CY/CAT 735	Dumper	228	1069.4	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		5347	Diesel or Hybrid
SF - Eastern - 5	Cat 770, S19HP	Dumper	21		not applicable	not applicable	not applicable	on-site assume 5 miles/hour		0	Diesel or Hybrid
SF - Eastern - 5	Articulated Rear Dump 22 CY/CAT 730	Dumper	21		not applicable	not applicable	not applicable	on-site assume 5 miles/hour		0	Diesel or Hybrid
SF - Eastern - 5	Articulated Rear Dump 22 CY/CAT 735	Dumper	21		not applicable	not applicable	not applicable	on-site assume 5 miles/hour		0	Diesel or Hybrid
SF - Eastern - 5	Trailer, Flatbed, 40T	Off-Highway Truck	21		not applicable	not applicable	not applicable	on-site assume 5 miles/hour		0	Diesel
SF - Eastern - 5	Truck & Bottom Dump, 21cy, 30T	Dumper	21		not applicable	not applicable	not applicable	on-site assume 5 miles/hour		0	Diesel
SF - Eastern - 5	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	21		not applicable	not applicable	not applicable	on-site assume 5 miles/hour		0	Diesel
SF - Eastern - 9	Articulated Rear Dump 22 CY/CAT 730	Dumper	225	166.7	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		834	Diesel or Hybrid
SF - Eastern - 9	Trailer, Lowboy, 50T	Off-Highway Truck	225	40.0	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		200	Diesel
SF - Eastern - 9	CAT735, 10T, Articulated End Dump	Dumper	225	75	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		375	Diesel or Hybrid
SF - Eastern - 9	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	225		not applicable	not applicable	not applicable	on-site assume 5 miles/hour		0	Diesel
SF - Eastern - 10	CAT735, 10T, Articulated End Dump	Dumper	85	75	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		375	Diesel or Hybrid
SF - Eastern - 10	Cat 770, S19HP	Dumper	85	74.2	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		0	Diesel or Hybrid
SF - Eastern - 10	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	85		not applicable	not applicable	not applicable	on-site assume 5 miles/hour		0	Diesel
SF - Eastern - 11	Articulated Rear Dump 22 CY/CAT 730	Dumper	32882	34251.7	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		171259	Diesel or Hybrid
SF - Eastern - 11	CAT 770 Dumper	Dumper	200	209	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		1044	Diesel or Hybrid
SF - Eastern - 11	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	296		not applicable	not applicable	not applicable	on-site assume 5 miles/hour		0	Diesel
SF - Eastern - 12	Trailer, Lowboy, 50T	Off-Highway Truck	731	9215.5	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		46078	Diesel
SF - Eastern - 12	CAT 740 40T, Articulated End dump	Dumper	731	2642.9	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		13215	Diesel or Hybrid
SF - Eastern - 12	Therma Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	731		not applicable	not applicable	not applicable	on-site assume 5 miles/hour		0	Diesel
SF - Eastern - 13	Trailer, Lowboy, 50T	Off-Highway Truck	876	1700.2	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		8501	Diesel
SF - Eastern - 13	CAT 770 Dumper	Dumper	876	34	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		171	Diesel or Hybrid
SF - Eastern - 13	Articulated Rear Dump 22 CY/CAT 730	Dumper	876	7795.6	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		38978	Diesel or Hybrid
SF - Eastern - 13	CAT 740 40T, Articulated End dump	Dumper	876	245.3	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		1227	Diesel or Hybrid
SF - Eastern - 13	Articulated Rear Dump 22 CY/CAT 735	Dumper	876	1027.1	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		5136	Diesel or Hybrid
SF - Eastern - 13	CAT773, S1, 3T, End Dump	Dumper	876	1586.1	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		7931	Diesel or Hybrid
SF - Eastern - 13	Therma Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	876		not applicable	not applicable	not applicable	on-site assume 5 miles/hour		0	Diesel
SF - Eastern - 14	CAT 740 40T, Articulated End dump	Dumper	671	2486.3	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		12432	Diesel or Hybrid
SF - Eastern - 14	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	671		not applicable	not applicable	not applicable	on-site assume 5 miles/hour		0	Diesel
SF - Eastern - 15A	Articulated Rear Dump 22 CY/CAT 730	Dumper	241		not applicable	not applicable	not applicable	on-site assume 5 miles/hour		0	Diesel or Hybrid
SF - Eastern - 15A	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	241		not applicable	not applicable	not applicable	on-site assume 5 miles/hour		0	Diesel
SF - Eastern - 15B	Articulated Rear Dump 22 CY/CAT 730	Dumper	366	616.4	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		3082	Diesel or Hybrid
SF - Eastern - 15B	Articulated Rear Dump 22 CY/CAT 735	Dumper	366	7411.1	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		37056	Diesel or Hybrid
SF - Eastern - 16	Articulated Rear Dump 22 CY/CAT 730	Dumper	163	150.6	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		753	Diesel or Hybrid
SF - Eastern - 16	Therma Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	163		not applicable	not applicable	not applicable	on-site assume 5 miles/hour		0	Diesel
SF - Eastern - 17	Articulated Rear Dump 22 CY/CAT 730	Dumper	34	22.7	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		114	Diesel or Hybrid
SF - Eastern - 18	Articulated Rear Dump 22 CY/CAT 730	Dumper	31	50.4	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		252	Diesel or Hybrid
SF - Eastern - 18	Concrete Pump Truck	Off-Highway Truck	31		not applicable	not applicable	not applicable	on-site assume 5 miles/hour		0	Diesel
SF - Eastern - 19	Articulated Rear Dump 22 CY/CAT 730	Dumper	354	280.5	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		1403	Diesel or Hybrid
SF - Eastern - 19	CAT 740 40T, Articulated End dump	Dumper	354	13.2	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		66	Diesel or Hybrid
SF - Eastern - 19	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	354		not applicable	not applicable	not applicable	on-site assume 5 miles/hour		0	Diesel

5F - Eastern - 19	Articulated Rear Dump 22 CY/CAT 730	Dumper to move soil on-site	354		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
5F - Eastern - 20	Thieme Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	754		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
5F - Eastern - 22	Trailer, Lowboy, 50T	Off-Highway Truck	246	250.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1250	Diesel
5F - Eastern - 22	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	246		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
5F - Eastern - 23	Articulated Rear Dump 22 CY/CAT 730	Dumper	185	5595.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	27877	Diesel or Hybrid
5F - Eastern - 23	Articulated Rear Dump 22 CY/CAT 735	Dumper	185	484.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2422	Diesel or Hybrid
5F - Eastern - 23	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	185		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
5F - Eastern - 23	Articulated Rear Dump 22 CY/CAT 730	Dumper to move soil on-site	671		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
5F - Eastern - 24	Thieme Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	181		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
5F - Central - 25	Articulated Rear Dump 22 CY/CAT 735	Dumper	445	83046.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	415230	Diesel
5F - Eastern - 26	CAT 770 Dump	Dumper	1355	11203	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	56814	Diesel or Hybrid
5F - Eastern - 26	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	1355		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
5F - Eastern - 27	CAT 760, 41.6T End Dump	Dumper	1748	34287.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
5F - Eastern - 28	Cat 770, 51DHP	Dumper	2176		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
5F - Eastern - 28	Cat 745 40T, Articulated End Dump	Dumper	2176		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
5F - Eastern - 29	CAT735, 35T, Articulated End Dump	Dumper	275	8194	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	40872	Diesel or Hybrid
5F - Eastern - 29	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	275		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
5F - Eastern - 30	Cat 770, 51DHP	Dumper	185	134.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	674	Diesel or Hybrid
5F - Eastern - 30	Articulated Rear Dump 22 CY/CAT 730	Dumper	185	3081.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	15406	Diesel or Hybrid
5F - Eastern - 30	CAT735, 35T, Articulated End Dump	Dumper	185	287	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1435	Diesel or Hybrid
5F - Eastern - 30	Trailer, Lowboy, 50T	Off-Highway Truck	185	550.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2750	Diesel
5F - Eastern - 30	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	185		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
5F - Eastern - 31	Trailer, Lowboy, 50T	Off-Highway Truck	522	401.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2010	Diesel
5F - Eastern - 31	Articulated Rear Dump 22 CY/CAT 730	Dumper	522	13991.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	69956	Diesel or Hybrid
5F - Eastern - 31	Cat 770, 51DHP	Dumper	522	205.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1027	Diesel or Hybrid
5F - Eastern - 31	CAT 740 40T, Articulated End dump	Dumper	522	610.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3050	Diesel or Hybrid
5F - Eastern - 31	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	522		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
5F - Eastern - 32	Trailer, Lowboy, 50T	Off-Highway Truck	137	222.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1111	Diesel
5F - Eastern - 32	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	137		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
5F - Eastern - 34	CAT 740 40T, Articulated End dump	Dumper	771	639.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3195	Diesel or Hybrid
5F - Eastern - 34	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	771		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
5F - Eastern - 35	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	90		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
5F - Eastern - 37	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	36		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
5F - Eastern - 37	Trailer, Lowboy, 50T	Off-Highway Truck	36		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
5F - Eastern - 38	Articulated Rear Dump 22 CY/CAT 730	Dumper	952	639.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3195	Diesel or Hybrid
5F - Eastern - 38	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	952	1278.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	6390	Diesel
5F - Eastern - 39	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	277		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
5F - Eastern - 41	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	38		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
5F - Eastern - 43	Articulated Rear Dump 22 CY/CAT 730	Dumper	240	1355.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	6777	Diesel or Hybrid
5F - Eastern - 43	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	240	1628.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	8140	Diesel
5F - Eastern - 44	Trailer, Lowboy, 120T	Off-Highway Truck	93		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
5F - Eastern - 45	Cat 770, 51DHP	Dumper	166		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
5F - Eastern - 45	CAT 740 40T, Articulated End dump	Dumper	166		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
5F - Eastern - 45	Trailer, Flatbed, 40T	Off-Highway Truck	166		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
5F - Eastern - 45	Truck, End Dump, 5D-13cy, Hwy	Dumper	166		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
5F - Eastern - 46	Articulated Rear Dump 22 CY/CAT 730	Dumper	446	1355.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	6777	Diesel or Hybrid
5F - Eastern - 46	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	446	1364.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	6830	Diesel
5F - Eastern - 55	CAT 740 40T, Articulated End dump	Dumper	240	200.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1000	Diesel or Hybrid

**Employees Required to Southern Complex on Byron Tract - Eastern
Option 2**

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
SF - Eastern - 1	Carpenter Apprentice	8.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 1	Carpenter Foreman	8.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 1	Carpenter Journeyman	17.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 1	Electrical Foreman	4.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 1	Electrical Journeyman	17.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 1	Iron Worker Journeyman	17.8				32
SF - Eastern - 1	Rebar/Struct		10		Stockton to/from Southern Complex on Byron Tract	
SF - Eastern - 1	Laborer G2 General	3217.8	10		Stockton to/from Southern Complex on Byron Tract	32
						32
SF - Eastern - 1	Operator G3a Cranes 45 t and under	328.8	10		Stockton to/from Southern Complex on Byron Tract	
SF - Eastern - 1	Teamster G1 Hwy ED<6cy, Flatbed	799.7	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 1	Teamster G3 Boom Truck	4.4	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-1						
SF - Eastern - 2	Carpenter Apprentice	44.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Carpenter Foreman	44.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Carpenter Journeyman	88.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Electrical Foreman	22.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Electrician Journeyman	88.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Iron Worker Journeyman Rebar/Stru	88.89	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Laborer G2 General	16088.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Operator G3a Cranes 45 t and under	1644.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Teamster G1 Hwy ED<6cy, Flatbed	4000.28	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Teamster G3 Boom Truck	22.22	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-2						
SF - Eastern - 3	Laborer G1 Pipe layers	757.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Laborer G1 Power Tamper	378.7	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Laborer G2 General	4903.5	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Laborer G3 Flagman	1240.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Operator G3 Loader >4cy	328.5	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Operator G2a Cranes 45 to 100 t	2423.76	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	OPERATING ENGINEER FOREMAN	2480	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Operator G2 Excavator 3.5 to 7.0	363.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Operator G2 Finish Blade	853.3	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Operator G3 BH-Loader>3/4cy	2613.1	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Operator G4 Dozer & Push Cat	1799.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Operator G4 Grade Check	1211.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Operator G5 Compactor w-blade	1086.3	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Teamster G2 Hwy ED 6-8cy, Water	1604.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Teamster G3 ED 8-24cy, Water>7	4895.3	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-3						
			150			
SF - Eastern - 4	Laborer Foreman	30.44	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Laborer G1 Pipe layers	401.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Laborer G3 Bridge labor	5696.96	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Laborer G1 Power Tamper	140	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Laborer G2 General	1412.5	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Laborer G3 Flagman	1090.5	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	OPERATING ENGINEER FOREMAN	2653.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G2 Finish Blade	646.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G1a Cranes>100 t	1424.24	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G2 Excavator 3.5 to 7.0 cy	267.34	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G2a Cranes 45 to 100 t	1424.24	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G3 BH-Loader>3/4cy	407.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G4 Dozer & Push Cat	470.7	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G4 Grade Check	857.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G4 Loader <4.1cy	70	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G4a Boom truck<15 ton	35.14	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G5 Asphalt Roller	623.78	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G5 Compactor w-blade	203.35	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G5 Paver	311.89	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G7 Roller, Compactor	545.26	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G8 Generator	109.05	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Pile Driver Wharf and Dock	5696.96	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Teamster G1 Hwy ED<6cy, Flatbed	1469.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Teamster G2 Hwy ED 6-8cy, Water<7	1123.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Teamster G3 Boom Truck	35.14	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Teamster G3 ED 8-24cy, Water>7mg;	1069.4	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-4						
SF - Eastern - 5	Laborer G2 General	320	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Laborer G3 Flagman	320	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	OPERATING ENGINEER FOREMAN	264.1	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Operator G2 Finish Blade	208.3	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Operator G3 Loader >4cy	104.1	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Operator G4 Dozer & Push Cat	320	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Operator G4 Grade Check	104.1	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Operator G4 Loader <4.1cy	264.1	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Operator G4 Trim Machine	80	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Operator G5 Compactor w-blade	104.1	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Teamster G2 Hwy ED 6-8cy, Water<7	160	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Teamster G3 ED 8-24cy, Water>7mg;	528.3	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-5						
		0	120			
SF - Eastern - 6	Carpenter Apprentice	790.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Carpenter Foreman	790.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Carpenter Journeyman	1581.9	10		Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 6	Electrical Foreman	197.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Electrician Journeyman	790.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Iron Worker Journeyman Rebar/Stru	1581.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Laborer G2 General	49041.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	OPERATING ENGINEER FOREMAN	15820	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Operator G2 Plant Operator	31639.99	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Operator G3 BH-Loader>3/4cy	15819.99	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Operator G3a Cranes 45 t and under	15819.99	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Operator G4 Grade Check	15819.99	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Operator G4 Hvy Duty Mechanic	15819.99	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Operator G4a Boom truck<15 ton	790.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Teamster G1 Hwy ED<6cy, Flatbed	15820	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Teamster G2 Hwy ED 6-8cy, Water<7	15820	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Teamster G3 Boom Truck	395.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-6					
SF - Eastern - 7	Carpenter Apprentice	2924.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Carpenter Foreman	2924.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Carpenter Journeyman	5707.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Electrical Foreman	1121.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Electrician Journeyman	3663.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Iron Worker Journeyman Rebar/Stru	5848.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Laborer Foreman	8600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Laborer G1 Pipe layers	1600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Laborer G2 General	40328	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	OPERATING ENGINEER FOREMAN	80	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G2 Finish Blade	80	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G2a Cranes 45 to 100 t	1634.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G4 BH-Loader <.76cy	1600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G4 Dozer & Push Cat	80	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G4 Grade Check	80	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G4 Loader <4.1cy	7800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G4 Scraper	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G4a Boom truck<15 ton	1501.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G6 Tractor	3900	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G7 Roller, Compactor	80	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Teamster G2 Hwy ED 6-8cy, Water<7	880	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Teamster G3 Boom Truck	1462.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Teamster G1 Hwy ED<6cy, Flatbed	15600	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-7					
SF - Eastern - 8	Carpenter Journeyman	13265.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Electrician Journeyman	13265.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Laborer Foreman	7164.18	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Laborer G4 Clean-up	14328.36	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Operator G1a Cranes>100 t	41600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Operator G2 Finish Blade	1432.84	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Operator G3 BH-Loader>3/4cy	7164.18	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Operator G4 Hvy Duty Mechanic	10400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Operator G5 Compactor w-blade	1432.84	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Operator G5 Concrete Pump	5200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Operator G7 Oiler	31200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Teamster G1 Hwy ED<6cy, Flatbed	17564.2	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-8					
SF - Eastern - 9	Carpenter Apprentice	1000	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Carpenter Foreman	1276.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Carpenter Journeyman	3954.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Cement Mason Foreman	120.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Cement Mason Journeyman	628.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Electrical Foreman	1000	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Electrician Journeyman	5066.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Iron Worker Foreman	360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Iron Worker Journeyman Rebar/Stru	8519.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Laborer Foreman	693.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Laborer G1 Pipe layers	1066.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Laborer G1 Vibrator, Green Cutter	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Laborer G2 Concrete Laborer	300	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Laborer G2 General	4823.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Laborer G2 High Pressure Nozzlemar	60	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	OPERATING ENGINEER FOREMAN	108.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G1a Cranes>100 t	40	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G2 Excavator 3.5 to 7.0 cy	25	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G2 Finish Blade	6.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G2a Cranes 45 to 100 t	190	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G3 BH-Loader>3/4cy	533.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G3 Loader >4cy	656.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G3a Cranes 45 t and under	1000	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G4 Dozer & Push Cat	108.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G4 Grade Check	108.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G4 Hvy Duty Mechanic	75	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G4a Boom truck<15 ton	1000	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G5 Compactor w-blade	83.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G7 Oiler	40	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Pile Driver Foreman	40	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Pile Driver Journeyman	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Teamster G1 Hwy ED<6cy, Flatbed	266.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Teamster G2 Hwy ED 6-8cy, Water<7	314.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Teamster G3 Boom Truck	1000	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Teamster G3 ED 8-24cy, Water>7mg;	1750	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Teamster G4 ED 25-65 Cy	241.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Teamster G4 Tractor, Lowbed/Trailer	40	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-9			370		
SF - Eastern - 10	Carpenter Foreman	320.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Compactor Journeyman	2105	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Cement Mason Foreman	400.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Cement Mason Journeyman	2535.9	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 10			10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10			10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10			10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Laborer Foreman	115	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Laborer G1 Vibrator, Green Cutter	230	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Laborer G2 Concrete Laborer	345	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Iron Worker Journeyman Rebar/Stru	2173.39	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Iron Worker Foreman	310.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Laborer G2 General	2191.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	OPERATING ENGINEER FOREMAN	74.17	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Operator G2 Finish Blade	74.17	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Operator G2a Cranes 45 to 100 t	325	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Operator G3 Loader >4cy	74.17	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Operator G4 Hvy Duty Mechanic	81.25	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Operator G5 Compactor w-blade	74.17	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Teamster G1 Hwy ED<6cy, Flatbed	81.25	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Teamster G3 ED 8-24cy, Water>7mg;	635.8	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-10					
SF - Eastern - 11	Carpenter Apprentice	927.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Carpenter Foreman	927.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Carpenter Journeyman	1854.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Electrical Foreman	231.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Electrician Journeyman	927.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Iron Worker Foreman	8565.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Iron Worker Journeyman Rebar/Stru	14489.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Laborer Foreman	8564	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Laborer G2 Concrete Laborer	51383.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Laborer G2 General	74565	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	OPERATING ENGINEER FOREMAN	16098.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G1a Cranes>100 t	24454.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G2 Finish Blade	417.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G2 Micro Tunnel	17126.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G2a Cranes 45 to 100 t	17126.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G3 BH-Loader>3/4cy	8562.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G3 Loader >4cy	8771.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G4 Dozer & Push Cat	8562.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G4 Grade Check	8771.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G4 Hvy Duty Mechanic	8562.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G4 Loader <4.1cy	208.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G4a Boom truck<15 ton	927.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G5 Compactor w-blade	208.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G5 Drilling & Boring Mach	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G7 Oiler	41781.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Teamster G1 Hwy ED<6cy, Flatbed	8562.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Teamster G3 Boom Truck	463.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Teamster G3 ED 8-24cy, Water>7mg;	34669.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Teamster G4 Water Tanker, Off Hwy	208.8	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-11					
SF - Eastern - 12	Carpenter Foreman	3565.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Carpenter Journeyman	23665.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Cement Mason Foreman	951.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Cement Mason Journeyman	3716.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Iron Worker Foreman	17222.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Iron Worker Journeyman Rebar/Stru	117287.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Laborer Foreman	8563.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Laborer G1 Vibrator, Green Cutter	2215.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Laborer G2 Concrete Laborer	13336.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Laborer G2 General	48789.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Laborer G2 High Pressure Nozzlelema	4675	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	OPERATING ENGINEER FOREMAN	4170.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G1a Cranes>100 t	16929.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G2 Excavator 3.5 to 7.0 cy	3384.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G2 Finish Blade	135.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G2 Plant Operator	160.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G2a Cranes 45 to 100 t	7537.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G3 Loader >4cy	271.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G3a Cranes 45 t and under	376.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G4 Dozer & Push Cat	1443	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G4 Hvy Duty Mechanic	831.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G5 Compactor w-blade	271.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G6 Screedman	215.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G6 Tractor	271.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G7 Oiler	16929.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G8a Skidsteer <Bobcat 743	277.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Teamster G2 Hwy ED 6-8cy, Water<7	345.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Teamster G3 ED 8-24cy, Water>7mg;	14262.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Teamster G4 ED 25-65 Cy	9671.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Teamster G4 Tractor, Lowbed/Trailer	9215.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-12					
SF - Eastern - 13	Carpenter Apprentice	222	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Carpenter Foreman	6400.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Carpenter Journeyman	30818.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Cement Mason Foreman	729.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Cement Mason Journeyman	2875.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Electrical Foreman	1494.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Electrical Lineman	1440	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Electrician Journeyman	217	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Iron Worker Foreman	7277	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Iron Worker Journeyman Rebar/Stru	52723.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Iron Worker-Rigger	509.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Laborer Foreman	5394.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Laborer G1 Vibrator, Green Cutter	2023.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Laborer G2 Concrete Laborer	17772.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Laborer G2 General	48301.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Laborer G2 High Pressure Nozzlelema	793.4	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 13	Laborer G3 Flagman	479.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Millwright	5760	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	OPERATING ENGINEER FOREMAN	4877.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G1a Cranes>100 t	12282.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G2 Excavator 3.5 to 7.0 cy	301	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G2 Finish Blade	159.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G2 Micro Tunnel	3899	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G2a Cranes 45 to 100 t	8328.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G3 BH-Loader>3/4cy	1948.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G3 Loader >4cy	2044.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G4 Dozer & Push Cat	2514.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G4 Grade Check	2103	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G4 Hvy Duty Mechanic	2356.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G4 Loader <4.1cy	34.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G4a Boom truck<15 ton	217	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G5 Compactor w-blade	95.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G6 Screedman	171.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G6 Tractor	61.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G7 Oiler	18130.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G8a Skidsteer <Bobcat 743	90.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Pipefitter Foreman	1440	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Pipefitter Journeyman	1440	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Teamster G1 Hwy ED<6cy, Flatbed	2924.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Teamster G2 Hwy ED 6-8cy, Water<7	165.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Teamster G3 Boom Truck	108.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Teamster G3 ED 8-24cy, Water>7mg;	10899.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Teamster G4 ED 25-65 Cy	2790.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Teamster G4 Tractor, Lowbed/Trailer	1700.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Teamster G4 Water Tanker, Off Hwy	34.2	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-13					
SF - Eastern - 14	Carpenter Apprentice	20	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Carpenter Foreman	9566	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Carpenter Journeyman	54854.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Cement Mason Foreman	2346.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Cement Mason Journeyman	11873.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Electrical Foreman	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Electrical Lineman	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Iron Worker Foreman	7746.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Iron Worker Journeyman Rebar/Stru	50209.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Iron Worker-Rigger	199.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Laborer Foreman	3183.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Laborer G1 Vibrator, Green Cutter	1794.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Laborer G2 Concrete Laborer	6735.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Laborer G2 General	39429.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Laborer G2 High Pressure Nozzlemar	851	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Millwright	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	OPERATING ENGINEER FOREMAN	959.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G1a Cranes>100 t	7689.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G2 Excavator 3.5 to 7.0 cy	1410.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G2 Finish Blade	254.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G2a Cranes 45 to 100 t	3717.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G3 Loader >4cy	508.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G4 Dozer & Push Cat	508.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G4 Hvy Duty Mechanic	788.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G4 Loader <4.1cy	508.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G5 Compactor w-blade	508.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G6 Screedman	346.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G6 Tractor	508.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G7 Oiler	8088.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G8a Skidsteer <Bobcat 743	1435.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Pile Driver Foreman	163	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Pile Driver Journeyman	977.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Pipefitter Foreman	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Pipefitter Journeyman	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Teamster G1 Hwy ED<6cy, Flatbed	204.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Teamster G2 Hwy ED 6-8cy, Water<7	1562.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Teamster G3 ED 8-24cy, Water>7mg;	3803.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Teamster G4 ED 25-65 Cy	2486.3	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-14					
SF - Eastern - 15A	Operator G1a Cranes>100 t	3120	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15A	Operator G3 BH-Loader>3/4cy	3120	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15A	Operator G7 Oiler	3120	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15A	Pipefitter Apprentice	12480	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15A	Pipefitter Foreman	3120	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15A	Pipefitter Journeyman	18720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15A	Teamster G4 Tractor, Lowbed/Trailer	1560	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-15					
SF - Eastern - 15B	Carpenter Apprentice	80	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Carpenter Foreman	2810.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Carpenter Journeyman	16707.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Cement Mason Foreman	585.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Cement Mason Journeyman	2682.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Electrical Foreman	20	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Electrician Journeyman	80	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Iron Worker Foreman	6555	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Iron Worker Journeyman Rebar/Stru	46387	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Laborer Foreman	2170.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Laborer G1 Vibrator, Green Cutter	1166.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Laborer G2 Concrete Laborer	4579.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Laborer G2 General	15111.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Laborer G2 High Pressure Nozzlemar	2292.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	OPERATING ENGINEER FOREMAN	2257.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G1a Cranes>100 t	3034.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G2 Excavator 3.5 to 7.0 cy	1244.38	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G2 Finish Blade	1103.9	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 15B	Operator G2 Micro Tunnel	180	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G2 Plant Operator	616.38	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G2a Cranes 45 to 100 t	1693.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G3 BH-Loader>3/4cy	616.38	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G3 Loader >4cy	1012.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G3a Cranes 45 t and under	616.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G4 Dozer & Push Cat	3105.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G4 Grade Check	1640.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G4 Hvy Duty Mechanic	224.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G4a Boom truck<15 ton	40	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G5 Compactor w-blade	396.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G6 Screedman	84.23	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G7 Oiler	3830.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G8a Skidsteer <Bobcat 743	260.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Teamster G1 Hwy ED<6cy, Flatbed	616.38	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Teamster G2 Hwy ED 6-8cy, Water<7	1188.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Teamster G3 Boom Truck	40	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Teamster G3 ED 8-24cy, Water>7mg;	2289.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Teamster G4 ED 25-65 Cy	8027.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Teamster G4 Water Tanker, Off Hwy	396.4	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-15					

SF - Eastern - 16	Carpenter Apprentice	1146.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Carpenter Foreman	1258.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Carpenter Journeyman	3166.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Cement Mason Foreman	141.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Cement Mason Journeyman	804.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Electrical Foreman	1146.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Electrician Journeyman	2293.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Iron Worker Foreman	258	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Iron Worker Journeyman Rebar/Stru	4099.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Laborer Foreman	110.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Laborer G1 Vibrator, Green Cutter	189.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Laborer G2 Concrete Laborer	569.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Laborer G2 General	3849.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Laborer G2 High Pressure Nozzlelema	15.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	OPERATING ENGINEER FOREMAN	75.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G1a Cranes>100 t	301.11	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G2a Cranes 45 to 100 t	301.11	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G3 Loader >4cy	75.28	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G3a Cranes 45 t and under	1146.67	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G4 Dozer & Push Cat	75.28	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G4 Grade Check	75.28	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G4 Hvy Duty Mechanic	75.28	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G4a Boom truck<15 ton	1146.67	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G5 Compactor w-blade	75.28	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G6 Screedman	94.86	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G7 Oiler	301.11	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Teamster G2 Hwy ED 6-8cy, Water<7	37.64	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Teamster G3 Boom Truck	1146.67	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Teamster G3 ED 8-24cy, Water>7mg;	284.56	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Teamster G4 ED 25-65 Cy	150.56	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-16					

SF - Eastern - 17	Carpenter Apprentice	1283.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Carpenter Foreman	1320.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Carpenter Journeyman	2827.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Cement Mason Foreman	31.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Cement Mason Journeyman	196.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Electrical Foreman	1283.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Electrician Journeyman	2566.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Iron Worker Foreman	88.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Iron Worker Journeyman Rebar/Stru	3186.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Laborer Foreman	35.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Laborer G1 Vibrator, Green Cutter	51	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Laborer G2 Concrete Laborer	76.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Laborer G2 General	2966.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Laborer G2 High Pressure Nozzlelema	10.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	OPERATING ENGINEER FOREMAN	11.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G1a Cranes>100 t	80.95	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G2a Cranes 45 to 100 t	80.95	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G3 Loader >4cy	11.33	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G3a Cranes 45 t and under	1283.33	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G4 Dozer & Push Cat	11.33	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G4 Grade Check	11.33	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G4 Hvy Duty Mechanic	20.24	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G4a Boom truck<15 ton	1283.33	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G5 Compactor w-blade	11.33	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G6 Screedman	25.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G7 Oiler	80.95	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Teamster G2 Hwy ED 6-8cy, Water<7	5.67	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Teamster G3 Boom Truck	1283.33	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Teamster G3 ED 8-24cy, Water>7mg;	38.25	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Teamster G4 ED 25-65 Cy	22.67	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-17					

SF - Eastern - 18	Carpenter Foreman	33.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Carpenter Journeyman	235.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Cement Mason Foreman	20.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Cement Mason Journeyman	117.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Electrical Foreman	0.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Electrician Journeyman	0.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Iron Worker Foreman	48	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Iron Worker Journeyman Rebar/Stru	336	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Laborer Foreman	19.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Laborer G1 Vibrator, Green Cutter	27.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Laborer G2 Concrete Laborer	41.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Laborer G2 General	246.7	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 18	Laborer G2 High Pressure Nozzlemar	5.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Millwright	0.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	OPERATING ENGINEER FOREMAN	25.18	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G1a Cranes>100 t	44.13	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G2a Cranes 45 to 100 t	44.13	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G3 Loader >4cy	25.18	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G3a Cranes 45 t and under	0.05	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G4 Dozer & Push Cat	25.18	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G4 Grade Check	25.18	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G4 Hvy Duty Mechanic	11.03	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G4a Boom truck<15 ton	0.05	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G5 Compactor w-blade	25.18	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G7 Oiler	44.13	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-18					
SF - Eastern - 19	Carpenter Apprentice	2290	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Carpenter Foreman	2540.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Carpenter Journeyman	6311	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Cement Mason Foreman	294	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Cement Mason Journeyman	2029.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Electrical Foreman	2441.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Electrician Lineman	151.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Electrician Journeyman	4580	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Iron Worker Foreman	693	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Iron Worker Journeyman Rebar/Stru	9430.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Laborer Foreman	2101.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Laborer G1 Pipe Layers	1562.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Laborer G1 Vibrator, Green Cutter	509	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Laborer G2 Concrete Laborer	2306.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Laborer G2 General	15777.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Laborer G2 High Pressure Nozzlemar	60	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Laborer G3 Flagman	60.11	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	OPERATING ENGINEER FOREMAN	240.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G1a Cranes>100 t	404	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G2 Excavator 3.5 to 7.0 cy	2.64	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G2 Finish Blade	62.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G3a Cranes 45 t and under	807.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G3 BH-Loader>3/4cy	1385.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G3 Loader >4cy	921.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G3a Cranes 45 t and under	2290	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G4 Dozer & Push Cat	145.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G4 Grade Check	180.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G4 Hvy Duty Mechanic	201.98	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G4 Loader <4.1cy	60.11	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G4a Boom truck<15 ton	2290	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G5 Asphalt Roller	74.72	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G5 Compactor w-blade	203	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G5 Curb & Gutter Conc Fini	260	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G5 Paver	37.36	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G6 Screedman	254.47	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G6 Tractor	0.53	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G7 Oiler	807.94	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G8 Pump	12.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G8a Skidsteer <Bobcat 743	1162	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Teamster G1 Hwy ED<6cy, Flatbed	1329.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Teamster G2 Hwy ED 6-8cy, Water<7	1016.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Teamster G3 Boom Truck	2290	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Teamster G3 ED 8-24cy, Water>7mg;	943.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Teamster G4 ED 25-65 Cy	293.7	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-19					
SF - Eastern - 20	Carpenter Apprentice	4777.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Carpenter Foreman	12642.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Carpenter Journeyman	59581.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Cement Mason Foreman	1718.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Cement Mason Journeyman	6524.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Electrical Foreman	5527.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Electrician Journeyman	15833.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Iron Worker Foreman	6466.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Iron Worker Journeyman Rebar/Stru	48943.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Laborer Foreman	2194.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Laborer G1 Vibrator, Green Cutter	1376.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Laborer G2 Concrete Laborer	4129.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Laborer G2 General	41222.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Laborer G2 High Pressure Nozzlemar	416.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Operator G1a Cranes>100 t	6696.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Operator G3a Cranes 45 t and under	7283.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Operator G4 Hvy Duty Mechanic	552.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Operator G4a Boom truck<15 ton	4333.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Operator G6 Screedman	306.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Operator G7 Oiler	7436.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Operator G8a Skidsteer <Bobcat 743	89.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Teamster G1 Hwy ED<6cy, Flatbed	1941.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Teamster G2 Hwy ED 6-8cy, Water<7	89.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Teamster G3 Boom Truck	4333.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Teamster G3 ED 8-24cy, Water>7mg;	2064.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Teamster G4 Tractor, Lowbed/Trailer	740	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-20					
SF - Eastern - 21	Carpenter Foreman	3333.33	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 21	Carpenter Journeyman	6666.67	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 21	Laborer G2 General	3333.33	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-21					
SF - Eastern - 22	Carpenter Foreman	2100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Electrical Lineman	4000	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Electrical Foreman	3200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Electrician Journeyman	400	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 22	Iron Worker Rigger	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Laborer G2 General	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Millwright	12400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Operator G1a Cranes>100 t	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Operator G3a Cranes 45 t and under	1408.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Operator G7 Oiler	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Pipefitter Foreman	1492.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Pipefitter Journeyman	4477.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Teamster G1 Hwy ED<6cy, Flatbed	2200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Teamster G4 Tractor, Lowbed/Trailer	250	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-22					

SF - Eastern - 23	Carpenter Apprentice	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Carpenter Foreman	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Carpenter Journeyman	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Electrical Foreman	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Electrician Journeyman	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Iron Worker Rigger	50	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Iron Worker Journeyman Rebar/Stru	241	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Laborer Foreman	39.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Laborer G1 Pipe Layer	2577	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Laborer G2 General	5318.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Laborer G3 Flagman	337.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	OPERATING ENGINEER FOREMAN	14800.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G2 Excavator 3.5 to 7.0 cy	1220.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G2 Finish Blade	25208.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G2a Cranes 45 to 100 t	120.48	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G3 BH-Loader>3/4cy	7538.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G3 Loader >4cy	1499.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G3a Cranes 45 t and under	120.48	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G4 BH-Loader <.76cy	50	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G4 Dozer & Push Cat	2052.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G4 Grade Check	208.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G4 Scraper	80	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G4a Boom truck<15 ton	110.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G5 Compactor w-blade	920.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G8 Pump	33.77	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Teamster G1 Hwy ED<6cy, Flatbed	59.32	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Teamster G2 Hwy ED 6-8cy, Water<7	26438	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Teamster G3 Boom Truck	170.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Teamster G3 ED 8-24cy, Water>7mg;	19086.2	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-23					

SF - Eastern - 24	Laborer G2 General	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 24	Laborer G3 Flagman	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 24	OPERATING ENGINEER FOREMAN	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 24	Operator G2 Finish Blade	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 24	Operator G4 Dozer & Push Cat	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 24	Operator G4 Loader <4.1cy	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 24	Teamster G2 Hwy ED 6-8cy, Water<7	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 24	Teamster G3 ED 8-24cy, Water>7mg;	1600	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-24					

SF - Eastern - 25	Electrical Lineman	1560	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Laborer Foreman	3900	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Laborer G1 Pipe layers	7800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Laborer G3 Flagman	41522.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Laborer G4 Clean-up	559.44	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	OPERATING ENGINEER FOREMAN	21582.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Operator G2 Excavator 3.5 to 7.0 cy	22124.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Operator G2 Finish Blade	5190.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Operator G4 Dozer & Push Cat	22404.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Operator G4 Grade Check	10380.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Operator G8 Generator	7800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Teamster G2 Hwy ED 6-8cy, Water<7	5190.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Teamster G3 Boom Truck	3900	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Teamster G3 ED 8-24cy, Water>7mg;	83604.9	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-25					

SF - Eastern - 26	Laborer G2 General	64408.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	OPERATING ENGINEER FOREMAN	49343.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G2 Excavator 3.5 to 7.0 cy	10332	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G2 Finish Blade	11202.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G2 Plant Operator	41476.92	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G3 BH-Loader>3/4cy	20738.46	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G3a Cranes 45 t and under	20738.46	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G4 Dozer & Push Cat	48073.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G4 Grade Check	31070.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G4 Scraper	73091.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G5 Compactor w-blade	18272.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G6 Tractor	2066.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G7 Roller, Compactor	28604.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G8 Pump	2066.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Teamster G1 Hwy ED<6cy, Flatbed	20738.46	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Teamster G2 Hwy ED 6-8cy, Water<7	20738.46	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Teamster G3 ED 8-24cy, Water>7mg;	11202.8	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-26					

SF - Eastern - 27	Laborer G2 General	119.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 27	OPERATING ENGINEER FOREMAN	13583.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 27	Operator G5 Compactor w-blade	119.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 27	Operator G4 Dozer & Push Cat	32095.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 27	Operator G4 Scraper	19915.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 27	Operator G2 Excavator 3.5 to 7.0 cy	17148.76	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 27	Operator G2 Finish Blade	119.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 27	Teamster G3 ED 8-24cy, Water>7mg;	34297.53	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-27					

SF - Eastern - 28	Carpenter Journeyman	2075.47	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 28	Electrician Journeyman	4150.94	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 28	Laborer Foreman	21371.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 28	Laborer G2 General	26140	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 28	Laborer G4 Clean-up	16603.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 28	Operator G3 BH-Loader>3/4cy	8610.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 28	Operator G6 Tractor	6535	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 28	Teamster G1 Hwy ED<6cy, Flatbed	21371.9	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-28					
SF - Eastern - 29	Laborer Foreman	1895.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Laborer G2 General	15469	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Laborer G3 Fence Builder	7259.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	OPERATING ENGINEER FOREMAN	5638.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G8a Skidsteer <Bobcat 743	107.14	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G2 Excavator 3.5 to 7.0 cy	2921.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G2 Finish Blade	2339.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G3 BH-Loader>3/4cy	2688	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G3 Gradall	2867.76	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G3 Loader >4cy	5355.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G4 Dozer & Push Cat	895.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G4 Grade Check	1160.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G4 Scraper	555.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G4 Trim Machine	819.64	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G5 Compactor w-blade	2093.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G6 Tractor	334	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G7 Roller, Compactor	340.74	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G8 Pump	603.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Teamster G1 Hwy ED<6cy, Flatbed	4321.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Teamster G2 Hwy ED 6-8cy, Water<7	2564.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Teamster G3 ED 8-24cy, Water>7mg;	9142.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Teamster G4 ED 25-65 Cy	2458.9	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-29					
SF - Eastern - 30	Carpenter Foreman	1187.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Carpenter Journeyman	8309.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Cement Mason Foreman	12.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Cement Mason Journeyman	36.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Iron Worker Foreman	1026.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Iron Worker Journeyman Rebar/Stru	6160.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Laborer Foreman	310	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Laborer G1 Vibrator, Green Cutter	63.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Laborer G2 Concrete Laborer	1675.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Laborer G2 General	6227.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Laborer G2 High Pressure Nozzlemar	13.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Laborer G3 Dumpman	171.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	OPERATOR - MECHANIC	137.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	OPERATING ENGINEER FOREMAN	2115.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G1a Cranes>100 t	7725.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G2 Excavator 3.5 to 7.0 cy	597.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G2 Finish Blade	134.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G2 Plant Operator	2476	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G2a Cranes 45 to 100 t	792.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G3 BH-Loader>3/4cy	1310.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G3 Loader >4cy	447	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G3a Cranes 45 t and under	1169.23	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G4 Dozer & Push Cat	1419	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G4 Grade Check	1482.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G4 Hvy Duty Mechanic	6.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G4 Scraper	808.29	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G4 Trim Machine	3.93	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G5 Compactor w-blade	269.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G5 Drilling & Boring Mach	1000	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G7 Roller, Compactor	171.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G6 Tractor	171.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G7 Oiler	1863	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Pile Driver Foreman	550	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Pile Driver Wharf and Dock	2200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Teamster G1 Hwy ED<6cy, Flatbed	1553.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Teamster G2 Hwy ED 6-8cy, Water<7	1255.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Teamster G4 ED 25-65 Cy	11.8	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-30					
SF - Eastern - 31	Carpenter Apprentice	350	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Carpenter Foreman	7363.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Carpenter Journeyman	53266.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Cement Mason Foreman	1489.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Cement Mason Journeyman	5948.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Electrical Foreman	175	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Electrician Journeyman	600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Iron Worker Foreman	8058	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Iron Worker Journeyman Rebar/Stru	49182.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Laborer Foreman	1203.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Laborer G1 Vibrator, Green Cutter	661.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Laborer G2 Concrete Laborer	10972.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Laborer G2 General	32075.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Laborer G3 Dumpman	33.33	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	OPERATING ENGINEER FOREMAN	8576	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	OPERATOR - MECHANIC	3524.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G1 Excavator >7CY	205.39	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G1a Cranes>100 t	4408.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G2 Excavator 3.5 to 7.0 cy	610	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G2 Finish Blade	215.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G3 BH-Loader>3/4cy	7727.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G2 Plant Operator	11973.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G2a Cranes 45 to 100 t	4283.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G3 Loader >4cy	4368.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G3a Cranes 45 t and under	4596.2	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 31	Operator G5 Concrete Pump	1380.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G4 Dozer & Push Cat	3925.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G4 Grade Check	7760.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G4 Hwy Duty Mechanic	132.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G5 Drilling & Boring Mach	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G5 Compactor w-blade	35.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G7 Oiler	8028.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Pile Driver Foreman	244	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Pile Driver Wharf and Dock	976	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Teamster G5 ED >65cy	1026.96	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Teamster G1 Hwy ED<6cy, Flatbed	8413.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Teamster G2 Hwy ED 6-8cy, Water<7	4262.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Teamster G3 Boom Truck	175	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Teamster G3 ED 8-24cy, Water>7mg;	17144.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Teamster G4 ED 25-65 Cy	610	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Teamster G4 Tractor, Lowbed/Trailer	401.9	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Eastern-31

SF - Eastern - 32	Carpenter Apprentice	60	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Carpenter Foreman	980	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Carpenter Journeyman	3180	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Electrical Lineman	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Electrical Foreman	900	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Electrician Journeyman	2500	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Iron Worker Foreman	98	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Iron Worker Journeyman Rebar/Stru	508.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Iron Worker Rigger	518	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Laborer G2 Concrete Laborer	2481.17	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Laborer G2 General	1830.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Operator G1a Cranes>100 t	237.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Operator G3 BH-Loader>3/4cy	222.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Operator G2a Cranes 45 to 100 t	1018	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Operator G4a Boom truck<15 ton	616.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Operator G3a Cranes 45 t and under	616.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Pipefitter Apprentice	888.89	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Pipefitter Foreman	222.22	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Pipefitter Journeyman	2133.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Teamster G1 Hwy ED<6cy, Flatbed	734	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Teamster G4 Tractor, Lowbed/Trailer	222.2	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Eastern-32

SF - Eastern - 33	Bullgang Foreman	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Bullgang Laborer	1600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Carpenter	1892	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Carpenter Foreman	287	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Compactor Operator	648	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Grade Setter / Checker	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Grader Operator	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Dozer Operator	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Flagger	648	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Iron Worker	5000	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Flat Truck Driver	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	General Foreman	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	General Laborer	1772	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Hyd Crane Operator	2201	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Iron Worker Foreman	500	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Loader Operator	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Laborer G2 General	17040	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Mechanic / Welder	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Operating Engineer	5680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Operator G2 Plant Operator	11360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Operator G3 BH Loader	5680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Operator G3a Crane	5680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Operator G4 Grade Check	5680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Operator G4 Heavy Duty Mechanic	5680	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Eastern-33

SF - Eastern - 34	Bottomlander	247	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Bullgang Foreman	16	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Bullgang Laborer	32	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Carpenter Foreman	318	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Carpenter	1272.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Concrete Superintendent	3360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Cost Engineer	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Crane Oiler	2118	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Dozer Operator	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Electrical Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	EMT	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Environmental Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Equipment Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Excavator Operator	405.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Field Engineer	5040	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Flat Truck Driver	16	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	General Foreman	1658	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	General Laborer	8479.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	General Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Geotechnical Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Grade Setter / Checker	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Grader Operator	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Hyd Crane Operator	1598.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Iron Worker	9158.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Iron Worker Foreman	1633.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Lead Miner	698.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Loader Operator	1028.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Mechanic/Welder	1294	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Miner	6192.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Office Administrator	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Office Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 34	Project Engineer	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Project Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	QC Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	QC Technician	3360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Runner	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Safety Engineer	13440	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Safety Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Schedule Engineer	3360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Shaft Crane Operator	2365	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Shift Engineers	13440	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Shifter	2313.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Survey Party Chief	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Survey Rod Man	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Toplander	1447	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Truck Driver	3971.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Tunnel Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Tunnel Walkers	13440	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-34					
SF - Eastern - 35	Bottomlander	1330.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Bullgang Foreman	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Bullgang Laborer	960	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Concrete Pump Operator	295	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Crane Oiler	1924.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Electrician	1279.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Heavy Duty Mechanic Welder	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Hyd Crane Operator	760	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Iron Worker	3948.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Iron Worker Foreman	493.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Lead Miner	1423	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Master Mechanic	480	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Mechanic/Welder	1688	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Miner	9831.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Shaft Crane Operator	1976.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Shifter	1494	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Toplander	1816.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Truck Driver	2179.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-35					
SF - Eastern - 36	Bottomlander	9170	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Bullgang Foreman	7693.9	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Bullgang Laborer	25595.5	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Conveyor Belt Man	4700	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Crane Oiler	9170	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Dozer Operator	4600	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Electrician	11350	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Fanline Carrier Operator	5000	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Fiat Truck Driver	2590	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Hyd Crane Operator	5580	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Lead Miner	5750	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Loader Operator	4600	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Man Transport Truck Operator	5103.9	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Master Mechanic	2500	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Mechanic/Welder	16440	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Miner	43620	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Operating Engineer	4600	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Operator G2 Plant Operator	4600	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Segment Carrier Operator	32000	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Shaft Crane Operator	9170	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Shifter	5750	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	TBM Operator	10200	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Toplander	9170	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Utility Truck Operator	5103.9	20	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-36					
SF - Eastern - 37	Bottomlander	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Bullgang Foreman	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Bullgang Laborer	600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Crane Oiler	815	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Electrician	1854	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Forklift Operator	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Heavy Duty Mechanic Welder	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Hyd Crane Operator	815	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Lead Miner	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Master Mechanic	300	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Mechanic/Welder	1854	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Miner	4504	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Shaft Crane Operator	1139	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Shifter	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Toplander	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Utility Truck Operator	174	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-37					
SF - Eastern - 38	Bottomlander	247	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Bullgang Foreman	16	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Bullgang Laborer	32	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Carpenter Foreman	318	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Carpenter	1272.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Compactor Operator	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Concrete Superintendent	3360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Cost Engineer	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Crane Oiler	2118	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Dozer Operator	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Electrical Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	EMT	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Environmental Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Equipment Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Excavator Operator	405.6	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 38	Field Engineer	5040	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Flat Truck Driver	16	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	General Foreman	1658	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	General Laborer	10137.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	General Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Geotechnical Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Grade Setter / Checker	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Grader Operator	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Hyd Crane Operator	1698.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Iron Worker	9158.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Iron Worker Foreman	1633.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Lead Miner	798.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Loader Operator	1028.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Mechanic/Welder	1294	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Miner	6992.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Office Administrator	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Office Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Operating Engineer	2133	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Project Engineer	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Project Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	QC Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	QC Technician	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Runner	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Safety Engineer	13440	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Safety Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Schedule Engineer	3360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Shaft Crane Operator	2365	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Shift Engineers	13440	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Shifter	2413.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Survey Party Chief	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Survey Rod Man	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Teamster G1 Hwy	2133	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Teamster G2 Hwy	2133	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Toplander	1447	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Truck Driver	3971.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Tunnel Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Tunnel Walkers	13440	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-38					
SF - Eastern - 39	Bottomlander	1330.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Bulgang Foreman	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Bulgang Laborer	960	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Concrete Pump Operator	295	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Crane Oiler	1924.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Electrician	1279.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Heavy Duty Mechanic Welder	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Hyd Crane Operator	660	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Iron Worker	3948.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Iron Worker Foreman	493.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Lead Miner	1323	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Master Mechanic	480	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Mechanic/Welder	1688	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Miner	9031.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Shaft Crane Operator	1976.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Shifter	1394	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Toplander	1816.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Truck Driver	2185.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-39					
SF - Eastern - 40	Bottomlander	9181	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Bulgang Foreman	7609	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Bulgang Laborer	25429.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Conveyor Belt Man	4710	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Crane Oiler	9181	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Dozer Operator	4610	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Electrician	11360	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Fanline Carrier Operator	5000	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Flat Truck Driver	2504	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Hyd Crane Operator	5408	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Lead Miner	5760	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Loader Operator	4610	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Man Transport Truck Operator	5105.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Master Mechanic	2500	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Mechanic/Welder	18864	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Miner	43728	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Operating Engineer	4610	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Operator G2 Plant Operator	4610	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Segment Carrier Operator	32030	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Shaft Crane Operator	9181	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Shifter	6475	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	TBM Operator	10220	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Toplander	9181	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Utility Truck Operator	5105.3	20	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-40					
SF - Eastern - 41	Bottomlander	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Bulgang Foreman	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Bulgang Laborer	600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Crane Oiler	815	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Electrician	1854	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Forklift Operator	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Heavy Duty Mechanic Welder	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Hyd Crane Operator	815	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Lead Miner	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Master Mechanic	300	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Mechanic/Welder	1854	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Miner	4504	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Shaft Crane Operator	1139	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 41	Shifter	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Toplander	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Utility Truck Operator	174	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-41					
SF - Eastern - 42	Bullgang Foreman	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Bullgang Laborer	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Carpenter	252	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Carpenter Foreman	63	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Compactor Operator	4256.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Concrete Superintendent	9840	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Cost Engineer	19680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Dozer Operator	4054.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Electrical Superintendent	19680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	EMT	19680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Environmental Manager	19680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Equipment Superintendent	19680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Flagger	404	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Field Engineer	14760	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Flat Truck Driver	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	General Foreman	202	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	General Laborer	530	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	General Superintendent	19680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Geotechnical Manager	19680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Grade Setter / Checker	4054.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Grader Operator	4054.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Hyd Crane Operator	863	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Loader Operator	202	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Mechanic/Welder	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Office Administrator	19680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Office Manager	19680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Operating Engineer	3547	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Project Engineer	19680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Project Manager	19680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	QC Manager	19680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	QC Technician	9840	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Runner	19680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Safety Engineer	39360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Safety Manager	19680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Schedule Engineer	9840	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Shift Engineers	39360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Survey Party Chief	19680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Survey Rod Man	19680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Teamster G1 Hwy	3547	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Teamster G2 Hwy	3547	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Truck Driver	3852	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Tunnel Superintendent	19680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Tunnel Walkers	39360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Operator G2 Plant Operator	7094	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Operator G3 BH Loader	3547	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Operator G3a Crane	3547	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Operator G4 Grade Check	3547	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Operator G4 Heavy Duty Mechanic	3547	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-42					
SF - Eastern - 43	Bottomlander	247	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Bullgang Foreman	16	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Bullgang Laborer	32	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Carpenter Foreman	480.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Carpenter	2426.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Compactor Operator	244	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Crane Oiler	1858	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Dozer Operator	122	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Excavator Operator	405.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Flagger	244	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Flat Truck Driver	16	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	General Foreman	1703	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	General Laborer	9166.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Grade Setter / Checker	122	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Grader Operator	122	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Hyd Crane Operator	2159.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Iron Worker	13388.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Iron Worker Foreman	1979.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Lead Miner	721.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Loader Operator	1150.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Mechanic/Welder	1217	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Miner	6376.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Shaft Crane Operator	2105.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Shifter	2182.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Toplander	1341	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Truck Driver	1297.6	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-43					
SF - Eastern - 44	Bottomlander	737	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Concrete Pump Operator	251.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Crane Oiler	1083	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Electrician	119.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Iron Worker	3196.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Iron Worker Foreman	399.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Lead Miner	735.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Mechanic Welder	484.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Miner	4331	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Shaft Crane Operator	1135	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Shifter	806.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Toplander	1135	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Truck Driver	1518	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-44					

SF - Eastern - 45	Compactor Operator	3033	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	Dozer Operator	4404.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	General Foreman	18.35	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	Grade Setter / Checker	4367.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	Grader 16H - 16' Blade	36.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	Grader Operator	7437.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	Loader Operator	1334.59	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	Operator G4 Grade Check	18.35	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	Scraper Operator	73.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	Truck Driver	4367.6	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-45					
SF - Eastern - 46	Bottomlander	247	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Bullgang Foreman	96	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Bullgang Laborer	192	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Carpenter Foreman	1746.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Carpenter	376.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Compactor Operator	3513.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Crane Oiler	1858	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Dozer Operator	3513.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Excavator Operator	405.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Flat Truck Driver	96	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	General Foreman	1518	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	General Laborer	8214.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Grade Setter / Checker	3513.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Grader Operator	3513.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Hyd Crane Operator	1781.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Iron Worker	8388.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Iron Worker Foreman	1479.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Lead Miner	721.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Loader Operator	1028.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Mechanic/Welder	1297	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Miner	6376.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Shaft Crane Operator	2105	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Shifter	2182.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Toplander	1341	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Truck Driver	4549	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-46					
SF - Eastern - 47	Bottomlander	737	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Bullgang Foreman	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Bullgang Laborer	960	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Concrete Pump Operator	251.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Crane Oiler	1243	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Electrician	279.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Heavy Duty Mechanic Welder	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Hyd Crane Operator	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Iron Worker	3196.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Iron Worker Foreman	399.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Lead Miner	735.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Master Mechanic	480	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Mechanic/Welder	644.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Miner	4331	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Shaft Crane Operator	1295	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Shifter	806.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Toplander	1135	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-47					
SF - Eastern - 48	Bottomlander	71077	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Bullgang Foreman	52272	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Bullgang Laborer	176172	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Conveyor Belt Man	39570.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Crane Oiler	71077	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Dozer Operator	34705	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Electrician	77320.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Fanline Carrier Operator	35100	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Flat Truck Driver	16458	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Hyd Crane Operator	33816	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Iron Worker		20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Master Mechanic	17550	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Lead Miner	41120.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Loader Operator	34705	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Mechanic/Welder	111328.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Miner	305004.9	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Office Administrator		20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Operator G2 Plant Operator	34705	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Operating Engineer	34705	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Segment Carrierr Operator	245702.8	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Shaft Crane Operator	71077	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Shifter	41120.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	TBM Operator	72361.4	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Toplander	71077	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Truck Driver	8553	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Utility Truck Operator	35814	20	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-48					
SF - Eastern - 49	Bottomlander	1665	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Bullgang Foreman	180	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Bullgang Laborer	760	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Crane Oiler	815	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Electrician	2480	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Flat Truck Driver	80	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Forklift Operator	950	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Heavy Duty Mechanic Welder	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Hyd Crane Operator	975	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Lead Miner	1665	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Master Mechanic	300	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Mechanic/Welder	2560	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 49	Miner	8260	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Shaft Crane Operator	1765	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Shifter	1665	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Toplander	1665	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Utility Truck Operator	800	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-49					
SF - Eastern - 50	Carpenter Apprentice	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 50	Carpenter Foreman	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 50	Electrical Foreman	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 50	Electrician Journeyman	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 50	Iron Worker Journeyman Rebar/Stru	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 50	Laborer G2 General	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 50	Millwright	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 50	Operator G2a Cranes 45 to 100 t	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 50	Teamster G3 Boom Truck	200	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-50					
SF - Eastern - 51	Carpenter Apprentice	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 51	Carpenter Foreman	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 51	Electrical Foreman	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 51	Electrician Journeyman	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 51	Iron Worker Journeyman Rebar/Stru	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 51	Laborer G2 General	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 51	Millwright	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 51	Operator G2a Cranes 45 to 100 t	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 51	Teamster G3 Boom Truck	200	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-51					
SF - Eastern - 52	Laborer G4 Clean-up	35196.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 52	OPERATING ENGINEER FOREMAN	17598.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 52	Operator G2 Micro Tunnel	2883	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 52	Operator G2 Plant Operator	14715.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 52	Operator G3 Loader >4cy	35196.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 52	Operator G4 Loader <4.1cy	5766	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 52	Operator G5 Concrete Pump	12332.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 52	Operator G7 Oiler	5265.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 52	Operator G8a Skidsteer <Bobcat 743	12332.3	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-52					
SF - Eastern - 53	Laborer G2 General	404	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 53	OPERATING ENGINEER FOREMAN	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 53	Operator G3 BH-Loader>3/4cy	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 53	Operator G4 Grade Check	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 53	Operator G5 Asphalt Roller	202	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 53	Operator G5 Paver	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 53	Teamster G2 Hwy ED 6-8cy, Water<7	50.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-53					
SF - Eastern - 54	Laborer G2 General	404	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 54	OPERATING ENGINEER FOREMAN	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 54	Operator G3 BH-Loader>3/4cy	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 54	Operator G4 Grade Check	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 54	Operator G5 Asphalt Roller	202	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 54	Operator G5 Paver	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 54	Teamster G2 Hwy ED 6-8cy, Water<7	50.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-54					
SF - Eastern - 55	Laborer G2 Concrete Laborer	600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Laborer G2 General	280	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Laborer G3 Flagman	880	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	OPERATING ENGINEER FOREMAN	720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Operator G2 Excavator 3.5 to 7.0 cy	1200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Operator G2 Finish Blade	210	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Operator G3 Loader >4cy	40	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Operator G4 Dozer & Push Cat	3180	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Operator G4 Scraper	2000	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Operator G6 Tractor	640	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Teamster G2 Hwy ED 6-8cy, Water<7	4600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Teamster G4 ED 25-65 Cy	200	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-55					

Marine Inventory for Southern Complex on Byron Tract - Eastern
Option 2

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Southern Complex on Byron Tract - Eastern
Option 2

Code	# day	Locomotive Type	From Depot Site	Delivery Depot	Rail Cars	Rail Cars/Day	Main Railroad	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
SF - Eastern - 5	21	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 7	500	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 9	225	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 10	85	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 11	296	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 12	731	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 14	671	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 15	241	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 16	163	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 18	31	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 19	354	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 20	754	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 22	246	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 23	185	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 24	181	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 26	1355	Cement, Aggregate, Sand, Flyash, B	Stockton	Southern Complex	2398	1.8	UPRR						
SF - Eastern - 27	1748	Soil Material	Stockton	Southern Complex	24052	13.8	UPRR						
SF - Eastern - 29	275	Riprap	Stockton	Southern Complex	3443	12.5	UPRR						
SF - Eastern - 30	185	Cement, Aggregate, Sand, Flyash, R	Stockton	Southern Complex	390	2.1	UPRR						
SF - Eastern - 31	522	Cement, Aggregate, Sand, Flyash, B	Stockton	Southern Complex	1532	2.9	UPRR						
SF - Eastern - 34	771	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 35	90	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 37	36	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 39	277	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 41	38	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 44	93	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						

Helicopter Inventory for Southern Complex on Byron Tract - Central Option 2

For 36 new transmission towers along 8.3 miles of new 230 kV line

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
SF - Central 5			2		

Earthmoving/Paving Assumptions for Southern Complex on Byron Tract - Eastern
Option 2

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
SF - Eastern - 1		208									
SF - Eastern - 2		324									
SF - Eastern - 3		252		90891	361	238663	947				
SF - Eastern - 4		228		48121	211	100678	442			1403505	6156
SF - Eastern - 5	32	21	1.5			15000	714				
SF - Eastern - 9		225		1000	4	5000	22				
SF - Eastern - 10		85				4450	52				
SF - Eastern - 11		296		71241	241	29230	99				
SF - Eastern - 12		731		162648	223						
SF - Eastern - 13		876		72637	83	4793	5				
SF - Eastern - 14		671		117000	174		0				
SF - Eastern - 15B		366		199100	544	23424	64				
SF - Eastern - 16		163				4517	28				
SF - Eastern - 17		34				680	20				
SF - Eastern - 18		31				1511	49				
SF - Eastern - 19		354				16769	47			224118	633
SF - Eastern - 20		754					0				
SF - Eastern - 22		246					0				
SF - Eastern - 23		185		150974	816	185339	1002			126720	685
SF - Eastern - 24	921	181	5.1				0				
SF - Eastern - 25		445		2799678	6291	70220	158				
SF - Eastern - 26		1355				9774800	7214				
SF - Eastern - 27		1748									
SF - Eastern - 28		2176									
SF - Eastern - 29	3	275	0.01		0	344210	1252				
SF - Eastern - 30		185		61000	330	102835	556				
SF - Eastern - 31		522		154044	295	2000	4				
SF - Eastern - 32		137									
SF - Eastern - 33		263									
SF - Eastern - 34		771		109027	141	135982	176				
SF - Eastern - 35		90									
SF - Eastern - 36		343									
SF - Eastern - 37		36									
SF - Eastern - 38		952		109027	115	135982	143				
SF - Eastern - 39		277									
SF - Eastern - 40		418									
SF - Eastern - 42	12	2367	0.01			169539	72				
SF - Eastern - 43		240		95485	398						
SF - Eastern - 44		93		142728	1535						
SF - Eastern - 45		166									
SF - Eastern - 46		446		95485	214	154676	347				
SF - Eastern - 48		2113		6069	3						
SF - Eastern - 49		71									
SF - Eastern - 50		41									
SF - Eastern - 51		43									
SF - Eastern - 53		11								431730	39248
SF - Eastern - 54		12								431730	35978
SF - Eastern - 55	376	240	1.6			983488	4098				

**Demolition Assumptions for Southern Complex on Byron Tract - Eastern
Option 2**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Southern Complex West of Byron Highway - South Delta Conv - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Mobilization - Gravel Bedding, Formwork, Rebar, Concrete for Slabs	SDC - Central & Eastern - 1	6/19/2030	8/22/2030	46	5	10
Roads, Utilities, Construction Office, Shops, Other Structures	SDC - Central & Eastern - 2	6/25/2030	10/11/2030	80	5	10
Utility, Facility, and Plant Operations	SDC - Central & Eastern - 3	10/14/2030	3/17/2037	1675	5	10
Tunnel Outlet Excavation & Cofferdam	SDC - Central & Eastern - 4	5/8/2030	5/8/2031	261	5	10
South Delta Tunnel Outlet Structure Excavation, Sheet Piles, Forms	SDC - Central & Eastern - 5	5/8/2030	5/6/2031	259	5	10
Reception Shaft - East: Slurry Wall and Guide Wall	SDC - Central & Eastern - 6	5/7/2031	9/12/2031	93	5	10
Reception Shaft - East: Tremie Seal	SDC - Central & Eastern - 7	9/8/2031	9/16/2031	9	7	24
Reception Shaft - East: Dewater Shaft	SDC - Central & Eastern - 8	9/22/2031	9/26/2031	5	5	10
Reception Shaft - East: Tunnel Cradle	SDC - Central & Eastern - 9	9/29/2031	10/6/2031	5	5	10
Reception Shaft - East: Slurry Wall Breakout	SDC - Central & Eastern - 10	10/7/2031	10/31/2031	19	5	10
Reception Shaft - East: Assemble Shaft with Concrete	SDC - Central & Eastern - 11	10/27/2031	1/6/2032	52	5	10
Reception Shaft - West: Slurry Wall and Guide Wall	SDC - Central & Eastern - 12	7/10/2031	12/9/2031	111	5	10
Reception Shaft - West: Tremie Seal	SDC - Central & Eastern - 13	2/6/2032	2/16/2032	10	7	24
Reception Shaft - West: Dewater Shaft	SDC - Central & Eastern - 14	2/20/2032	2/26/2032	5	5	10
Reception Shaft - West: Tunnel Cradle	SDC - Central & Eastern - 15	2/27/2032	3/5/2032	6	5	10
Reception Shaft - West: Slurry Wall Breakout	SDC - Central & Eastern - 16	3/8/2032	4/1/2032	19	5	10
Reception Shaft - West: Assemble Shaft with Concrete	SDC - Central & Eastern - 17	4/2/2032	6/14/2032	54	5	10
Calif Aqueduct Div Channel Excavation and Earthwork	SDC - Central & Eastern - 18	5/8/2030	10/18/2032	640	5	10
Calif Aqueduct Control Structure: Cofferdam	SDC - Central & Eastern - 19	2/3/2031	1/22/2032	350	5	10
Calif Aqueduct Control Structure: Construct Concrete Slabs and Fram	SDC - Central & Eastern - 20	1/8/2032	12/24/2032	250	5	10
Calif Aqueduct Control Structure: Remove Cofferdam	SDC - Central & Eastern - 21	1/25/2033	4/15/2033	59	5	10
Calif Aqueduct Control Structure: Construct Walls	SDC - Central & Eastern - 22	5/25/2032	9/27/2032	90	5	10
Calif Aqueduct Control Structure: Weir and Bridge	SDC - Central & Eastern - 23	9/28/2032	12/3/2032	49	5	10
Calif Aqueduct Control Structure: Gates and Stoplogs	SDC - Central & Eastern - 24	12/3/2032	4/21/2033	100	5	10
South Delta Tunnel Outlet: Excavation	SDC - Central & Eastern - 25	4/24/2034	4/13/2035	253	5	10
South Delta Tunnel Outlet Structure: Construct Slabs and Walls	SDC - Central & Eastern - 26	4/24/2034	7/30/2036	592	5	10
South Delta Tunnel Outlet Building: Construct Slabs and Walls	SDC - Central & Eastern - 27	6/27/2035	1/6/2037	660	5	10
South Delta Tunnel Outlet Building: Gates and Stoplogs	SDC - Central & Eastern - 28	4/2/2036	1/16/2037	208	5	10
South Delta Tunnel Outlet Building: Remove Cofferdam and Construc	SDC - Central & Eastern - 29	1/6/2037	3/17/2037	51	5	10
Southern Complex West of Byron Highway: Site Restoration	SDC - Central & Eastern - 30	1/27/2037	5/4/2037	70	5	10

Total Site Acres

150

APPENDIX G – ATTACHMENT 2

Project Design Capacity 7,500 cfs

FINAL DRAFT

Construction Schedule for Intake 3 Haul Rd - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	I3 HRd-C&E Access -1	6/25/2027	7/8/2027	14	5	10
Embankment	I3 HRd-C&E Access -2	7/9/2027	7/15/2027	5	5	10
Culvert Pipe	I3 HRd-C&E Access -3	7/16/2027	7/19/2027	3	3	10
Subdrain System	I3 HRd-C&E Access -4	7/20/2027	8/4/2027	14	5	10
Road Base	I3 HRd-C&E Access -5	8/5/2027	8/24/2027	15	5	10
Asphalt Paving	I3 HRd-C&E Access -6	8/25/2027	8/30/2027	5	5	10
KRail and Signs	I3 HRd-C&E Access -7	8/31/2027	8/31/2027	1	1	10
Intermediate Overlay	I3 HRd-C&E Access -8	6/17/2030	6/17/2030	1	1	10
Final Overlay	I3 HRd-C&E Access -9	8/18/2037	8/19/2037	2	2	10

Acres 0.4

Construction Schedule for Intake 5 Haul Rd - Central & Eastern Access Road

All Options

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	I5 HRd-C&E Access -1	4/9/2027	4/26/2027	14	5	10
Embankment	I5 HRd-C&E Access -2	4/27/2027	5/3/2027	5	5	10
Culvert Pipe	I5 HRd-C&E Access -3	5/4/2027	5/5/2027	3	3	10
Subdrain System	I5 HRd-C&E Access -4	5/6/2027	5/25/2027	14	5	10
Road Base	I5 HRd-C&E Access -5	5/26/2027	6/16/2027	16	5	10
Asphalt Paving	I5 HRd-C&E Access -6	6/17/2027	6/23/2027	5	5	10
KRail and Signs	I5 HRd-C&E Access -7	6/24/2027	6/24/2027	1	1	10
Intermediate Overlay	I5 HRd-C&E Access -8	5/15/2030	5/17/2030	3	3	10
Final Overlay	I5 HRd-C&E Access -9	7/1/2037	7/6/2037	5	5	10

Acres

1

Construction Schedule for Intake Haul Rd - Central & Eastern Access Road

Options 1, 2, 7, 8, 9, 10

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	IHRd-C&E Access -1	4/27/2026	7/20/2026	61	5	10
Embankment	IHRd-C&E Access -2	7/21/2026	9/24/2026	48	5	10
Culvert Pipe	IHRd-C&E Access -3	9/25/2026	10/1/2026	5	5	10
Subdrain System	IHRd-C&E Access -4	10/2/2026	12/17/2026	55	5	10
Road Base	IHRd-C&E Access -5	12/18/2026	2/25/2027	50	5	10
Asphalt Paving	IHRd-C&E Access -6	2/26/2027	4/7/2027	30	5	10
KRail and Signs	IHRd-C&E Access -7	4/8/2027	4/8/2027	1	1	10
Intermediate Overlay	IHRd-C&E Access -8	4/30/2030	5/10/2030	9	5	10
Final Overlay	IHRd-C&E Access -9	6/16/2037	7/29/2037	32	5	10

Acres

10.4

NOTE: Access road between Intakes 2 and 3 are included in Intake 2 tables

Construction Schedule for Lambert Rd - Central & Eastern Access Road

For Intake Access Road Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	LRd-C&E Access -1	2/26/2027	3/2/2027	5	5	10
Culvert Pipe	LRd-C&E Access -2	3/3/2027	3/3/2027	1	1	10
Subdrain System	LRd-C&E Access -3	3/4/2027	3/18/2027	11	5	10
Road Base	LRd-C&E Access -4	3/19/2027	3/31/2027	10	5	10
Asphalt Paving	LRd-C&E Access -5	4/1/2027	4/6/2027	5	5	10
KRail and Signs	LRd-C&E Access -6	4/7/2027	4/20/2027	10	5	10
Intermediate Overlay	LRd-C&E Access -7	5/30/2030	6/7/2030	6	5	10
Final Overlay	LRd-C&E Access -8	7/29/2037	8/7/2037	8	5	10

Acres **12.5**

Construction Schedule for Hood-Franklin Park and Ride

For Intake Employees Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	HFPR -1	4/27/2026	7/31/2026	69	5	10
Embankment	HFPR -2	8/3/2026	8/13/2026	9	2	10
Culvert Pipe	HFPR -3	8/14/2026	8/19/2026	5	3	10
Subdrain System	HFPR -4	8/20/2026	8/25/2026	5	5	10
Road Base	HFPR -5	8/26/2026	10/6/2026	30	5	10
Asphalt Paving	HFPR -6	10/7/2026	11/23/2026	27	5	10
Electrical, Striping, and K-Rail Installation	HFPR -7	11/25/2026	11/27/2026	3	3	10

Acres

4.1

Construction Schedule for Hood-Franklin Road Overlay - Central & Eastern Access Road
 For Intake Access Employee Van - Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B
 THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	HFRd-C&E Overlay -1	11/24/2026	11/30/2026	5	5	10
Intermediate Overlay	HFRd-C&E Overlay -2	4/22/2030	4/29/2030	5	5	10
Final Overlay	HFRd-C&E Overlay -3	6/8/2037	6/16/2037	7	5	10
Acres	7.5					

Construction Schedule for SR160 Overlay - Central & Eastern Access Road
Intakes Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Initial Overlay	SR160 C&E Overlay -1	6/24/2027	7/14/2027	15	5	10
Intermediate Overlay	SR160 C&E Overlay -2	7/23/2030	8/12/2030	20	5	10
Final Overlay	SR160 C&E Overlay -3	8/26/2037	9/16/2037	20	5	10

Construction Schedule for Intake 2_1500 cfs_Central & Eastern**Options 9B, 10B - Tee Screens****THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 2****NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION**

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Development of Initial Intake Box Culverts & Gantry Crane	Intake 2 - Central & Eastern - 1	1/26/2034	4/4/2034	50	5	10
Initial Temporary Buildings	Intake 2 - Central & Eastern - 2	12/23/2030	8/25/2031	176	5	10
Phase 1 Sitework	Intake 2 - Central & Eastern - 3	4/17/2031	2/4/2032	211	5	10
Operations of Temporary Buildings	Intake 2 - Central & Eastern - 4	4/17/2031	3/16/2035	1012	5	10
Phase 2 Sitework - Foundations	Intake 2 - Central & Eastern - 5	2/2/2032	6/21/2033	361	5	10
Initial Roads and Move SR 160	Intake 2 - Central & Eastern - 6	1/5/2032	2/2/2032	21	5	10
Install Cofferdam	Intake 2 - Central & Eastern - 7	2/2/2032	7/14/2032	117	5	10
Construct Reception Shaft	Intake 2 - Central & Eastern - 8	9/27/2032	8/2/2033	216	5	10
Place Tremie Seal in Reception Shaft	Intake 2 - Central & Eastern - 9	8/5/2033	8/8/2033	3	3	24
Dewater Reception Shaft	Intake 2 - Central & Eastern - 10	8/10/2033	8/19/2033	7	7	24
Assemble Reception Shaft	Intake 2 - Central & Eastern - 11	8/19/2033	12/15/2033	84	5	10
Intake Structure within Cofferdam	Intake 2 - Central & Eastern - 12	7/14/2032	1/26/2034	402	5	10
Piles and Concrete in Sedimentation Basin	Intake 2 - Central & Eastern - 13	11/12/2032	8/31/2033	190	5	10
Intake Connections and Gates	Intake 2 - Central & Eastern - 14	9/10/2032	3/8/2034	391	5	10
Sedimentation Basin Mechanical and Electrical	Intake 2 - Central & Eastern - 15	8/31/2033	5/18/2034	186	5	10
Finish Box Culverts	Intake 2 - Central & Eastern - 16	6/22/2033	7/1/2033	7	5	10
Install Fish Screen, Appurtenant Facilities, Log Boom, and Rip Rap	Intake 2 - Central & Eastern - 17	10/21/2033	9/22/2034	240	5	10
Move SR 160 to Final Location	Intake 2 - Central & Eastern - 18	6/17/2033	8/1/2033	31	5	10
Basin Embankments, Gates, Buildings, and Substation	Intake 2 - Central & Eastern - 19	8/1/2033	9/1/2034	284	5	10
Remove Cofferdam - Phase 1	Intake 2 - Central & Eastern - 20	5/4/2034	7/5/2034	45	5	10
Remove Cofferdam - Phase 2	Intake 2 - Central & Eastern - 21	5/23/2034	7/4/2034	31	5	10
Finish Site Work, Sedimentation Basin Curtain, and Fencing	Intake 2 - Central & Eastern - 22	3/8/2034	12/12/2034	200	5	10
Finish Intake Exteriors	Intake 2 - Central & Eastern - 23	1/31/2035	3/16/2035	32	5	10
Site Restoration	Intake 2 - Central & Eastern - 24	3/16/2035	5/30/2035	56	5	10
Finish Sedimentation Basin	Intake 2 - Central & Eastern - 25	12/12/2034	1/31/2035	37	5	10

Total Site Acres**240**

Construction Schedule for Intake 3_3000 cfs_Central & Eastern**Options 1B, 2B, 7B, 8B, 9B, 10B - Tee Screens****THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1****NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION**

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Development of Initial Intake Box Culverts & Gantry Crane	Intake 3 - Central & Eastern - 1	1/1/2026	3/29/2026	64	5	10
Initial Concrete Placement for Sedimentation Basin	Intake 3 - Central & Eastern - 2	1/1/2026	4/29/2033	1677	5	10
Initial Temporary Buildings	Intake 3 - Central & Eastern - 3	2/11/2030	12/13/2030	220	5	10
Phase 1 Sitework	Intake 3 - Central & Eastern - 4	6/24/2030	6/11/2031	252	5	10
Use of Temporary Buildings	Intake 3 - Central & Eastern - 5	2/11/2030	11/27/2036	1772	5	10
Initial Roads and Move SR 160	Intake 3 - Central & Eastern - 6	5/2/2031	6/6/2031	26	5	10
Phase 2 Sitework - Foundations	Intake 3 - Central & Eastern - 7	6/6/2031	2/15/2033	446	5	10
Install Cofferdam	Intake 3 - Central & Eastern - 8	6/6/2031	12/22/2031	144	5	10
Construct Reception Shaft	Intake 3 - Central & Eastern - 9	8/27/2031	5/24/2032	195	5	10
Place Tremie Seal in Reception Shaft	Intake 3 - Central & Eastern - 10	5/25/2032	5/27/2032	2	2	24
Dewater Reception Shaft	Intake 3 - Central & Eastern - 11	5/28/2032	6/3/2032	5	5	10
Assemble Reception Shaft	Intake 3 - Central & Eastern - 12	6/4/2032	9/2/2032	65	5	10
Intake Structure within Cofferdam	Intake 3 - Central & Eastern - 13	12/31/2031	11/30/2033	500	5	10
Intake Connections and Gates	Intake 3 - Central & Eastern - 14	1/22/2032	1/9/2034	513	5	10
Piles and Concrete in Sedimentation Basin	Intake 3 - Central & Eastern - 15	5/17/2032	3/4/2033	210	5	10
Move SR 160 to Final Location	Intake 3 - Central & Eastern - 16	12/28/2032	2/1/2033	26	5	10
Finish Box Culverts	Intake 3 - Central & Eastern - 17	2/15/2033	3/1/2033	9	5	10
Basin Embankments, Gates, Buildings, and Substation	Intake 3 - Central & Eastern - 18	3/1/2033	3/29/2034	281	5	10
Sedimentation Basin Mechanical and Electrical	Intake 3 - Central & Eastern - 19	4/29/2033	3/21/2034	234	5	10
Install Fish Screen, Appurtenant Facilities, Log Boom, and Rip Rap	Intake 3 - Central & Eastern - 20	6/27/2033	7/20/2034	278	5	10
Remove Cofferdam	Intake 3 - Central & Eastern - 21	2/24/2034	9/21/2034	129	5	10
Finish Site Work, Sedimentation Basin Curtain, and Fencing	Intake 3 - Central & Eastern - 22	2/19/2035	7/22/2036	371	5	10
Finish Sedimentation Basin	Intake 3 - Central & Eastern - 23	8/1/2036	10/2/2036	45	5	10
Finish Intake Exteriors	Intake 3 - Central & Eastern - 24	10/3/2036	11/27/2036	39	5	10
Site Restoration	Intake 3 - Central & Eastern - 25	11/28/2036	3/2/2037	69	5	10

Total Site Acres**240**

Construction Schedule for Intake 5_3000 cfs_Central & Eastern

Options 1B, 2B, 5B, 6B, 9B, 10B - Tee Screens

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Development of Initial Intake Box Culverts & Gantry Crane	Intake 5 - Central & Eastern - 1	1/1/2026	3/29/2026	64	5	10
Initial Temporary Buildings	Intake 5 - Central & Eastern - 2	4/2/2029	3/3/2030	240	5	10
Phase 1 Sitework	Intake 5 - Central & Eastern - 3	3/4/2030	2/20/2031	253	5	10
Operations of Temporary Buildings	Intake 5 - Central & Eastern - 4	3/4/2030	8/9/2035	1418	5	10
Phase 2 Sitework - Foundations	Intake 5 - Central & Eastern - 5	10/25/2029	7/27/2032	920	5	10
Initial Roads and Move SR 160	Intake 5 - Central & Eastern - 6	10/3/2030	11/17/2030	33	5	10
Install Cofferdam	Intake 5 - Central & Eastern - 7	11/17/2030	9/8/2031	211	5	10
Construct Reception Shaft	Intake 5 - Central & Eastern - 8	2/27/2031	10/23/2031	164	5	10
Place Tremie Seal in Reception Shaft	Intake 5 - Central & Eastern - 9	10/26/2031	10/28/2031	3	5	10
Dewater Reception Shaft	Intake 5 - Central & Eastern - 10	10/29/2031	11/4/2031	5	2	24
Assemble Reception Shaft	Intake 5 - Central & Eastern - 11	11/5/2031	3/1/2032	84	5	10
Intake Structure within Cofferdam	Intake 5 - Central & Eastern - 12	7/24/2031	12/9/2033	360	5	10
Piles and Concrete in Sedimentation Basin	Intake 5 - Central & Eastern - 13	11/7/2031	10/20/2032	249	5	10
Intake Connections and Gates	Intake 5 - Central & Eastern - 14	1/10/2032	12/7/2033	597	5	10
Sedimentation Basin Mechanical and Electrical	Intake 5 - Central & Eastern - 15	10/6/2032	10/19/2033	270	5	10
Finish Box Culverts	Intake 5 - Central & Eastern - 16	10/27/2032	11/9/2032	9	5	10
Install Fish Screen, Appurtenant Facilities, Log Boom, and Rip Rap	Intake 5 - Central & Eastern - 17	5/25/2033	9/15/2034	342	5	10
Move SR 160 to Final Location	Intake 5 - Central & Eastern - 18	6/20/2033	8/12/2033	39	5	10
Basin Embankments, Gates, Buildings, and Substation	Intake 5 - Central & Eastern - 19	8/12/2033	7/31/2034	253	5	10
Remove Cofferdam - Phase 1	Intake 5 - Central & Eastern - 20	1/24/2034	5/29/2034	91	5	10
Remove Cofferdam - Phase 2	Intake 5 - Central & Eastern - 21	11/1/2035	1/8/2036	51	5	10
Finish Site Work, Sedimentation Basin Curtain, and Fencing	Intake 5 - Central & Eastern - 22	6/20/2034	4/27/2035	223	5	10
Finish Intake Exteriors	Intake 5 - Central & Eastern - 23	10/26/2034	8/9/2035	205	5	10
Site Restoration	Intake 5 - Central & Eastern - 24	12/21/2034	3/23/2035	67	5	10
Finish Sedimentation Basin	Intake 5 - Central & Eastern - 25	3/1/2035	5/10/2035	51	5	10

Total Site Acres

240

Construction Schedule for Lambert Rd Conc Batch Plant - Central & Eastern

Options 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 2

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	LR CBP-C&E -1	10/7/2026	10/14/2026	6	5	10
Embankment	LR CBP-C&E -2	10/15/2026	10/15/2026	1	1	10
Culvert Pipe	LR CBP-C&E -3	10/16/2026	10/16/2026	1	1	10
Subdrain System	LR CBP-C&E -4	10/19/2026	10/19/2026	1	1	10
Road Base	LR CBP-C&E -5	10/20/2026	10/22/2026	3	3	10
Asphalt Paving	LR CBP-C&E -6	10/23/2026	10/27/2026	5	5	10
Erect Batch Plant	LR CBP-C&E -7A	10/28/2026	11/24/2026	19	5	10
Erect Batch Plant	LR CBP-C&E -7B	5/6/2030	5/31/2030	19	5	10
Erect Batch Plant	LR CBP-C&E -7C	2/27/2031	3/20/2031	10	5	10
Batch Plant Operations - Phase 1 - Concrete for Shafts	LR CBP-C&E -8	3/17/2027	3/14/2031	1041	5	10
Batch Plant Operations - Phase 2 - Concrete for Intake 5	LR CBP-C&E -9	6/28/2029	7/17/2034	1318	5	10
Batch Plant Operations - Phase 3 - Concrete for Intake 3	LR CBP-C&E -10	6/29/2032	12/6/2035	897	5	10
Batch Plant Operations - Phase 4 - Concrete for Intake 2	LR CBP-C&E -11	12/16/2032	5/29/2036	900	5	10

Construction Schedule for Dierssen Rd - Central & Eastern Access Road**Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B****THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1**

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	DRd-C&E Access -1	1/18/2027	1/21/2027	4	4	10
Embankment	DRd-C&E Access -2	1/22/2027	1/26/2027	5	5	10
Culvert Pipe	DRd-C&E Access -3	1/27/2027	1/27/2027	1	1	10
Subdrain System	DRd-C&E Access -4	1/28/2027	2/9/2027	9	5	10
Road Base	DRd-C&E Access -5	2/10/2027	2/18/2027	7	5	10
Asphalt Paving	DRd-C&E Access -6	2/19/2027	2/22/2027	4	4	10
KRail and Signs	DRd-C&E Access -7	2/23/2027	3/16/2027	14	5	10
Intermediate Overlay	DRd-C&E Access -8	5/22/2030	5/24/2030	3	3	10
Final Overlay	DRd-C&E Access -9	7/21/2037	7/24/2037	4	4	10

Acres**7.2**

Construction Schedule for Franklin Blvd RR - Central & Eastern Access Road
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Sub-Ballast	FB RR-C&E Access -1	6/10/2026	6/25/2026	12	5	10
Ballast	FB RR-C&E Access -2	6/26/2026	7/14/2026	15	5	10
Track	FB RR-C&E Access -3	7/15/2026	8/27/2026	32	5	10

Construction Schedule for Franklin Blvd - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	FB-C&E Access -1	11/24/2026	11/30/2026	5	5	10
Embankment	FB-C&E Access -2	12/1/2026	12/16/2026	12	5	10
Culvert Pipe	FB-C&E Access -3	12/17/2026	12/17/2026	1	1	10
Subdrain System	FB-C&E Access -4	12/18/2026	12/28/2026	9	5	10
Road Base	FB-C&E Access -5	12/29/2026	1/15/2027	14	5	10
Asphalt Paving	FB-C&E Access -6	1/18/2027	1/21/2027	4	4	10
KRail and Signs	FB-C&E Access -7	1/22/2027	1/22/2027	1	1	10
Intermediate Overlay	FB-C&E Access -8	5/27/2030	5/29/2030	3	3	10
Final Overlay	FB-C&E Access -9	7/24/2037	7/29/2037	4	4	10

Acres

5

Construction Schedule for Twin Cities Ring Levee - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Construct Ring Levee	TCC RL-C&E -1	2/28/2028	6/19/2028	96	5	10

Acres44.8

Construction Schedule for Twin Cities Rd - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	TC Rd-C&E Access -1	1/5/2026	1/7/2026	3	3	10
Culvert Pipe & Subdrain System	TC Rd-C&E Access -2	1/8/2026	1/19/2026	10	5	10
Road Base	TC Rd-C&E Access -3	1/20/2026	2/9/2026	15	5	10
Asphalt Paving & KRail and Signs	TC Rd-C&E Access -4	2/10/2026	2/16/2026	5	5	10
Intermediate Overlay	TC Rd-C&E Access -5	6/10/2030	6/12/2030	3	3	10
Final Overlay	TC Rd-C&E Access -6	9/30/2037	10/5/2037	5	5	10

Acres **3.9**

Construction Schedule for Twin Cities Complex - Eastern Tunnel Shaft
Options 10A, 1B

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Mobilize, Excavate, & Mobilize	TCC-Eastern - 1	1/5/2026	5/8/2028	611	5	10
Embankment	TCC-Eastern - 2	3/12/2026	4/21/2026	29	5	10
Subdrain	TCC-Eastern - 3	4/22/2026	6/9/2026	34	5	10
Management, Engineering, & Field Labor - Reach 2	TCC-Eastern - 4	3/17/2027	3/9/2038	2862	5	10
Clear and Grub	TCC-Eastern - 5	5/12/2027	7/12/2027	44	5	10
Excavation, Grading, & Compaction - Reach 2	TCC-Eastern - 6	3/17/2027	4/24/2028	289	5	10
Raise Shaft Pad for Reach 2	TCC-Eastern - 7	9/7/2027	4/3/2028	149	5	10
Set Strips, & Concrete for Reach 2	TCC-Eastern - 8	8/16/2027	11/12/2027	65	5	10
Place Guide Walls Concrete for Reach 2	TCC-Eastern - 9	4/3/2028	4/26/2028	18	5	10
Slurry Wall, Place Concrete & Rebar, Slurry Wall, Remove Guide Wall, & add Top Beam for Reach 2	TCC-Eastern - 10	4/27/2028	8/17/2028	81	5	10
Place Guide Walls Concrete for Reach 1	TCC-Eastern - 11	8/8/2028	8/28/2028	15	5	10
Slurry Wall, Place Concrete & Rebar, Slurry Wall, Remove Guide Wall, & add Top Beam for Reach 1	TCC-Eastern - 12	8/29/2028	1/4/2029	93	5	10
Excavate Shaft for Reach 2	TCC-Eastern - 13	1/4/2029	4/4/2029	65	5	10
Management, Engineering, & Field Labor - Reach 1	TCC-Eastern - 14	3/21/2029	11/4/2036	1990	5	10
Shaft Setup for Reach 1	TCC-Eastern - 15	3/21/2029	4/18/12029	21	5	10
Excavate Shaft for Reach 1	TCC-Eastern - 16	4/4/2029	7/3/2029	65	5	10
Place Tremie Seal Rebar, Cooling Pipes, & Seal for Reaches 1 & 2	TCC-Eastern - 17	6/19/2029	8/2/2029	45	7	24
Dewater Shaft for Reaches 1 & 2	TCC-Eastern - 18	7/17/2029	8/7/2029	21	7	24
Place TBM Cradle Rebar and Cradle Pour for Reaches 1 & 2	TCC-Eastern - 19	8/2/2029	8/20/2029	14	5	10
Breakout Slurry Wall for TBM for Reaches 1 & 2	TCC-Eastern - 20	8/6/2029	9/17/2029	41	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner Reaches 1 & 2	TCC-Eastern - 21	9/3/2029	1/9/2030	93	5	10
Erect Gantry Crane for Reaches 1 & 2	TCC-Eastern - 22	11/16/2029	12/10/2029	18	5	10
TBM Assembly including Shaft Utilities for Reach 2	TCC-Eastern - 23	12/10/2029	6/6/2030	105	5	10
Tunneling Operations including Equipment Delivery for Reach 2	TCC-Eastern - 24	1/14/2030	11/3/2037	2444	6	20
TBM Assembly including Shaft Utilities for Reach 1	TCC-Eastern - 25	10/2/2030	1/1/2031	65	5	10
Tunneling Operations including Equipment Delivery for Reach 1	TCC-Eastern - 26	7/17/2030	8/20/2036	1907	6	20
Remove TBM and Tunnel Equipment for Reach 1	TCC-Eastern - 27	8/20/2036	11/4/2036	55	5	10
Remove TBM and Tunnel Equipment for Reach 2	TCC-Eastern - 28	11/4/2036	2/24/2038	342	5	10
Site Restoration	TCC-Eastern - 29	2/23/2038	8/30/2028	135	5	10

Total Site Acres

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**Offroad Equipment (Fossil Fuel) Inventory for Twin Cities Complex - Eastern Tunnel Shaft
Options 10A, 1B**

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
TCC-Eastern - 1	Air Compressor 185 CFM	Air Compressor	405.7	611	0.7	Diesel Tier 4	49	0.48		
TCC-Eastern - 1	Boom Truck, 12.5 Tn Boom	Crane	202.8	611	0.3	Diesel or Hybrid	100	0.29		
TCC-Eastern - 1	CAT D6LGPDozer w winch	Crawler Tractor	364.4	611	0.6	Diesel or Hybrid	179	0.43		
TCC-Eastern - 1	CAT Forklift 5,500 LB	Aerial Lift	28000.2	611	45.8	Diesel	63	0.31		
TCC-Eastern - 1	Grove RT Crane 30T	Crane	11200.1	611	0.0	Diesel	160	0.29		
TCC-Eastern - 1	Hydraulic 40 Ton Crane	Crane		611	0.0	Diesel	300	0.29		
TCC-Eastern - 1	Hydraulic 9 Ton Crane	Crane		611	0.0	Diesel	85	0.29		
TCC-Eastern - 1	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	182.2	611	0.3	Diesel	384	0.38		
TCC-Eastern - 1	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	199.2	611	0.3	Diesel or Hybrid	75	0.31		
TCC-Eastern - 2	CAT 14 M	Grader	116.4	29	4.0	Diesel	274	0.41		
TCC-Eastern - 2	CAT 825, Roller	Rollers	232.8	29	8.0	Diesel	315	0.38		
TCC-Eastern - 2	CAT D6LGPDozer w winch	Crawler Tractor	232.8	29	8.0	Diesel or Hybrid	179	0.43		
TCC-Eastern - 2	Disk, Towed	Off-Highway Tractor	232.8	29	8.0	Diesel	140	0.44		
TCC-Eastern - 2	Water Pump 4" Electric	Pumps	27.9	29	1.0	Diesel	10	0.74		
TCC-Eastern - 3	CAT LOADER/HOE 416 E	Rubber Tired Loader	87.31	34	2.6	Diesel	78	0.36		
TCC-Eastern - 3	Compactor, Trench Roller, Vib 32"w	Roller	174.63	34	5.1	Diesel	20	0.38		
TCC-Eastern - 5	CAT D8 Dozer	Crawler Tractor	1039.5	44	23.6	Diesel Tier 4 or Hybrid Diesel	179	0.43		
TCC-Eastern - 5	Grader 16H - 16' Blade	Grader	1039.5	44	23.6	Diesel	285	0.41		
TCC-Eastern - 5	623G Scraper Elevate 21 CY	Scaper	2079.0	44	47.3	Diesel	359	0.48		
TCC-Eastern - 6	CAT 825H Compactor	Rollers	252	289	0.9	Diesel	145	0.38		
TCC-Eastern - 6	CAT CB-634D Vibratory 84"	Rollers	252	289	0.9	Diesel	315	0.38		
TCC-Eastern - 6	CAT Grader 16H	Grader	252	289	0.9	Diesel	285	0.41		
TCC-Eastern - 6	CAT 980 Loader 7.5 CY	Grader	252	289	0.9	Diesel	285	0.41		
TCC-Eastern - 6	CAT D8 Dozer	Crawler Tractor	4541.7	289	15.7	Diesel Tier 4 or Hybrid Diesel	179	0.43		
TCC-Eastern - 6	623G Scraper Elevate 21 CY	Scaper	8579.5	289	29.7	Diesel	359	0.48		
TCC-Eastern - 6	CAT Forklift 5,500 LB	Aerial Lift	400	289	1.4	Diesel	63	0.31		
TCC-Eastern - 6	Hydraulic 40 Ton Crane	Crane	400	289	1.4	Diesel	300	0.29		
TCC-Eastern - 6	Hydraulic 9 Ton Crane	Crane	875.9	289	3.0	Diesel	85	0.29		
TCC-Eastern - 7	CAT CB-634D Vibratory 84"	Rollers	1676.0	149	11.2	Diesel	315	0.38		
TCC-Eastern - 7	CAT Grader 16H	Grader	1676.0	149	11.2	Diesel	285	0.41		
TCC-Eastern - 7	CAT D8 Dozer	Crawler Tractor	1676.0	149	11.2	Diesel Tier 4 or Hybrid Diesel	179	0.43		
TCC-Eastern - 9	CAT Hyd Excavator 1CY	Excavator	10	18	0.6	Diesel	138	0.38		
TCC-Eastern - 9	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	10	18	0.6	Diesel or Hybrid	130	0.36		
TCC-Eastern - 10	1600 CFM Compressor Diesel	Air Compressor	530.1	81	6.5	Diesel Tier 4	540	0.48		
TCC-Eastern - 10	250 CFM Compressor Diesel	Air Compressor	14.6	81	0.2	Diesel Tier 3	75	0.48		
TCC-Eastern - 10	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	926.6	81	11.4	Diesel or Hybrid	130	0.36		
TCC-Eastern - 10	CAT Hyd Excavator 1CY	Excavator	396.5	81	4.9	Diesel	138	0.38		
TCC-Eastern - 10	Hydraulic 55 Ton Crane	Crane	1060.2	81	13.1	Diesel	350	0.29		
TCC-Eastern - 10	Hydraulic Excavator to 3.5 tons = Kobelco SK485LC' 2.75cy 345 hp	Excavator	396.5	81	4.9	Diesel	345	0.38		
TCC-Eastern - 10	Excavator									
TCC-Eastern - 10	Manitowoc 777 200 Ton Crane	Crane	1060.2	81	13.1	Diesel	760	0.29		
TCC-Eastern - 10	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	530.1	81	6.5	Diesel	8	0.56		
TCC-Eastern - 10	Slurry Wall Techniwell	Pumps	530.1	81	6.5	Diesel	500	0.74		
TCC-Eastern - 11	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	10	15	0.7	Diesel or Hybrid	130	0.36		
TCC-Eastern - 11	CAT Hyd Excavator 1CY	Excavator	10	15	0.7	Diesel	138	0.38		
TCC-Eastern - 12	1600 CFM Compressor Diesel	Air Compressor	530.1	93	5.7	Diesel Tier 4	540	0.48		
TCC-Eastern - 12	250 CFM Compressor Diesel	Air Compressor	14.6	93	0.2	Diesel Tier 3	75	0.48		
TCC-Eastern - 12	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	926.6	93	10.0	Diesel or Hybrid	130	0.36		
TCC-Eastern - 12	CAT Hyd Excavator 1CY	Excavator	396.5	93	4.3	Diesel	138	0.38		
TCC-Eastern - 12	Hydraulic 55 Ton Crane	Crane	1060.2	93	11.4	Diesel	350	0.29		
TCC-Eastern - 12	Hydraulic Excavator to 3.5 tons =	Excavator	396.5	93	4.3	Diesel	345	0.38		
TCC-Eastern - 12	Manitowoc 777 200 Ton Crane	Crane	1060.2	93	11.4	Diesel	760	0.29		
TCC-Eastern - 12	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	530.1	93	5.7	Diesel	8	0.56		
TCC-Eastern - 12	Slurry Wall Techniwell	Pumps	530.1	93	5.7	Diesel	500	0.74		
TCC-Eastern - 13	Manitowoc 777 200 Ton Crane	Crane	749.1	65	11.5	Diesel	760	0.29		
TCC-Eastern - 15	1600 CFM Compressor Diesel	Air Compressor	133.3	21	6.3	Diesel Tier 4	540	0.48		
TCC-Eastern - 15	CAT Forklift 5,500 LB	Aerial Lift	400	21	19.0	Diesel	63	0.31		
TCC-Eastern - 15	Heavy Duty Mechanic Welder	Welder	133.3	21	6.3	Diesel	400	0.45		
TCC-Eastern - 15	Hydraulic 25 Ton Crane	Crane	133.3	21	6.3	Diesel	100	0.29		
TCC-Eastern - 15	Hydraulic 40 Ton Crane	Crane	400	21	19.0	Diesel	300	0.29		
TCC-Eastern - 15	Hydraulic 9 Ton Crane	Crane	400	21	19.0	Diesel	85	0.29		
TCC-Eastern - 15	Telescope RT Forklift 5500	Forklift	133.3	21	6.3	Diesel	63	0.2		
TCC-Eastern - 15	Truck Crane Lattice Boom 90T	Crane	133.3	21	6.3	Diesel Tier 4	300	0.29		
TCC-Eastern - 16	Manitowoc 777 200 Ton Crane	Crane	749.1	65	11.5	Diesel	760	0.29		
TCC-Eastern - 17	Manitowoc 777 200 Ton Crane	Crane	560.3	45	12.5	Diesel	760	0.29		
TCC-Eastern - 17	Hydraulic 40 Ton Crane	Crane	167	45	3.7	Diesel	300	0.29		
TCC-Eastern - 17	Hydraulic 25 Ton Crane	Crane	414.6	45	9.2	Diesel	100	0.29		
TCC-Eastern - 18	Hydraulic 15 Ton Crane	Crane	208.7	21	9.9	Diesel	85	0.29		
TCC-Eastern - 18	Dewater Pump 6"	Pump	834.8	21	39.8	Diesel	50	0.74		
TCC-Eastern - 18	150 KW Diesel Generator	Generator	104.3	21	5.0	Diesel Tier 4	183	0.74		
TCC-Eastern - 19	Manitowoc 777 200 Ton Crane	Crane	119.5	14	8.5	Diesel	760	0.29		
TCC-Eastern - 19	Trailer Conc Pump 100 CY HR	Pump	44.5	14	3.2	Diesel	200	0.74		
TCC-Eastern - 19	250 CFM Compressor Diesel	Air Compressor	44.5	14	3.2	Diesel Tier 3	75	0.48		
TCC-Eastern - 20	250 CFM Compressor Diesel	Air Compressor	568.1	41	13.9	Diesel Tier 3	75	0.48		
TCC-Eastern - 20	Manitowoc 777 200 Ton Crane	Crane	568.1	41	13.9	Diesel	760	0.29		
TCC-Eastern - 21	250 CFM Compressor Diesel	Air Compressor	1094.7	93	11.8	Diesel Tier 3	75	0.48		
TCC-Eastern - 21	Manitowoc 777 200 Ton Crane	Crane	743.7	93	8.0	Diesel	760	0.29		
TCC-Eastern - 21	Trailer Conc Pump 100 CY HR	Pump	460.3	93	4.9	Diesel	200	0.74		

TCC-Eastern - 21	Manitowoc 999-275 Ton Crane	Crane	510.9	93	5.5	Diesel	900	0.29
TCC-Eastern - 22	1600 CFM Compressor Diesel	Air Compressor	133.3	18	7.4	Diesel Tier 4	540	0.48
TCC-Eastern - 22	Hydraulic 25 Ton Crane	Crane	133.3	18	7.4	Diesel	100	0.29
TCC-Eastern - 22	Truck Crane Lattice Boom 90T	Crane	133.3	18	7.4	Diesel Tier 4	300	0.29
TCC-Eastern - 22	Telescope RT Forklift 5500	Forklift	133.3	18	7.4	Diesel	63	0.2
TCC-Eastern - 22	Heavy Duty Mechanic Welder	Welder	133.3	18	7.4	Diesel	400	0.45
TCC-Eastern - 23	250 CFM Compressor Diesel	Air Compressor	1916.7	105	18.3	Diesel Tier 3	75	0.48
TCC-Eastern - 23	Hydraulic 40 Ton Crane	Crane	2978.3	105	28.4	Diesel	300	0.29
TCC-Eastern - 23	Air Compressor 185 CFM	Air Compressor	22.6	105	0.2	Diesel Tier 4	49	0.48
TCC-Eastern - 23	Boom Truck, 12.5 Tn Boom	Crane	11.3	105	0.1	Diesel or Hybrid	100	0.29
TCC-Eastern - 23	CAT Forklift 5,500 LB	Aerial Lift	1895	105	18.0	Diesel	63	0.31
TCC-Eastern - 23	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	11.3	105	0.1	Diesel or Hybrid	75	0.31
TCC-Eastern - 24	250 CFM Compressor Diesel	Air Compressor	26383.3	2444	10.8	Diesel Tier 3	75	0.48
TCC-Eastern - 24	CAT 988 H Wheel Loader	Rubber Tired Loader	13454.2	2444	5.5	Diesel	400	0.36
TCC-Eastern - 24	CAT D8 Dozer	Crawler Tractor	13454.2	2444	5.5	Diesel Tier 4 or Hybrid Diesel	179	0.43
TCC-Eastern - 24	CAT Forklift 5,500 LB	Aerial Lift	10896.7	2444	4.5	Diesel	63	0.31
TCC-Eastern - 24	Grout Mixer	Cement & Mortar Mix	1281.7	2444	0.5	Diesel	70	0.56
TCC-Eastern - 24	Grout Pump	Cement & Mortar Mix	1281.7	2444	0.5	Diesel	500	0.56
TCC-Eastern - 24	Hydraulic 40 Ton Crane	Crane	10896.7	2444	4.5	Diesel	300	0.29
TCC-Eastern - 24	Hydraulic 9 Ton Crane	Crane	10896.7	2444	4.5	Diesel	85	0.29
TCC-Eastern - 24	Manitowoc 777 200 Ton Crane	Crane	46685.6	2444	19.1	Diesel	760	0.29
TCC-Eastern - 25	250 CFM Compressor Diesel	Air Compressor	1916.7	65	29.5	Diesel Tier 3	75	0.48
TCC-Eastern - 25	Hydraulic 40 Ton Crane	Crane	750	65	11.5	Diesel	300	0.29
TCC-Eastern - 26	250 CFM Compressor Diesel	Air Compressor	19932.1	1907	10.5	Diesel Tier 3	75	0.48
TCC-Eastern - 26	Hydraulic 40 Ton Crane	Crane	10626.6	1907	5.6	Diesel	300	0.29
TCC-Eastern - 26	Hydraulic 9 Ton Crane	Crane	10626.6	1907	5.6	Diesel	85	0.29
TCC-Eastern - 26	CAT Forklift 5,500 LB	Aerial Lift	10626.6	1907	5.6	Diesel	63	0.31
TCC-Eastern - 26	CAT D8 Dozer	Crawler Tractor	10426.2	1907	5.5	Diesel Tier 4 or Hybrid Diesel	179	0.43
TCC-Eastern - 26	CAT 988 H Wheel Loader	Rubber Tired Loader	10426.2	1907	5.5	Diesel	400	0.36
TCC-Eastern - 26	Grout Pump	Cement & Mortar Mix	982.9	1907	0.5	Diesel	500	0.56
TCC-Eastern - 26	Grout Mixer	Cement & Mortar Mix	982.9	1907	0.5	Diesel	70	0.56
TCC-Eastern - 27	1600 CFM Compressor Diesel	Air Compressor	83.3	55	1.5	Diesel Tier 4	540	0.48
TCC-Eastern - 27	Heavy Duty Mechanic Welder	Welder	83.3	55	1.5	Diesel	400	0.45
TCC-Eastern - 27	Hydraulic 25 Ton Crane	Crane	83.3	55	1.5	Diesel	100	0.29
TCC-Eastern - 27	Hydraulic 55 Ton Crane	Crane	595.8	55	10.8	Diesel	350	0.29
TCC-Eastern - 27	Manitowoc 777 200 Ton Crane	Crane	595.8	55	10.8	Diesel	760	0.29
TCC-Eastern - 27	Telescope RT Forklift 5500	Forklift	779.1	55	14.2	Diesel	63	0.2
TCC-Eastern - 27	Truck Crane Lattice Boom 90T	Crane	83.3	55	1.5	Diesel Tier 4	300	0.29
TCC-Eastern - 28	1600 CFM Compressor Diesel	Air Compressor	83.3	342	0.2	Diesel Tier 4	540	0.48
TCC-Eastern - 28	Heavy Duty Mechanic Welder	Welder	83.3	342	0.2	Diesel	400	0.45
TCC-Eastern - 28	Hydraulic 25 Ton Crane	Crane	83.3	342	0.2	Diesel	100	0.29
TCC-Eastern - 28	Hydraulic 55 Ton Crane	Crane	1029.2	342	3.0	Diesel	350	0.29
TCC-Eastern - 28	Hydraulic 9 Ton Crane	Crane	83.5	342	0.2	Diesel	85	0.29
TCC-Eastern - 28	Manitowoc 777 200 Ton Crane	Crane	595.8	342	1.7	Diesel	760	0.29
TCC-Eastern - 28	Telescope RT Forklift 5500	Forklift	825	342	2.4	Diesel	63	0.2
TCC-Eastern - 28	Truck Crane Lattice Boom 90T	Crane	83.3	342	0.2	Diesel Tier 4	300	0.29
TCC-Eastern - 29	Air Compressor 185 CFM	Air Compressor	33.9	135	0.3	Diesel Tier 4	49	0.48
TCC-Eastern - 29	Boom Truck, 12.5 Tn Boom	Crane	22.6	135	0.2	Diesel or Hybrid	100	0.29
TCC-Eastern - 29	CAT 12 M	Grader	757.6	135	5.6	Diesel	173	0.41
TCC-Eastern - 29	CAT 390 MASS EXC	Excavator	735	135	5.4	Diesel	534	0.38
TCC-Eastern - 29	Cat 6 mgal w/ CAT 725 Tractor, 320hp	Crawler Tractor	782.3	135	5.8	Diesel	320	0.43
TCC-Eastern - 29	CAT 621G Scraper, Conventional	Scraper	525	135	3.9	Diesel	330	0.48
TCC-Eastern - 29	CAT 631G Scraper, Conventional	Scraper	1732.5	135	12.8	Diesel	515	0.48
TCC-Eastern - 29	CAT 815, Roller	Rollers	525	135	3.9	Diesel	170	0.38
TCC-Eastern - 29	CAT 966 GII Wheel Loader	Rubber Tired Loader	105	135	0.8	Diesel	170	0.36
TCC-Eastern - 29	CAT 966 Loader 5.5 CY	Rubber Tired Loader	216.9	135	1.6	Diesel	286	0.36
TCC-Eastern - 29	CAT 988 H Wheel Loader	Rubber Tired Loader		135	0.0	Diesel	400	0.36
TCC-Eastern - 29	CAT D8Rii, Dozer w winch	Crawler Tractor	2258.5	135	16.7	Diesel	310	0.43
TCC-Eastern - 29	CAT D9R, Dozer w ripper	Crawler Tractor	1638	135	12.1	Diesel	410	0.43
TCC-Eastern - 29	CAT Hyd Excavator 1CY	Excavator	216.9	135	1.6	Diesel	138	0.38
TCC-Eastern - 29	Disk, Towed	Off-Highway Tractor	294	135	2.2	Diesel	140	0.44
TCC-Eastern - 29	Farm Tractor, All Wheel Drive, 285 HP	Off-Highway Tractor	850.5	135	6.3	Diesel	80	0.44
TCC-Eastern - 29	Hydro Mulcher, 18 HP	Pump	105	135	0.8	Diesel	25	0.29
TCC-Eastern - 29	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	2205	135	16.3	Diesel	345	0.38
TCC-Eastern - 29	Manitowoc 777 200 Ton Crane	Crane	216.9	135	1.6	Diesel	760	0.29
TCC-Eastern - 29	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	11.3	135	0.1	Diesel or Hybrid	75	0.31

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

**Offroad Equipment (Electric) Inventory for Twin Cities Complex - Eastern Tunnel Shaft
Options 10A, 1B**

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
TCC-Eastern - 1	400A, Electric Welder	405.7	611	0.25	0
TCC-Eastern-2	Light Plant, 4 lite, 1000w	931.3	29		
TCC-Eastern - 10	Gantry Crane		81	0.25	0
TCC-Eastern - 23	400A, Electric Welder	22.6	105	0.25	0
TCC-Eastern - 23	Gantry Crane	958.3	105	0.25	2
TCC-Eastern - 23	Axial Fan 114,000 CFM	1375	105	50	655
TCC-Eastern - 24	Axial Fan 114,000 CFM	263080.7	2444	50	5,382
TCC-Eastern - 25	Gantry Crane	1375	65	0.25	5
TCC-Eastern - 25	Axial Fan 114,000 CFM	1791.7	65	50	1,378
TCC-Eastern - 26	Gantry Crane	37776.2	1907	0.25	5
TCC-Eastern - 26	Axial Fan 114,000 CFM	199936.4	1907	50	5,242
TCC-Eastern - 27	Gantry Crane	695.8	55	0.25	3
TCC-Eastern - 28	Gantry Crane	741.7	342	0.25	1
TCC-Eastern - 29	400A, Electric Welder	330.9	135	0.25	1

Electricity for TBM Operations included in the Summary Workbook

Vehicle Inventory for Twin Cities Complex - Eastern Tunnel Shaft
Options 10A, 1B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. office)	# day	Vehicle Hours	Hours/trip	# of Vehicles Trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
TCC-Eastern - 1	Pickup, 1/2T, 2wd	Materials from Sacramento	611	28896.8	0.6	50994	83.5	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 1	Pickup, 3/4T, 4wd	Materials from Stockton	611	74200.0	1.1	69563	113.9	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline	
TCC-Eastern - 1	Truck Flatbed 4 T Highway	Materials from Sacramento	611	28400.1	0.6	50118	82.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 1	Truck, Flatbed, 10T, Hwy	Crane, Tractor and Aerial Lift from Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 1	Truck, Flatbed, 10T, Hwy	Excavator, Two Cranes, Aerial Lift from and to Sacramento	2	2.3	0.6	4	2.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 2	Pickup, 1/2T, 2wd	Materials from Sacramento	29	232.8	0.6	411	14.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 2	Truck, Flatbed, 10T, Hwy	Roller from Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 2	Truck, Flatbed, 10T, Hwy	Tractor to Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 2	Truck, Flatbed, 10T, Hwy	Grader from and to Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 3	Truck, Flatbed, 10T, Hwy	Loader from and to Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 5	Truck, Flatbed, 10T, Hwy	Dozer, Scraper, and Grader from Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 6	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	289	134.9	0.6	238	0.8	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 6	Truck Flatbed 4 T Highway	Rebar from Sacramento	289	8.5	0.6	15	0.1	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 6	Truck, Flatbed, 10T, Hwy	Roller from Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 6	Truck, Flatbed, 10T, Hwy	Roller, Grader, and Scraper to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 6	Truck, Flatbed, 10T, Hwy	Loader from and to Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 7	Highway Dump Truck 18 CY	Materials from Sacramento	149	96.3	0.6	170	1.1	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 7	Truck, Flatbed, 10T, Hwy	Grader from Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 7	Truck, Flatbed, 10T, Hwy	Two Cranes from and to Sacramento	2	2.3	0.6	4	2.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 8	Truck Flatbed 4 T Highway	Rebar from Sacramento	65	8.5	0.6	15	0.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 8	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	65	41.6	0.0	1249	19.2	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Eastern - 8	Truck, Flatbed, 10T, Hwy	Dozer, Grader, and Roller to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 8	Truck, Flatbed, 10T, Hwy	Crane from and to Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 9	Truck, Flatbed, 10T, Hwy	Excavator and Loader from Sacramento	1	1.1	0.6	2	2.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 9	Truck Flatbed 4 T Highway	Rebar from Sacramento	18	34.6	0.6	61	3.4	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 9	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	18	46.5	0.0	1396	77.6	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Eastern - 9	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	18	100.3	0.6	177	9.8	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 10	Truck, Flatbed, 10T, Hwy	Excavator and Two Cranes from Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 10	Truck Flatbed 4 T Highway	Rebar from Sacramento	81	0.6	0.6	1	0.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 10	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	81	0.6	0.0	19	0.2	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Eastern - 12	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	93	48.1	0.0	1442	15.5	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Eastern - 12	Truck Flatbed 4 T Highway	Rebar from Sacramento	93	35.1	0.6	62	0.7	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 12	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	93	100.3	0.6	177	1.9	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 12	Truck, Flatbed, 10T, Hwy	Two Excavators, Loader, and Crane from Sacramento	1	2.3	0.6	4	4.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 14	Truck Flatbed 4 T Highway	Materials from Sacramento	1990	0.6	0.6	1	0.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 15	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	21	96.3	0.6	170	8.1	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 15	Truck, Flatbed, 10T, Hwy	Five Cranes and Aerial Lift from Sacramento	1	3.4	0.6	6	6.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 17	Truck Flatbed 4 T Highway	Rebar from Sacramento	45	19.3	0.6	34	0.8	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 17	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	45	87.4	0.0	2622	58.3	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Eastern - 18	Truck, Flatbed, 10T, Hwy	Crane from and to Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 18	Truck Flatbed 4 T Highway	Rebar from Sacramento	21	2.8	0.6	5	0.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 18	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	21	3.1	0.0	94	4.5	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Eastern - 19	Truck Flatbed 4 T Highway	Rebar from Sacramento	14	4.0	0.6	7	0.5	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 19	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	14	3.1	0.0	94	6.7	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Eastern - 21	Truck Flatbed 4 T Highway	Rebar from Sacramento	93	5.1	0.6	9	0.1	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 21	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	93	30.8	0.0	924	9.9	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Eastern - 21	Truck Flatbed 10 T Highway	Materials from Sacramento	93	15912.5	0.6	28081	301.9	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 23	Truck Flatbed 10 T Highway	Materials from Sacramento	105	1895.0	0.6	3344	31.8	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 23	Pickup, 1/2T, 2wd	Materials from Sacramento	105	1222.6	0.6	2158	20.5	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 23	Pickup, 3/4T, 4wd	Materials from Stockton	105	1200.0	1.1	1125	0.0	South Delta Conveyance to/from Stockton	32	64	Hybrid Gasoline	
TCC-Eastern - 23	Truck, Flatbed, 10T, Hwy	Pre-Cast Segments from Sacramento	105	254.4	0.6	449	4.3	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 23	Concrete Transit Mix Truck 12cy	Pre-Cast Segment Grout from Lambert Batch Plant	105	96.1	0.0	2882	27.4	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Eastern - 24	Truck Flatbed 4 T Highway	Materials from Sacramento	2444	147.3	0.6	260	0.1	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 24	Truck Flatbed 4 T Highway	Materials from Sacramento	2444	254.4	0.6	449	0.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 24	Truck, Flatbed, 10T, Hwy	Pre-Cast Segment Grout from Lambert Batch Plant	2444	741.1	0.0	22232	9.1	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Eastern - 24	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	2444	10896.7	0.6	19229	7.9	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 24	Utility Truck	Materials from Sacramento	1	27882.6	1.1	26140	26139.9	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 25	Truck, Flatbed, 10T, Hwy	Pre-Cast Segment Grout from Lambert Batch Plant	65	71.1	0.0	2133	32.8	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	

TCC Eastern - 26	All Purpose and Utility Truck	Materials from Stockton	1907	1089.0	1.1	1021	0.5	South Delta Conveyance to/from Stockton	32	64	Diesel
TCC Eastern - 26	Truck, Flatbed, 10T, Hwy	Pre-Cast Segment Grout from Lambert Batch Plant	1907	488.2	0.0	14645	7.7	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel
TCC Eastern - 26	Truck, Flatbed, 10T, Hwy	Doser Tractor and Loader Grader to Sacramento	1	1.1	0.6	2	2.0	Twin Cities Complex to/from Sacramento	17	34	Diesel
TCC Eastern - 26	Truck, Flatbed, 10T, Hwy	Pre-Cast Segments from Sacramento	1907	6343.8	0.6	11195	5.9	Twin Cities Complex to/from Sacramento	17	34	Diesel
TCC Eastern - 27	All Purpose and Utility Truck	Materials from Stockton	55	1089.0	1.1	0	0	South Delta Conveyance to/from Stockton	32	64	Diesel
TCC Eastern - 27	Truck, Flatbed, 10T, Hwy	Three Cranes to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel
TCC Eastern - 28	All Purpose and Utility Truck	Materials from Stockton	342	1316.7	1.1	1234	3.6	South Delta Conveyance to/from Stockton	32	64	Diesel
TCC Eastern - 28	Truck, Flatbed, 10T, Hwy	Remove TBM to Sacramento	342	83.5	0.6	147	0.4	Twin Cities Complex to/from Sacramento	17	34	Diesel
TCC Eastern - 28	Truck, Flatbed, 10T, Hwy	Two Aerial Lifts and Crane to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel
TCC Eastern - 29	Truck, Flatbed, 10T, Hwy	Scraper, Four Tractors, Grader, Roller, Scraper, Loader, and Excavator to/from Sacramento	2	5.7	0.6	10	5.0	Twin Cities Complex to/from Sacramento	17	34	Diesel
TCC Eastern - 29	Truck, Flatbed, 10T, Hwy	Crane, Two Excavators, to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel
TCC Eastern - 29	Truck Flatbed 4 T Highway	Materials from Sacramento	135	105.4	0.6	186	1.4	Twin Cities Complex to/from Sacramento	17	34	Diesel
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) -- on the Construction Site											
TCC Eastern - 1	Articulated Rear Dump 22 CY/CAT 730	Dumers to move fill on-site	611	1093.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	Miles On-Site		Diesel or Hybrid
TCC Eastern - 2	Cat 30mm w/Cat 770, S11HP	Dumers	29	116.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	5466		Diesel
TCC Eastern - 3	Truck, End Dump, 10-13cy, Hwy	Dumers	34	174.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	873		Diesel
TCC Eastern - 7	Truck, End Dump, 10-13cy, Hwy	Dumers	149	1676.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	8380		Diesel
TCC Eastern - 7	Truck, End Dump, 10-13cy, Hwy	Dumpers for Filled from Twin Cities Complex Borrow	149	4918.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	24590		Diesel
TCC Eastern - 10	CAT 730 Rear Dump	Dumper	81	162	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	809		Diesel or Hybrid
TCC Eastern - 11	CAT 730 Rear Dump	Dumper	15	162	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	809		Diesel or Hybrid
TCC Eastern - 12	CAT 730 Rear Dump	Dumper	93	604.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3022		Diesel or Hybrid
TCC Eastern - 12	Articulated Rear Dump 22 CY/CAT 730	Dumper	93	530.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2651		Diesel or Hybrid
TCC Eastern - 29	CAT 725 Tractor, 320hp	Dumper	135	782.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3912		Diesel
TCC Eastern - 29	Truck, End Dump, 10-13cy, Hwy	Dumper	135	9219.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	46095		Diesel
TCC Eastern - 29	CAT 740-40T, Articulated End dump	Dumper	135	735.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0		Diesel or Hybrid

Employees Required to Twin Cities Complex - Eastern Tunnel Shaft
Options 10A, 1B

Code	Employee Type	Hours	# Work Hours/Day	Trip Location (to/from)	Commute Miles/ One-way Trip/Day
TCC-Eastern - 1	Carpenter Apprentice	405.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Carpenter Foreman	398.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Carpenter Journeyman	796.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Electrical Foreman	199.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Electrician Journeyman	796.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Iron Worker Journeyman Rebar/Struct	796.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Laborer G2 General	796.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	OPERATING ENGINEER FOREMAN	91.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Operator G2 Excavator 3.5 to 7.0 cy	182.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Operator G3a Cranes 45 t and under	11765.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Teamster G1 Hwy ED<6cy, Flatbed	28400.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Teamster G3 Boom Truck	202.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Teamster G3 ED 8-24cy, Water>7mgal	1093.3	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-1					
TCC-Eastern - 2	Laborer G2 General	27.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 2	Operator G5 Compactor w-blade	232.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 2	Operator G4 Dozer & Push Cat	232.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 2	OPERATING ENGINEER FOREMAN	232.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 2	Operator G2 Finish Blade	116.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 2	Teamster G3 ED 8-24cy, Water>7mgal	116.4	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-2					
TCC-Eastern - 3	Laborer G1 Pipe layers	349.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 3	Laborer G1 Power Tamper	174.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 3	Operator G3 BH-Loader>3/4cy	87.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 3	Teamster G2 Hwy ED 6-8cy, Water<7mgal	174.6	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-3					
TCC-Eastern - 4	Concrete Superintendent	23040.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Cost Engineer	23040.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Electrical Superintendent	22218.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Environmental Manager	22218.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Equipment Superintendent	22218.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Field Engineer	17280.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	General Superintendent	23040.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Geotechnical Manager	22218.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Office Administrator	23040.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Office Manager	23040.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Payroll Clerk	23040.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Project Engineer	23040.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Project Manager	23040.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Purchasing Agent	23040.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	QC Manager	23040.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	QC Technician	11520.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Runner	23040.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Safety Engineer	44432.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Safety Manager	23040.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Schedule Engineer	11520.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Shift Engineers	44432.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Survey Party Chief	23040.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Survey Rod Man	23040.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Tunnel Superintendent	22218.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Tunnel Walkers	44432.6	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-4					
TCC-Eastern - 5	General Foreman	495.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 5	Dozer Operator	990.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 5	Grader Operator	990.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 5	Operator G4 Grade Check	495.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 5	Scraper Operator	1980.0	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-5					
TCC-Eastern - 6	Bulldozer Foreman	400.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 6	Bulldozer Laborer	800.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 6	Carpenter	304.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 6	Carpenter Foreman	76.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 6	Compactor Operator	480.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 6	Dozer Operator	4325.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 6	Flagger	480.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 6	Flat Truck Driver	400.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 6	General Foreman	2282.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 6	General Laborer	1009.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 6	Grade Setter / Checker	240.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 6	Grader Operator	4325.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 6	Iron Worker	3770.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 6	Iron Worker Foreman	377.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 6	Loader Operator	240.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 6	Operator G4 Grade Check	2042.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 6	Scraper Operator	8170.9	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-6					
TCC-Eastern - 7	Grade Setter / Checker	1676.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 7	Compactor Operator	1676.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 7	Dozer Operator	1676.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 7	Grader Operator	1676.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 7	Truck Driver	1676.0	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-7					
TCC-Eastern - 8	General Laborer	280.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 8	Carpenter	1120.0	10	Sacramento to/from Twin Cities Complex	17

TCC-Eastern - 8	Carpenter Foreman	140.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 8	Truck Driver	560.0	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-8					
TCC-Eastern - 9	Carpenter	713.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 9	Carpenter Foreman	178.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 9	Excavator Operator	10.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 9	General Laborer	16.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 9	Lead Miner	10.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 9	Loader Operator	10.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 9	Miner	10.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 9	Shifter	10.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 9	Truck Driver	159.6	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-9					
TCC-Eastern - 10	Carpenter	88.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Carpenter Foreman	22.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Crane Oiler	1060.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Excavator Operator	396.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	General Foreman	1456.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	General Laborer	7083.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Hyd Crane Operator	1060.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Iron Worker	5377.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Iron Worker Foreman	1079.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Lead Miner	530.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Loader Operator	926.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Mechanic Welder	1060.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Miner	4240.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Shaft Crane Operator	1060.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Shifter	1590.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Truck Driver	604.3	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-10					
TCC-Eastern - 11	Carpenter	563.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 11	Carpenter Foreman	140.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 11	Excavator Operator	10.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 11	Lead Miner	10.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 11	Loader Operator	10.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 11	Miner	10.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 11	Shifter	10.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 11	Truck Driver	159.6	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-9					
TCC-Eastern - 12	Carpenter	239.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Carpenter Foreman	59.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Crane Oiler	1060.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Excavator Operator	396.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	General Foreman	1456.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	General Laborer	7100.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Hyd Crane Operator	1060.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Iron Worker	5377.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Iron Worker Foreman	1079.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Lead Miner	530.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Loader Operator	926.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Mechanic / Welder	1060.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Miner	4240.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Shaft Crane Operator	1060.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Shifter	1590.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Truck Driver	604.3	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-12					
TCC-Eastern - 13	Shaft Crane Operator	749.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 13	Toplander	749.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 13	Crane Oiler	749.1	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-13					
TCC-Eastern - 14	Concrete Superintendent	18353.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Cost Engineer	18353.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Electrical Superintendent	17698.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Environmental Manager	17698.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Equipment Superintendent	17698.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Field Engineer	13765.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	General Superintendent	18353.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Geotechnical Manager	17698.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Office Administrator	18353.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Office Manager	18353.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Payroll Clerk	18353.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Project Engineer	18353.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Project Manager	18353.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Purchasing Agent	18353.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	QC Manager	18353.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	QC Technician	9176.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Runner	18353.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Safety Engineer	35396.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Safety Manager	18353.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Schedule Engineer	9176.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Shift Engineers	35396.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Survey Party Chief	18353.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Survey Rod Man	18353.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Tunnel Superintendent	17698.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Tunnel Walkers	35396.3	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-14					
TCC-Eastern - 15	Bulfgang Foreman	533.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 15	Bulfgang Laborer	1600.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 15	Mechanic / Welder	533.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 15	Hyd Crane Operator	933.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 15	Flat Truck Driver	400.0	10	Sacramento to/from Twin Cities Complex	17

TCC-Eastern - 15	Master Mechanic	400.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 15	Shaft Crane Operator	133.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 15	Crane Oiler	133.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 15	Heavy Duty Mechanic Welder	133.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 15	Electrician	133.3	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-15					
TCC-Eastern - 16	Shaft Crane Operator	749.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 16	Toplander	749.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 16	Crane Oiler	749.1	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-16					
TCC-Eastern - 17	Bottomlander	486.3	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 17	Crane Oiler	74.1	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 17	Hyd Crane Operator	581.5	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 17	Iron Worker	5818.4	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 17	Iron Worker Foreman	727.3	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 17	Lead Miner	103.6	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 17	Miner	2283.8	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 17	Shaft Crane Operator	560.3	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 17	Shifter	830.9	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 17	Toplander	1228.2	24	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-17					
TCC-Eastern - 18	Shifter	208.7	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 18	Lead Miner	208.7	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 18	Miner	1669.6	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 18	Hyd Crane Operator	208.7	24	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-18					
TCC-Eastern - 19	Crane Oiler	118.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 19	Electrician	44.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 19	Iron Worker	592.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 19	Iron Worker Foreman	74.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 19	Lead Miner	44.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 19	Miner	503.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 19	Mechanic Welder	44.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 19	Shaft Crane Operator	118.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 19	Shifter	118.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 19	Toplander	118.5	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-19					
TCC-Eastern - 20	Bottomlander	568.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 20	Crane Oiler	568.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 20	Iron Worker	4544.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 20	Iron Worker Foreman	568.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 20	Shaft Crane Operator	568.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 20	Toplander	568.1	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-20					
TCC-Eastern - 21	Bottomlander	868.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Carpenter Foreman		10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Concrete Pump Operator	460.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Crane Oiler	1379.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Electrician	455.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Lead Miner	1254.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Master Mechanic	125.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Mechanic Welder	1169.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Miner	6750.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Shaft Crane Operator	1379.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Shifter	1317.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Toplander	1379.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Truck Driver	460.3	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-21					
TCC-Eastern - 22	Bulgang Foreman	133.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 22	Bulgang Laborer	800.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 22	Mechanic / Welder	133.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 22	Master Mechanic	400.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 22	Shaft Crane Operator	133.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 22	Crane Oiler	133.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 22	Electrician	133.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 22	Hyd Crane Operator	133.3	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-22					
TCC-Eastern - 23	Bottomlander	958.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Bulgang Foreman	1895.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Bulgang Laborer	3790.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Carpenter Apprentice	22.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Carpenter Foreman	22.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Carpenter Journeyman	45.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Conveyor Belt Man	833.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Crane Oiler	958.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Electrician	3041.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Electrical Foreman	11.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Electrician Journeyman	45.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Flat Truck Driver	1895.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Hyd Crane Operator	4540.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Iron Worker Journeyman Rebar/Struct	45.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Laborer G2 General	45.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Lead Miner	2125.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Operator G3a Cranes 45 t and under	22.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Segment Carrier Operator	2000.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Mechanic / Welder	4936.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Miner	14250.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Shaft Crane Operator	958.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Shifter	21250.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	ST2G Mucker Operator	333.3	10	Sacramento to/from Twin Cities Complex	17

TCC-Eastern - 23	TBM Operator	2333.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Teamster G3 Boom Truck	11.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Toplander	958.3	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-23					
TCC-Eastern - 24	Bottomlander	48635.0	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Bulgang Foreman	38779.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Bulgang Laborer	133323.7	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Conveyor Belt Man	29828.7	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Crane Oiler	48635.0	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Dozer Operator	26909.2	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Electrician	57070.4	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Fanline Carrier Operator	27241.8	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Flat Truck Driver	10896.7	20		
TCC-Eastern - 24	Hyd Crane Operator	21793.3	20		
TCC-Eastern - 24	Lead Miner	29828.7	20		
TCC-Eastern - 24	Loader Operator	26909.2	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Man Transport Truck Operator	27882.6	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Master Mechanic	13620.8	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Mechanic / Welder	81587.9	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Miner	227936.8	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Operating Engineer	26909.2	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Operator G2 Plant Operator	26909.2	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Segment Carrier Operator	211936.8	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Shaft Crane Operator	48635.0	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Shifter	29828.7	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	TBM Operator	59657.4	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Toplander	48635.0	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Utility Truck Operator	27882.6	20	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-24					
TCC-Eastern - 25	Bottomlander	958.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	Conveyor Belt Man	833.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	Crane Oiler	958.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	Electrician	3458.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	Hyd Crane Operator	750.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	Lead Miner	2125.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	Mechanic / Welder	3041.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	Miner	14250.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	Segment Carrier Operator	2000.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	Shaft Crane Operator	958.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	Shifter	2125.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	ST2G Mucker Operator	333.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	TBM Operator	2333.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	Toplander	958.3	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-25					
TCC-Eastern - 26	Bottomlander	37776.2	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Bulgang Foreman	32301.1	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Bulgang Laborer	107951.2	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Conveyor Belt Man	21590.4	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Crane Oiler	37776.2	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Dozer Operator	20852.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Fanline Carrier Operator	21183.1	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Flat Truck Driver	10626.2	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Hyd Crane Operator	21253.2	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Lead Miner	21590.4	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Loader Operator	20852.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Master Mechanic	10627.8	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Mechanic / Welder	64100.5	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Miner	167157.5	20		
TCC-Eastern - 26	Operating Engineer	20852.3	20		
TCC-Eastern - 26	Operator G2 Plant Operator	20852.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Segment Carrier Operator	162494.9	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Shaft Crane Operator	37776.2	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Shifter	21590.4	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	TBM Operator	43180.9	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Toplander	37776.2	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Utility Truck Operator	21674.5	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Man Transport Truck Operator	21674.5	20	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-26					
TCC-Eastern - 27	Bottomlander	1291.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Bulgang Foreman	83.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Bulgang Laborer	500.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Crane Oiler	679.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Electrician	1970.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Heavy Duty Mechanic Welder	83.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Forklift Operator	695.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Hyd Crane Operator	679.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Lead Miner	1291.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Master Mechanic	250.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Mechanic / Welder	1970.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Miner	6255.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Shaft Crane Operator	1374.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Shifter	1291.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Toplander	1291.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Utility Truck Operator	544.5	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-27					
TCC-Eastern - 28	Bottomlander	1337.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Bulgang Foreman	166.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Bulgang Laborer	667.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Crane Oiler	679.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Electrician	2016.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Flat Truck Driver	83.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Forklift Operator	741.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Heavy Duty Mechanic Welder	83.3	10	Sacramento to/from Twin Cities Complex	17

TCC-Eastern - 28	Hyd Crane Operator	846.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Lead Miner	1337.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Master Mechanic	250.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Mechanic / Welder	2100.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Miner	6583.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Shaft Crane Operator	1420.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Shifter	1337.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Toplander	1337.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Utility Truck Operator	700.0	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-28					
TCC-Eastern - 29	Bottomlander	216.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Carpenter Apprentice	239.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Carpenter Foreman	33.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Carpenter Journeyman	56.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Crane Oiler	216.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Electrical Foreman	11.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Electrician Journeyman	45.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Excavator Operator	216.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Iron Worker Journeyman Rebar/Struct	45.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Laborer G2 Concrete Laborer	1050.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Laborer G2 General	315.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Laborer G3 Dumpman	300.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Laborer G3 Flagman	1060.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Loader Operator	216.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Operating Engineer Foreman	1035.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Operator G2 Excavator 3.5 to 7.0 cy	2450.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Operator G2 Finish Blade	700.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Operator G3 Loader >4cy	800.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Operator G3a Cranes 45 t and under	22.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Operator G4 Dozer & Push Cat	3710.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Operator G4 Scraper	2150.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Operator G5 Compactor w-blade	500.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Operator G6 Tractor	810.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Shaft Crane Operator	216.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Teamster G2 Hwy ED 6-8cy, Water<7mgal	9525.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Teamster G3 Boom Truck	11.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Teamster G4 ED 25-65 Cy	700.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Toplander	216.9	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-29					

Marine Inventory for Twin Cities Complex - Eastern Tunnel Shaft
Options 10A, 1B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Twin Cities Complex - Eastern Tunnel Shaft
Options 10A, 1B

Code	# day	Locomotive Type	From Depot Site	Delivery Depot	Rail Cars	Rail Cars/Day	Main Railroad	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
TCC-Eastern - 23	105	Pre Cast Segment	Sacramento	Twin Cities Complex Sidetrack	382	3.64	UPRR						
TCC-Eastern - 24	2444	Pre Cast Segment	Sacramento	Twin Cities Complex Sidetrack	14146	5.79	UPRR						
TCC-Eastern - 25	65	Pre Cast Segment	Sacramento	Twin Cities Complex Sidetrack	96	1.48	UPRR						
TCC-Eastern - 26	1907	Pre Cast Segment	Sacramento	Twin Cities Complex Sidetrack	9319	4.89	UPRR						

Rail Activity for RTM to Southern Complex presented in Southern Complex workbooks

Helicopter Inventory for Twin Cities Complex - Eastern Tunnel Shaft
Options 10A, 1B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Twin Cities Complex - Eastern Tunnel Shaft
Options 10A, 1B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy) (not Concrete)	Fill (cy/day) (not Concrete)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
TCC-Eastern - 1	507	611	0.8								
TCC-Eastern - 2		29									
TCC-Eastern - 5		44		511417.6	11623	55878	1927				
TCC-Eastern - 6		289		2110546.8	7303						
TCC-Eastern - 7		149				737562	4950				
TCC-Eastern - 8		65		66.6	1						
TCC-Eastern - 9		18		13260	737						
TCC-Eastern - 10		81									
TCC-Eastern - 11		15		662.6	44						
TCC-Eastern - 12		93		95659	1029						
TCC-Eastern - 13		65		82398.5	1268						
TCC-Eastern - 16		65									
TCC-Eastern - 17		45									
TCC-Eastern - 19		14									
TCC-Eastern - 21		93									
TCC-Eastern - 24		2444									
TCC-Eastern - 25		65									
TCC-Eastern - 26		1907									
TCC-Eastern - 26		1907									
TCC-Eastern - 29	395	135	2.9								

**Demolition Assumptions for Twin Cities Complex - Eastern Tunnel Shaft
Options 10A, 1B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for New Hope Tract - Eastern Access Road

Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX G - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	NH-E Access -1	3/17/2026	3/18/2026	2	2	10
Embankment	NH-E Access -2	3/19/2026	3/20/2026	2	2	10
Culvert Pipe	NH-E Access -3	3/23/2026	3/23/2026	1	1	10
Subdrain System	NH-E Access -4	3/24/2026	3/25/2026	2	2	10
Road Base	NH-E Access -5	3/26/2026	3/27/2026	2	2	10
12-month - Intermediate Maintenance	NH-E Access -6	4/4/2028	4/13/2028	8	5	10
12-month - Final Maintenance	NH-E Access -7	4/4/2029	4/13/2029	8	5	10

Acres

0.84

Construction Schedule for New Hope - Eastern Tunnel Shaft						
Options 10A, 10B						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Clear and Grub	NH-Eastern - 1	4/4/2028	4/5/2028	1	1	10
Ground Improvement	NH-Eastern - 2	4/6/2028	6/14/2028	50	5	10
Raise Shaft Pad	NH-Eastern - 3	6/15/2028	10/18/2028	90	5	10
Excavate, Set Strips, & Place Guide Wall	NH-Eastern - 4	10/19/2028	11/3/2028	12	5	10
Place Guide Walls Concrete	NH-Eastern - 5	11/6/2028	11/7/2028	1	1	10
Excavate Slurry Wall & Place Concrete & Rebar	NH-Eastern - 6	11/8/2028	12/15/2028	38	7	24
Slurry Wall including Strip Forms and Place Rebar & Top Beam	NH-Eastern - 7	12/18/2028	1/23/2029	37	7	24
Excavate Shaft	NH-Eastern - 8	1/30/2029	3/13/2029	43	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	NH-Eastern - 9	3/14/2029	3/27/2029	13	7	24
Dewater Shaft	NH-Eastern - 10	3/28/2029	4/3/2029	7	7	24
Place TBM Cradle Rebar and Cradle Pour	NH-Eastern - 11	4/4/2029	4/11/2029	6	5	10
Breakout Slurry Wall for TBM	NH-Eastern - 12	4/12/2029	5/8/2029	19	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	NH-Eastern - 13	4/12/2029	8/1/2029	80	5	10
Place Shaft Cover	NH-Eastern - 14	8/1/2029	8/7/2029	5	5	10
Total Site Acres	10.7					

Offroad Equipment (Fossil Fuel) Inventory for New Hope - Eastern Tunnel Shaft
Options 10A, 10B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (If known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (If known)
NH-Eastern - 1	CAT D8 Dozer	Crawler Tractor	15.52	1	16	Diesel Tier 4 or Hybrid Dese	179	0.43		
NH-Eastern - 1	CAT Grader 16H - 16' Blade	Grader	15.52	1	16	Diesel	285	0.41		
NH-Eastern - 1	623G Scraper Elevate 21 CY	Scaper	31.04	1	31	Diesel	359	0.48		
NH-Eastern - 2	Air Compressor 375 CFM	Air Compressor	350	50	7	Diesel Tier 4	122	0.48		
NH-Eastern - 2	Grove RT Crane 30T	Crane	350	50	7	Diesel	160	0.29		
NH-Eastern - 2	DMM Deep Soil Mixer	Bore Drill Rig	350	50	7	Diesel	808	0.5		
NH-Eastern - 2	DMM Grout Mix Plant	Other Industrial Equipmen	350	50	7	Diesel	500	0.34		
NH-Eastern - 2	Case 590 SupN Loader	Rubber Tired Loaders	350	50	7	Diesel	110	0.36		
NH-Eastern - 3	CAT CB-634D Vibratory 84"	Rollers	759.8	90	8	Diesel	145	0.38		
NH-Eastern - 3	CAT Grader 16H	Graders	759.8	90	8	Diesel	285	0.41		
NH-Eastern - 3	CAT D8 Dozer	Crawler Tractor	759.8	90	8	Diesel	328	0.43		
NH-Eastern - 4	CAT Hyd Excavator 1CY	Excavator	6.5	12	1	Diesel	138	0.38		
NH-Eastern - 4	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	6.5	12	1	Diesel or Hybrid	130	0.36		
NH-Eastern - 6	1600 CFM Compressor Diesel	Air Compressor	234.5	38	6	Diesel Tier 4	540	0.48		
NH-Eastern - 6	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	234.5	38	6	Diesel or Hybrid	130	0.36		
NH-Eastern - 6	Hydraulic 55 Ton Crane	Crane	502.7	38	13	Diesel	350	0.29		
NH-Eastern - 6	Manitowoc 777 200 Ton Crane	Crane	502.7	38	13	Diesel	760	0.29		
NH-Eastern - 6	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	234.5	38	6	Diesel	8	0.56		
NH-Eastern - 7	250 CFM Compressor Diesel	Air Compressor	3.6	37	0.1	Diesel Tier 3	75	0.48		
NH-Eastern - 7	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	255.7	37	7	Diesel or Hybrid	130	0.36		
NH-Eastern - 7	CAT Hyd Excavator 1CY	Excavator	255.7	37	7	Diesel	138	0.38		
NH-Eastern - 7	Hydraulic Excavator to 3.5 tons = Kobelco SK48!	Excavator	255.7	37	7	Diesel	345	0.38		
NH-Eastern - 8	Manitowoc 777 200 Ton Crane	Crane	272.3	43	6	Diesel	760	0.29		
NH-Eastern - 9	Hydraulic 25 Ton Crane	Crane	83	13	6	Diesel	100	0.29		
NH-Eastern - 9	Hydraulic 40 Ton Crane	Crane	83	13	6	Diesel	300	0.29		
NH-Eastern - 9	Manitowoc 777 200 Ton Crane	Crane	120.5	13	9	Diesel	760	0.29		
NH-Eastern - 10	Hydraulic 15 Ton Crane	Crane	108.6	7	16	Diesel	100	0.29		
NH-Eastern - 11	250 CFM Compressor Diesel	Air Compressor	8.9	6	1	Diesel Tier 3	75	0.48		
NH-Eastern - 11	Manitowoc 777 200 Ton Crane	Crane	38.2	6	6	Diesel	760	0.29		
NH-Eastern - 12	250 CFM Compressor Diesel	Air Compressor	128.8	19	7	Diesel Tier 3	75	0.48		
NH-Eastern - 12	Manitowoc 777 200 Ton Crane	Crane	128.8	19	7	Diesel	760	0.29		
NH-Eastern - 13	250 CFM Compressor Diesel	Air Compressor	760	80	10	Diesel Tier 3	75	0.48		
NH-Eastern - 13	Hydraulic 9 Ton Crane	Crane	287.5	80	4	Diesel	85	0.29		
NH-Eastern - 13	Manitowoc 777 200 Ton Crane	Crane	110.7	80	1	Diesel	760	0.29		
NH-Eastern - 13	Manitowoc 999-275 Ton Crane	Crane	139.3	80	2	Diesel	900	0.29		
NH-Eastern - 14	Hydraulic 9 Ton Crane	Crane	5	5	1	Diesel	85	0.29		
NH-Eastern - 14	Hydraulic 40 Ton Crane	Crane	5	5	1	Diesel	300	0.29		
NH-Eastern - 14	CAT Forklift 5,500 LB	Aerial Lift	5	5	1	Diesel	63	0.31		
NH-Central - 14	250 CFM Compressor Diesel	Air Compressor	30	5	6	Diesel Tier 3	75	0.48		
NH-Central - 14	Manitowoc 777 200 Ton Crane	Crane	10	5	6	Diesel	760	0.29		
NH-Central - 14	Manitowoc 999-275 Ton Crane	Crane	20	5	4	Diesel	900	0.29		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

**Offroad Equipment (Electric) Inventory for New Hope - Eastern Tunnel Shaft
Options 10A, 10B**

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
NH-Eastern - 13	Axial Fan 114,000 CFM	65.1	80	50	41
NH-Eastern - 13	400A, Electric Welder	222.4	80	15	41.700
NH-Eastern - 2	90 kW Generator	830	50		
NH-Eastern -2	Water Pump 4"	830	50		
NH-Eastern-6	Slurry Wall Techniwell	234.5	38		
NH-Eastern-10	150 kw Generator	108.6	7		
NH-Eastern-10	Dewatering Pump 6:	434.3	7		
NH-Eastern-11	Conc Pump 100 cy/hr	8.9	6		
NH-Eastern-13	Conc Pump 100 cy/hr	348.7	80		
NH-Eastern-14	Conc Pump 100 cy/hr	20	5		

Vehicle Inventory for New Hope - Eastern Tunnel Shaft
Options 10A, 10B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
NH-Eastern - 1	Truck, Flatbed, 10T, Hwy	Grader and Scraper to and from Sacramento	2	2.5	0.6	4	2.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 1	Truck, Flatbed, 10T, Hwy	Crawler Tractor from Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 2	Pickup 1/2T 2 WD	Materials from Sacramento	50	830.0	0.6	1311	26	New Hope Shaft to/from Sacramento	19	38	Hybrid Gasoline	
NH-Eastern - 2	Truck Flatbed 4 T Highway	Materials from Sacramento	50	846.0	0.6	1336	27	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 2	Mechanic Truck	Materials from Sacramento	50	830.0	0.6	1311	26	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 2	Truck, Flatbed, 10T, Hwy	Crane, Trencher, & Other Equipment to and from Sacramento	2	3.8	0.6	6	3.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 2	Concrete Transit Mix Truck* 12cy	Concrete for Ground Improvement from Sacramento	50	110.9	0.5	208	4	New Hope Shaft to/from Sacramento	16	32	Diesel	
NH-Eastern - 3	Highway Dump Truck 18 CY	Materials from Sacramento	90	759.8	0.6	1200	13	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 3	Truck* End Dump* 16-20cy Hwy	Soil Material in Covered Trucks from Twin Cities Complex	90	1115.0	0.5	2230	25	New Hope Shaft to/from Twin Cities Complex	15	30	Diesel	
NH-Eastern - 3	Truck, Flatbed, 10T, Hwy	Grader and Roller to and from Sacramento	2	2.5	0.6	4	2.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 3	Truck, Flatbed, 10T, Hwy	Crawler Tractor to Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 3	Truck, Flatbed, 10T, Hwy	Rebar from Sacramento	90	0.6	0.6	1	0.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 4	Truck, Flatbed, 10T, Hwy	Excavator to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 4	Truck, Flatbed, 10T, Hwy	Loader from Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 4	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	12	38.0	0.6	60	5.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 5	Concrete Transit Mix Truck* 12cy	Concrete from Lambert Road Concrete Batch Plant	1	12.5	0.5	25	25	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Eastern - 6	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	38	134.3	0.6	212	6	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 6	Truck Flatbed 4 T Highway	Rebar from Sacramento	38	19.6	0.6	31	1	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 6	Concrete Transit Mix Truck* 12cy	Concrete from Lambert Road Concrete Batch Plant	38	309.5	0.5	619	16	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane and Other Equipment to and from Sacramento	2	2.5	0.6	4	2.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane from Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 7	Truck, Flatbed, 10T, Hwy	Loader to Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 7	Truck Flatbed 4 T Highway	Rebar from Sacramento	37	0.6	0.6	1	0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 7	Concrete Transit Mix Truck* 12cy	Concrete from Lambert Road Concrete Batch Plant	37	6.0	0.5	12	0	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Eastern - 9	Truck Flatbed 4 T Highway	Rebar from Sacramento	13	5.1	0.6	8	1	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 9	Concrete Transit Mix Truck* 12cy	Concrete from Lambert Road Concrete Batch Plant	13	262.5	0.5	525	40	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Eastern - 9	Truck, Flatbed, 10T, Hwy	Cranes to and from Sacramento	2	2.5	0.6	4	2.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 10	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 11	Truck Flatbed 4 T Highway	Rebar from Sacramento	6	0.6	0.6	1	0.2	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 11	Concrete Transit Mix Truck* 12cy	Concrete from Lambert Road Concrete Batch Plant	6	19.0	0.5	38	6	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Eastern - 13	Truck Flatbed 4 T Highway	Rebar from Sacramento	80	1.3	0.6	2	0.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 13	Concrete Transit Mix Truck* 12cy	Concrete from Lambert Road Concrete Batch Plant	80	198.0	0.5	396	5	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 14	Highway Flatbed 10 Ton	Materials from Sacramento	5	30.3	0.6	48	10	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 14	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site										Miles On-Site		
NH-Eastern - 4	CAT 730 Rear Dump	Dumper	12	20.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		101	Diesel or Hybrid	
NH-Eastern - 6	CAT 730 Rear Dumbo	Dumper	38	267.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1337	Diesel or Hybrid	
NH-Eastern - 6	Articulated Rear Dumbo 22 CY/CAT 730	Dumper	38	267.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1337	Diesel or Hybrid	
NH-Eastern - 6	Concrete Pump Truck	Off-Highway Truck	38	469.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2349	Diesel	

Employees Required to New Hope - Eastern Tunnel Shaft
Options 10A, 10B

Code	Employee Type	Hours	# WorkDay		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
NH-Eastern - 1	Dozer Operator	15.5	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 1	General Foreman	7.8	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 1	Grader Operator	15.5	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 1	Operator G4 Grade Check	7.8	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 1	Grader 16H - 16' Blade	15.52	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 1	Scraper Operator	31	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-1						
NH-Eastern - 2	Laborer G2 General	2490	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 2	Operator G3a Crane	830	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 2	Operator G3 BH Loader	830	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 2	Operating Engineer	830	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 2	Operator G4 Grade Check	830	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 2	Operator G4 Heavy Duty Mechanic	830	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 2	Operator G2 Plant Operator	1660	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 2	Teamster G1 Hwy	830	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 2	Teamster G2 Hwy	830	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-2						
NH-Eastern - 3	Compactor Operator	759.8	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 3	Dozer Operator	759.8	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 3	Grade Setter / Checker	759.8	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 3	Grader Operator	759.8	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 3	Truck Driver	759.8	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-3						
NH-Eastern - 4	Carpenter	463.1	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 4	Carpenter Foreman	115.8	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 4	Excavator Operator	6.5	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 4	Lead Miner	6.5	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 4	Loader Operator	6.5	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 4	Miner	6.5	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 4	Shifter	6.5	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 4	Truck Driver	19.5	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-4						
NH-Eastern - 5	General Laborer	11.8	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 5	Carpenter	23.7	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 5	Carpenter Foreman	5.9	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-5						
NH-Eastern - 6	Crane Oiler	502.7	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	General Foreman	469	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	General Laborer	2597.7	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	Hyd Crane Operator	502.7	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	Iron Worker	2681.7	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	Iron Worker Foreman	536.3	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	Lead Miner	234.9	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	Mechanic Welder	469	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	Miner	1878.9	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	Shaft Crane Operator	502.7	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	Shifter	771.2	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	Loader Operator	234.5	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	Truck Driver	234.5	24		Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-6						
NH-Eastern - 7	Carpenter	36	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 7	Carpenter Foreman	9	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 7	Excavator Operator	255.7	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 7	General Foreman	255.7	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 7	General Laborer	798.8	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 7	Iron Worker	55.1	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 7	Iron Worker Foreman	13.8	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 7	Loader Operator	255.7	24		Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-7						
NH-Eastern - 8	Shaft Crane Operator	272.3	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 8	Toplander	272.3	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 8	Crane Oiler	272.3	24		Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-8						
NH-Eastern - 9	Bottomlander	120.5	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 9	Hyd Crane Operator	122.1	24		Sacramento to/from New Hope Shaft	19

NH-Eastern - 9	Iron Worker	1276.8	24	Sacramento to/from New Hope Shaft	19
NH-Eastern - 9	Iron Worker Foreman	159.6	24	Sacramento to/from New Hope Shaft	19
NH-Eastern - 9	Lead Miner	20.8	24	Sacramento to/from New Hope Shaft	19
NH-Eastern - 9	Miner	485.3	24	Sacramento to/from New Hope Shaft	19
NH-Eastern - 9	Shifter	180.4	24	Sacramento to/from New Hope Shaft	19
NH-Eastern - 9	Toplander	276.9	24	Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-9					
NH-Eastern - 10	Hyd Crane Operator	108.6	24	Sacramento to/from New Hope Shaft	19
NH-Eastern - 10	Lead Miner	108.6	24	Sacramento to/from New Hope Shaft	19
NH-Eastern - 10	Miner	868.6	24	Sacramento to/from New Hope Shaft	19
NH-Eastern - 10	Shifter	108.6	24	Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-10					
NH-Eastern - 11	Crane Oiler	38.2	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 11	Electrician	8.9	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 11	Iron Worker	234.5	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 11	Iron Worker Foreman	29.3	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 11	Lead Miner	8.9	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 11	Mechanic Welder	8.9	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 11	Miner	129.9	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 11	Shaft Crane Operator	38.2	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 11	Shifter	38.2	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 11	Toplander	38.2	10	Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-11					
NH-Eastern - 12	Bottomlander	128.8	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 12	Crane Oiler	128.8	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 12	Iron Worker	1030.7	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 12	Iron Worker Foreman	128.8	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 12	Shaft Crane Operator	128.8	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 12	Toplander	128.8	10	Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-12					
NH-Eastern - 13	Bottomlander	111	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 13	Concrete Pump Operator	69.8	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 13	Crane Oiler	194	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 13	Electrician	287.6	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 13	Hyd Crane Operator	287.5	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 13	Lead Miner	760	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 13	Mechanic / Welder	912.5	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 13	Miner	5082	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 13	Shaft Crane Operator	250	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 13	Shifter	760	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 13	Toplander	250	10	Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-13					
NH-Eastern - 14	Bullgang Foreman	30.3	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 14	Bullgang Laborer	60.6	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 14	Mechanic / Welder	118.1	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 14	Hyd Crane Operator	60.6	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 14	Flat Truck Driver	30.3	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Bottomlander	39.4	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Concrete Pump Operator	48.7	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Crane Oiler	97.2	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Lead Miner	136.5	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Miner	118.1	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Shaft Crane Operator	118.1	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Shifter	118.1	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Toplander	118.1	10	Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-14					

Marine Inventory for New Hope - Eastern Tunnel Shaft
Options 10A, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for New Hope - Eastern Tunnel Shaft
Options 10A, 10B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

Helicopter Inventory for New Hope - Eastern Tunnel Shaft
Options 10A, 10B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for New Hope - Eastern Tunnel Shaft
Options 10A, 10B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
NH-Eastern - 1	10.7	1	11	3910	3910						
NH-Eastern - 3		90				33440.4	372				
NH-Eastern - 5		1		425.6	426						
NH-Eastern - 6		38		5871.5	155						
NH-Eastern - 8		43		29964.5	697						

**Demolition Assumptions for New Hope - Eastern Tunnel Shaft
Options 10A, 10B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Canal Ranch Tract - Eastern Access Road

Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX G - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	CR-E Access -1	4/15/2026	4/20/2026	4	4	10
Embankment	CR-E Access -2	4/21/2026	4/27/2026	5	5	10
Culvert Pipe	CR-E Access -3	4/28/2026	4/28/2026	1	1	10
Subdrain System	CR-E Access -4	4/29/2026	5/8/2026	8	5	10
Road Base	CR-E Access -5	5/11/2026	5/15/2026	5	5	10
12-month - Intermediate Maintenance	CR-E Access -6	4/4/2028	4/13/2028	8	5	10
12-month - Final Maintenance	CR-E Access -7	4/4/2029	4/13/2029	8	5	10

Acres

3.2

Construction Schedule for Canal Ranch - Eastern Tunnel Shaft						
Options 10A, 10B						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Clear and Grub	CR-Eastern - 1	10/19/2028	10/20/2028	2	2	10
Ground Improvement	CR-Eastern - 2	11/13/2028	12/29/2028	34	5	10
Raise Shaft Pad	CR-Eastern - 3	1/1/2029	7/27/2029	148	5	10
Excavate, Set Strips, & Place Guide Wall	CR-Eastern - 4	7/30/2029	8/14/2029	12	5	10
Place Guide Walls Concrete	CR-Eastern - 5	8/15/2029	8/16/2029	2	2	10
Excavate Slurry Wall & Place Concrete & Rebar	CR-Eastern - 6	8/17/2029	9/25/2029	40	7	24
Slurry Wall including Strip Forms and Place Rebar & Top Beam	CR-Eastern - 7	9/26/2029	11/7/2029	43	7	24
Excavate Shaft	CR-Eastern - 8	11/8/2029	12/17/2029	40	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	CR-Eastern - 9	12/18/2029	12/31/2029	14	7	24
Dewater Shaft	CR-Eastern - 10	1/1/2030	1/7/2030	7	7	24
Place TBM Cradle Rebar and Cradle Pour	CR-Eastern - 11	1/8/2030	1/15/2030	6	5	10
Breakout Slurry Wall for TBM	CR-Eastern - 12	1/16/2030	2/11/2030	19	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	CR-Eastern - 13	1/16/2030	4/29/2030	75	5	10
Place Shaft Cover	CR-Eastern - 14	4/29/2030	5/7/2030	7	5	10
Total Site Acres	10.6					

Offroad Equipment (Fossil Fuel) Inventory for Canal Ranch - Eastern Tunnel Shaft
Options 10A, 10B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
CR-Eastern - 1	CAT D8 Dozer	Crawler Tractor	16.92	2	8	Diesel Tier 4 or Hybrid Diesel	179	0.43		
CR-Eastern - 1	CAT Grader 16H - 16' Blade	Grader	16.92	2	8	Diesel	285	0.41		
CR-Eastern - 1	623G Scraper Elevate 21 CY	Scaper	33.84	2	17	Diesel	359	0.48		
CR-Eastern - 2	Air Compressor 375 CFM	Air Compressor	34	34	1	Diesel Tier 4	122	0.48		
CR-Eastern - 2	Grove RT Crane 30T	Crane	34	34	1	Diesel	160	0.29		
CR-Eastern - 2	DMM Deep Soil Mixer	Bore Drill Rig	34	34	1	Diesel	522	0.5		
CR-Eastern - 2	DMM Grout Mix Plant	Other Industrial Equipmen	34	34	1	Diesel	500	0.34		
CR-Eastern - 2	Portable 90 Kw Diesel	Generators	34	34	<1	Diesel Tier 4	158	0.74		
CR-Eastern - 2	Case 590 SupN Loader	Rubber Tired Loaders	12	34	1	Diesel	110	0.36		
CR-Eastern - 2	Water Pump 4" Electric	Pumps	70	34	2	Diesel	10	0.74		
CR-Eastern - 3	CAT CB-634D Vibratory 84"	Rollers	678.9	148	5	Diesel	145	0.38		
CR-Eastern - 3	CAT Grader 16H	Graders	678.9	148	5	Diesel	285	0.41		
CR-Eastern - 3	CAT D8 Dozer	Crawler Tractor	678.9	148	5	Diesel	328	0.43		
CR-Eastern - 4	CAT Hyd Excavator 1CY	Excavator	6.5	12	1	Diesel	138	0.38		
CR-Eastern - 4	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	6.5	12	1	Diesel or Hybrid	130	0.36		
CR-Eastern - 6	1600 CFM Compressor Diesel	Air Compressor	234.5	40	6	Diesel Tier 4	540	0.48		
CR-Eastern - 6	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	234.5	40	6	Diesel or Hybrid	130	0.36		
CR-Eastern - 6	Hydraulic 55 Ton Crane	Crane	502.7	40	13	Diesel	350	0.29		
CR-Eastern - 6	Manitowoc 777 200 Ton Crane	Crane	502.7	40	13	Diesel	760	0.29		
CR-Eastern - 6	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	234.5	40	6	Diesel	8	0.56		
CR-Eastern - 6	Slurry Wall Techniwell	Pumps	234.5	40	6	Diesel	500	0.74		
CR-Eastern - 7	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	255.7	43	6	Diesel or Hybrid	130	0.36		
CR-Eastern - 7	250 CFM Compressor Diesel	Air Compressor	3.6	43	0.1	Diesel Tier 3	75	0.48		
CR-Eastern - 7	CAT Hyd Excavator 1CY	Excavator	255.7	43	6	Diesel	138	0.38		
CR-Eastern - 7	Hydraulic Excavator to 3.5 tons = Kobelco SK485	Excavator	255.7	43	6	Diesel	345	0.38		
CR-Eastern - 8	Manitowoc 777 200 Ton Crane	Crane	254.7	40	6	Diesel	760	0.29		
CR-Eastern - 9	Manitowoc 777 200 Ton Crane	Crane	120.5	14	9	Diesel	760	0.29		
CR-Eastern - 9	Hydraulic 40 Ton Crane	Crane	39.1	14	3	Diesel	300	0.29		
CR-Eastern - 9	Hydraulic 25 Ton Crane	Crane	83	14	6	Diesel	100	0.29		
CR-Eastern - 10	Dewater Pump 6"	Pump	434.3	7	62	Diesel	50	0.74		
CR-Eastern - 10	150 KW Diesel Generator	Generator	108.6	7	16	Diesel Tier 4	183	0.74		
CR-Eastern - 10	Hydraulic 15 Ton Crane	Crane	108.6	7	16	Diesel	100	0.29		
CR-Eastern - 11	Manitowoc 777 200 Ton Crane	Crane	94.7	6	16	Diesel	760	0.29		
CR-Eastern - 11	250 CFM Compressor Diesel	Air Compressor	65.4	6	11	Diesel Tier 3	75	0.48		
CR-Eastern - 11	Trailer Conc Pump 100 CY HR	Pump	65.4	6	11	Diesel	200	0.74		
CR-Eastern - 12	250 CFM Compressor Diesel	Air Compressor	107.7	19	6	Diesel Tier 3	75	0.48		
CR-Eastern - 12	Manitowoc 777 200 Ton Crane	Crane	107.7	19	6	Diesel	760	0.29		
CR-Eastern - 13	250 CFM Compressor Diesel	Air Compressor	692.1	75	9	Diesel Tier 3	75	0.48		
CR-Eastern - 13	Hydraulic 9 Ton Crane	Crane	287.5	75	4	Diesel	85	0.29		
CR-Eastern - 13	Manitowoc 777 200 Ton Crane	Crane	54.3	75	1	Diesel	760	0.29		
CR-Eastern - 13	Manitowoc 999-275 Ton Crane	Crane	127.9	75	2	Diesel	900	0.29		
CR-Eastern - 13	Trailer Conc Pump 100 CY HR	Pump	280.8	75	4	Diesel	200	0.74		
CR-Eastern - 14	Hydraulic 9 Ton Crane	Crane	14	7	2	Diesel	85	0.29		
CR-Eastern - 14	Hydraulic 40 Ton Crane	Crane	14	7	2	Diesel	300	0.29		
CR-Eastern - 14	CAT Forklift 5,500 LB	Aerial Lift	14	7	2	Diesel	63	0.31		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Canal Ranch - Eastern Tunnel Shaft
Options 10A, 10B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
CR-Eastern - 13	Axial Fan 114,000 CFM	65.1	75	50	43
CR-Eastern - 13	400A, Electric Welder	222.4	7	15	476.571

Vehicle Inventory for Canal Ranch - Eastern Tunnel Shaft
Options 10A, 10B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/Trip	# of Vehicles Trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
CR-Eastern - 1	Truck, Flatbed, 10T, Hwy	Grader and Scraper to and from Sacramento	2	4.1	1.0	4	2.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 1	Truck, Flatbed, 10T, Hwy	Crawler Tractor from Sacramento	1	1.0	1.0	1	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 2	Pickup 1/2T 2 WD	Materials from Sacramento	34	62.9	1.0	61	2	Canal Ranch Shaft to/from Sacramento	31	62	Hybrid Gasoline	
CR-Eastern - 2	Truck Flatbed 4 T Highway	Materials from Sacramento	34	62.9	1.0	61	2	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 2	Mechanic Truck	Materials from Sacramento	34	62.9	1.0	61	2	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 2	Mechanic Truck	Materials from Sacramento	34	87.8	1.0	85	3	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 2	Concrete Transit Mix Truck 12cy	Concrete from Sacramento	34	16.5	1.0	16	0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 2	Truck, Flatbed, 10T, Hwy	Crane, Trencher, & Other Equipment to and from Sacramento	2	6.2	1.0	6	3.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 3	Highway Dump Truck 18 CY	Materials from Sacramento	148	678.9	1.0	657	4	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 3	Truck End Dump 16-30cy Hwy	Soil Material in Covered Trucks from Twin Cities Complex	148	738.8	0.4	1705	12	Canal Ranch Shaft to/from Twin Cities Complex	13	26	Diesel	
CR-Eastern - 3	Truck, Flatbed, 10T, Hwy	Grader and Roller to and from Sacramento	2	4.1	1.0	4	2.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 3	Truck, Flatbed, 10T, Hwy	Crawler Tractor to Sacramento	1	1.0	1.0	1	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 4	Truck, Flatbed, 10T, Hwy	Excavator to and from Sacramento	2	2.1	1.0	2	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 4	Truck, Flatbed, 10T, Hwy	Loader from Sacramento	1	1.0	1.0	1	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 5	Truck Flatbed 4 T Highway	Rebar from Sacramento	2	1.0	1.0	1	1	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 5	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road Concrete Batch Plant	2	7.8	0.4	18	9	Canal Ranch Shaft to/from Lambert Road Concrete Batch Plant	13	26	Diesel	
CR-Eastern - 6	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	40	152.9	1.0	148	4	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 6	Truck Flatbed 4 T Highway	Rebar from Sacramento	40	22.7	1.0	22	1	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 6	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road Concrete Batch Plant	40	187.2	0.4	432	11	Canal Ranch Shaft to/from Lambert Road Concrete Batch Plant	13	26	Diesel	
CR-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane and Other Equipment to and from Sacramento	2	4.1	1.0	4	2.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane from Sacramento	1	1.0	1.0	1	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 7	Truck, Flatbed, 10T, Hwy	Loader to Sacramento	1	1.0	1.0	1	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 7	Truck Flatbed 4 T Highway	Rebar from Sacramento	43	1.0	1.0	1	0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 7	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road Concrete Batch Plant	43	3.9	0.4	9	0	Canal Ranch Shaft to/from Lambert Road Concrete Batch Plant	13	26	Diesel	
CR-Eastern - 8	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road Concrete Batch Plant	40	4.8	0.4	11	0	Canal Ranch Shaft to/from Lambert Road Concrete Batch Plant	13	26	Diesel	
CR-Eastern - 9	Truck Flatbed 4 T Highway	Rebar from Sacramento	14	6.2	1.0	6	0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 9	Concrete Transit Mix Truck 12cy	Tremie Concrete from Lambert Road Concrete Batch Plant	14	158.6	0.4	366	26	Canal Ranch Shaft to/from Lambert Road Concrete Batch Plant	13	26	Diesel	
CR-Eastern - 9	Truck, Flatbed, 10T, Hwy	Cranes to and from Sacramento	2	4.1	1.0	4	2.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 10	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	2.1	1.0	2	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 11	Truck Flatbed 4 T Highway	Rebar from Sacramento	6	1.0	1.0	1	0.2	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 11	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road Concrete Batch Plant	6	11.7	0.4	27	5	Canal Ranch Shaft to/from Lambert Road Concrete Batch Plant	13	26	Diesel	
CR-Eastern - 13	Truck Flatbed 4 T Highway	Rebar from Sacramento	75	2.1	1.0	2	0.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 13	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road Concrete Batch Plant	75	85.5	0.5	171	2	Canal Ranch Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
CR-Eastern - 13	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road Concrete Batch Plant	75	44.5	0.5	89	1	Canal Ranch Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
CR-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to Sacramento	2	1.0	1.0	1	0.5	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	2.1	1.0	2	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 14	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	2.1	1.0	2	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 14	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	7	54.3	1.0	53	8	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site										Miles On-Site		
CR-Eastern - 4	CAT 730 Rear Dump	Dumper	12	20.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		101	Diesel or Hybrid	
CR-Eastern - 6	CAT 730 Rear Dump	Dumper	40	267.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1337	Diesel or Hybrid	
CR-Eastern - 6	Articulated Rear Dump 22 CY/CAT 730	Dumper	40	267.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1337	Diesel or Hybrid	
CR-Eastern - 6	Concrete Pump Truck	Off-Highway Truck	40	469.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2349	Diesel	

Employees Required to Canal Ranch - Eastern Tunnel Shaft
Options 10A, 10B

Code	Employee Type	Hours	# WorkDay		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
CR-Eastern - 1	Dozer Operator	16.92	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 1	General Foreman	8.46	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 1	Grader Operator	16.92	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 1	Operator G4 Grade Check	8.46	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 1	Scraper Operator	33.84	10		Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-1						
CR-Eastern - 2	Laborer G2 General	188.7	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 2	Operating Engineer	62.9	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 2	Operator G2 Plant Operator	125.8	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 2	Operator G3 BH Loader	62.9	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 2	Operator G3a Crane	62.9	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 2	Operator G4 Grade Check	62.9	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 2	Operator G4 Heavy Duty Mechanic	62.9	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 2	Teamster G1 Hwy	62.9	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 2	Teamster G2 Hwy	62.9	10		Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-2						
CR-Eastern - 3	Compactor Operator	678.9	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 3	Dozer Operator	678.9	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 3	Grade Setter / Checker	678.9	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 3	Grader Operator	678.9	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 3	Truck Driver	678.9	10		Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-3						
CR-Eastern - 4	Carpenter	383.7	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 4	Carpenter Foreman	95.9	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 4	Excavator Operator	6.5	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 4	Lead Miner	6.5	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 4	Loader Operator	6.5	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 4	Miner	6.5	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 4	Shifter	6.5	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 4	Truck Driver	19.5	10		Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-4						
CR-Eastern - 5	Carpenter	103.1	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 5	Carpenter Foreman	25.8	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 5	General Laborer	11.8	10		Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-5						
CR-Eastern - 6	Crane Oiler	502.7	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	General Foreman	469	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	General Laborer	2597.7	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Hyd Crane Operator	502.7	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Iron Worker	2681.7	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Iron Worker Foreman	536.3	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Lead Miner	234.9	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Loader Operator	234.5	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Mechanic Welder	469	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Miner	1878.9	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Shaft Crane Operator	502.7	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Shifter	771.2	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Truck Driver	234.5	24		Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-6						
CR-Eastern - 7	Carpenter	36	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 7	Carpenter Foreman	9	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 7	Excavator Operator	255.7	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 7	General Foreman	255.7	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 7	General Laborer	798.8	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 7	Iron Worker	55.1	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 7	Iron Worker Foreman	13.8	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 7	Loader Operator	255.7	24		Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-7						
CR-Eastern - 8	Crane Oiler	254.7	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 8	Shaft Crane Operator	254.7	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 8	Toplander	254.7	24		Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-8						
CR-Eastern - 9	Bottomlander	120.5	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 9	Hyd Crane Operator	122.1	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 9	Iron Worker	12768.8	24		Sacramento to/from Canal Ranch Shaft	31

CR-Eastern - 9	Iron Worker Foreman	159.6	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 9	Lead Miner	20.8	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 9	Miner	485.3	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 9	Shaft Crane Operator	120.5	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 9	Shifter	180.4	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 9	Toplander	276.9	24	Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-9					
CR-Eastern - 10	Hyd Crane Operator	108.6	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 10	Lead Miner	108.6	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 10	Miner	868.6	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 10	Shifter	108.6	24	Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-10					
CR-Eastern - 11	Bottomlander	56.5	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Crane Oiler	38.2	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Electrician	8.9	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Iron Worker	234.5	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Iron Worker Foreman	29.3	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Lead Miner	65.4	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Mechanic Welder	65.4	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Miner	581.5	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Shaft Crane Operator	94.7	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Shifter	94.7	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Toplander	94.7	10	Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-11					
CR-Eastern - 12	Bottomlander	107.7	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 12	Crane Oiler	107.7	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 12	Iron Worker	861.6	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 12	Iron Worker Foreman	107.7	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 12	Shaft Crane Operator	107.7	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 12	Toplander	107.7	10	Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-12					
CR-Eastern - 13	Bottomlander	54	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Concrete Pump Operator	58.4	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Crane Oiler	182	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Electrician	287.6	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Hyd Crane Operator	287.5	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Lead Miner	692.1	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Mechanic / Welder	856.1	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Miner	4539.1	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Shaft Crane Operator	182	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Shifter	692.1	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Toplander	182	10	Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-13					
CR-Eastern - 14	Bullgang Foreman	54.3	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 14	Bullgang Laborer	108.6	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 14	Flat Truck Driver	54.3	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 14	Hyd Crane Operator	108.6	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 14	Mechanic / Welder	54.3	10	Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-14					

Marine Inventory for Canal Ranch - Eastern Tunnel Shaft
Options 10A, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Canal Ranch - Eastern Tunnel Shaft
Options 10A, 10B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Canal Ranch - Eastern Tunnel Shaft
Options 10A, 10B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Canal Ranch - Eastern Tunnel Shaft
Options 10A, 10B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
CR-Eastern - 1	10.6	2	5	4262.6	2131						
CR-Eastern - 3		148				29879.2	202				
CR-Eastern - 4		12		425.6	35						
CR-Eastern - 5		2									
CR-Eastern - 6		40									
CR-Eastern - 7		43		5871.5	137						
CR-Eastern - 8		40		28031.3	701						

Demolition Assumptions for Canal Ranch - Eastern Tunnel Shaft
Options 10A, 10B

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Charter Way Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Excavation	CWPR-1	11/1/2026	11/12/2026	10	5	10
Culvert Pipe	CWPR-2	11/13/2026	11/13/2026	1	1	10
Subdrain System	CWPR-3	11/16/2026	11/16/2026	1	1	10
Road Base	CWPR-4	11/17/2026	11/19/2026	3	3	10
Asphalt Paving	CWPR-5	11/20/2026	11/24/2026	5	5	10
Electrical, Striping, and K-Rail Installation	CWPR-6	11/25/2026	11/25/2026	1	5	10

Acres2.4

Construction Schedule for Terminous Island - Eastern Access Road

Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX G - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	TI-E Access -1	3/30/2026	4/1/2026	3	3	10
Culvert Pipe	TI-E Access -2	4/2/2026	4/2/2026	1	1	10
Subdrain System	TI-E Access -3	4/3/2026	4/10/2026	6	5	10
Road Base	TI-E Access -4	4/13/2026	4/14/2026	2	2	10
Asphalt	TI-E Access -5	4/15/2026	4/20/2026	5	5	10
KRail and Signs	TI-E Access -6	4/21/2026	4/27/2026	5	5	10

Acres

4.8

Construction Schedule for Terminous - Eastern Tunnel Shaft						
Options 10A, 10B						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Clear and Grub	TI-Eastern - 1	5/14/2031	5/20/2031	5	5	10
Not Used	TI-Eastern - 2					
Raise Shaft Pad	TI-Eastern - 3	11/12/2031	9/2/2032	211	5	10
Excavate, Set Strips, & Place Guide Wall	TI-Eastern - 4	9/3/2032	9/3/2032	1	1	10
Place Guide Walls Concrete	TI-Eastern - 5	9/21/2032	9/22/2032	2	2	10
Excavate Slurry Wall & Place Concrete & Rebar	TI-Eastern - 6	9/23/2032	11/1/2032	40	7	24
Slurry Wall including Strip Forms and Place Rebar & Top Beam	TI-Eastern - 7	11/2/2032	12/14/2032	43	7	24
Excavate Shaft	TI-Eastern - 8	12/8/2032	1/27/2033	50	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	TI-Eastern - 9	1/28/2033	2/10/2033	13	7	24
Dewater Shaft	TI-Eastern - 10	2/11/2033	2/17/2033	7	7	24
Place TBM Cradle Rebar and Cradle Pour	TI-Eastern - 11	2/18/2033	2/25/2033	6	5	10
Breakout Slurry Wall for TBM	TI-Eastern - 12	2/28/2033	3/24/2033	19	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	TI-Eastern - 13	3/25/2033	5/12/2033	35	5	10
Place Shaft Cover	TI-Eastern - 14	9/9/2033	9/17/2033	6	5	10
Total Site Acres	13.3					

Offroad Equipment (Fossil Fuel) Inventory for Terminus - Eastern Tunnel Shaft
Options 10A, 10B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (If known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (If known)
TI-Eastern - 1	CAT D8 Dozer	Crawler Tractor	33.7	5	7	Diesel Tier 4 or Hybrid Dese	179	0.43		
TI-Eastern - 1	CAT Grader 16H - 16' Blade	Grader	33.7	5	7	Diesel	285	0.41		
TI-Eastern - 1	623G Scraper Elevate 21 CY	Scraper	67.5	5	14	Diesel	359	0.48		
TI-Eastern - 3	CAT CB-634D Vibratory 84"	Rollers	1479.2	211	7	Diesel	145	0.38		
TI-Eastern - 3	CAT Grader 16H	Graders	1479.2	211	7	Diesel	285	0.41		
TI-Eastern - 3	CAT D8 Dozer	Crawler Tractor	1479.2	211	7	Diesel	328	0.43		
TI-Eastern - 4	CAT Hyd Excavator 1CY	Excavator	6.5	1	7	Diesel	138	0.38		
TI-Eastern - 4	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	6.5	1	7	Diesel or Hybrid	130	0.36		
TI-Eastern - 6	1600 CFM Compressor Diesel	Air Compressor		40	0	Diesel Tier 4	540	0.48		
TI-Eastern - 6	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	268.2	40	7	Diesel or Hybrid	130	0.36		
TI-Eastern - 6	Hydraulic 55 Ton Crane	Crane	536.3	40	13	Diesel	350	0.29		
TI-Eastern - 6	Manitowoc 777 200 Ton Crane	Crane	536.3	40	13	Diesel	760	0.29		
TI-Eastern - 6	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	268.2	40	7	Diesel	8	0.56		
TI-Eastern - 6	Slurry Wall Techniwell	Pumps	268.2	40	7	Diesel	500	0.74		
TI-Eastern - 7	250 CFM Compressor Diesel	Air Compressor	21	43	0.5	Diesel Tier 3	75	0.48		
TI-Eastern - 7	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	255.7	43	6	Diesel or Hybrid	130	0.36		
TI-Eastern - 7	CAT Forklift 5,500 LB	Aerial Lifts	17.4	43	0	Diesel	63	0.31		
TI-Eastern - 7	CAT Hyd Excavator 1CY	Excavator	273.1	43	6	Diesel	138	0.38		
TI-Eastern - 7	Hydraulic 40 Ton Crane	Crane	17.4	43	0	Diesel	300	0.38		
TI-Eastern - 7	Hydraulic 9 Ton Crane	Crane	17.4	43	0	Diesel	85	0.38		
TI-Eastern - 7	Hydraulic Excavator to 3.5	Excavator	255.7	43	6	Diesel	138	0.38		
TI-Eastern - 8	Manitowoc 777 200 Ton Crane	Crane	292.3	50	6	Diesel	760	0.29		
TI-Eastern - 9	Hydraulic 25 Ton Crane	Crane	83	13	6	Diesel	100	0.29		
TI-Eastern - 9	Hydraulic 40 Ton Crane	Crane	39.1	13	3	Diesel	300	0.29		
TI-Eastern - 9	Manitowoc 777 200 Ton Crane	Crane	120.5	13	9	Diesel	760	0.29		
TI-Eastern - 10	150 KW Diesel Generator	Generator	108.6	7	16	Diesel Tier 4	183	0.74		
TI-Eastern - 10	Dewater Pump 6"	Pump	434.6	7	62	Diesel	50	0.74		
TI-Eastern - 10	Hydraulic 15 Ton Crane	Crane	108.6	7	16	Diesel	100	0.29		
TI-Eastern - 11	250 CFM Compressor Diesel	Air Compressor	8.9	6	1	Diesel Tier 3	75	0.48		
TI-Eastern - 11	Manitowoc 777 200 Ton Crane	Crane	38.6	6	6	Diesel	760	0.29		
TI-Eastern - 11	Trailer Conc Pump 100 CY HR	Pump	8.9	6	1	Diesel	200	0.74		
TI-Eastern - 12	250 CFM Compressor Diesel	Air Compressor	325.7	19	17	Diesel Tier 3	75	0.48		
TI-Eastern - 12	Manitowoc 777 200 Ton Crane	Crane	325.7	19	17	Diesel	760	0.29		
TI-Eastern - 13	250 CFM Compressor Diesel	Air Compressor	736.1	35	21	Diesel Tier 3	75	0.48		
TI-Eastern - 13	Manitowoc 777 200 Ton Crane	Crane	110.7	35	3	Diesel	760	0.29		
TI-Eastern - 13	Manitowoc 999-275 Ton Crane	Crane	625.4	35	18	Diesel	900	0.29		
TI-Eastern - 13	Trailer Conc Pump 100 CY HR	Pump	369.1	35	11	Diesel	200	0.74		
TI-Eastern - 14	CAT Forklift 5,500 LB	Aerial Lift	54.3	6	9	Diesel	63	0.31		
TI-Eastern - 14	Hydraulic 40 Ton Crane	Crane	54.3	6	9	Diesel	300	0.29		
TI-Eastern - 14	Hydraulic 9 Ton Crane	Crane	54.3	6	9	Diesel	85	0.29		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Terminous - Eastern Tunnel Shaft
Options 10A, 10B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
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NOT NEEDED

Vehicle Inventory for Terminus - Eastern Tunnel Shaft
Options 10A, 10B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/Trip	# of Vehicles Trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
Ti-Eastern - 1	Truck, Flatbed, 10T, Hwy	Scraper to and from Stockton	2	1	0.6	2	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 1	Truck, Flatbed, 10T, Hwy	Dozer and Grader from Stockton	1	1	0.6	2	2.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 3	Highway Dump Truck 18 CY	Materials from Stockton	211	1479.2	0.6	2336	11	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 3	Truck/ End Dump/ 16-20cy/ Hwy	Soil Material in Covered Trucks from Twin Cities Complex	211	3618	0.8	4341	21	Terminus Shaft to/from Twin Cities Complex	25	50	Diesel	
Ti-Eastern - 3	Truck, Flatbed, 10T, Hwy	Roller to and from Stockton	2	1	0.6	2	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 3	Truck, Flatbed, 10T, Hwy	Dozer and Grader to Stockton	1	1	0.6	2	2.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern -4	Truck, Flatbed, 10T, Hwy	Excavator and Loader from Stockton	1	1	0.6	2	2.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 5	Truck Flatbed 4 T Highway	Rebar from Sacramento	2	1	1.3	1	1	Terminus Shaft to/from Sacramento	40	80	Diesel	
Ti-Eastern - 5	Concrete Transit Mix Truck* 12cy	Concrete from Lodi	2	11	0.4	25	13	Terminus Shaft to/from Lodi	13	26	Diesel	
Ti-Eastern - 6	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	40	283	1.3	212	5	Terminus Shaft to/from Sacramento	40	80	Diesel	
Ti-Eastern - 6	Truck Flatbed 4 T Highway	Rebar from Sacramento	40	41	1.3	31	1	Terminus Shaft to/from Sacramento	40	80	Diesel	
Ti-Eastern - 6	Concrete Transit Mix Truck* 12cy	Concrete from Lodi	40	306	0.4	706	18	Terminus Shaft to/from Lodi	13	26	Diesel	
Ti-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	1	0.6	2	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	1	0.6	1	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern -7	Truck, Flatbed, 10T, Hwy	Excavator and Loader to Stockton	1	1	0.6	2	2.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern -7	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	1	0.6	1	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern -7	Truck, Flatbed, 10T, Hwy	Excavator, Forklift, and Crane from and to Stockton	2	4	0.6	6	3.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern -7	Truck Flatbed 4 T Highway	Rebar from Sacramento	43	1	1.3	1	0	Terminus Shaft to/from Sacramento	40	80	Diesel	
Ti-Eastern -7	Concrete Transit Mix Truck* 12cy	Concrete from Lodi	43	5	0.4	12	0	Terminus Shaft to/from Lodi	13	26	Diesel	
Ti-Eastern -8	Truck Flatbed 4 T Highway	Rebar from Sacramento	50	9	1.3	7	0	Terminus Shaft to/from Sacramento	40	80	Diesel	
Ti-Eastern -8	Concrete Transit Mix Truck* 12cy	Concrete from Lodi	50	210	0.4	484	10	Terminus Shaft to/from Lodi	13	26	Diesel	
Ti-Eastern - 9	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	1	0.6	1	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 9	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	1	0.6	2	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 9	Truck Flatbed 4 T Highway	Rebar from Sacramento	13	1	1.3	1	0	Terminus Shaft to/from Sacramento	40	80	Diesel	
Ti-Eastern - 9	Concrete Transit Mix Truck* 12cy	Concrete from Lodi	13	16	0.4	38	3	Terminus Shaft to/from Lodi	13	26	Diesel	
Ti-Eastern - 10	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	1	0.6	2	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 11	Truck Flatbed 4 T Highway	Rebar from Sacramento	6	1	1.3	1	0.2	Terminus Shaft to/from Sacramento	40	80	Diesel	
Ti-Eastern - 11	Concrete Transit Mix Truck* 12cy	Concrete from Lodi	6	16	0.4	38	6	Terminus Shaft to/from Lodi	13	26	Diesel	
Ti-Eastern - 13	Truck Flatbed 4 T Highway	Rebar from Sacramento	35	1	1.3	1	0.0	Terminus Shaft to/from Sacramento	40	80	Diesel	
Ti-Eastern - 13	Concrete Transit Mix Truck* 12cy	Concrete from Lodi	35	184	0.4	425	12	Terminus Shaft to/from Lodi	13	26	Diesel	
Ti-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	1	0.6	1	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	1	0.6	2	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 14	Truck, Flatbed, 10T, Hwy	Excavator, Forklift, and two Cranes from and to Stockton	2	5	0.6	8	4.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site										Miles On-Site		
Ti-Eastern - 4	CAT 730 Rear Dump	Dumper	1	20.10	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		101	Diesel or Hybrid	
Ti-Eastern - 6	CAT 730 Rear Dump	Dumper	40	268	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1341	Diesel or Hybrid	
Ti-Eastern - 6	Articulated Rear Dump 22 CY/CAT 730	Dumper	40	268	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1341	Diesel or Hybrid	
Ti-Eastern - 6	Concrete Pumpo Truck	Off-Highway Truck	40	136	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2682	Diesel	
Ti-Eastern - 7	Highway Flatbed 10 Ton	Off-Highway Truck	43	17.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		87	Diesel	
Ti-Eastern - 14	Highway Flatbed 10 Ton	Off-Highway Truck	6	54.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		272	Diesel	

Employees Required to Terminus - Eastern Tunnel Shaft
Options 10A, 10B

Code	Employee Type	Hours	# WorkDay		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
TI-Eastern - 1	General Foreman	16.9	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 1	Dozer Operator	33.7	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 1	Grader Operator	33.7	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 1	Operator G4 Grade Check	16.9	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 1	Scraper Operator	67.5	10		Lodi to/from Terminus Shaft	13
TOTAL TI-Eastern-1						
TI-Eastern - 3	Compactor Operator	1479.2	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 3	Dozer Operator	1479.2	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 3	Grade Setter / Checker	1479.2	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 3	Grader Operator	1479.2	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 3	Truck Driver	1479.2	10		Lodi to/from Terminus Shaft	13
TOTAL TI-Eastern-3						
TI-Eastern - 4	Carpenter	383.7	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 4	Carpenter Foreman	95.9	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 4	Excavator Operator	6.5	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 4	Lead Miner	6.5	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 4	Loader Operator	6.5	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 4	Miner	6.5	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 4	Shifter	6.5	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 4	Truck Driver	19.5	10		Lodi to/from Terminus Shaft	13
TOTAL TI-Eastern-4						
TI-Eastern - 5	Carpenter	103.1	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 5	Carpenter Foreman	25.8	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 5	General Laborer	11.8	10		Lodi to/from Terminus Shaft	13
TOTAL TI-Eastern-5						
TI-Eastern - 6	Crane Oiler	536.3	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 6	General Foreman	536.3	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 6	General Laborer	2949.9	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 6	Hyd Crane Operator	536.3	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 6	Iron Worker	2681.7	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 6	Iron Worker Foreman	536.3	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 6	Lead Miner	268.2	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 6	Loader Operator	268.2	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 6	Mechanic Welder	536.3	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 6	Miner	2145.4	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 6	Shaft Crane Operator	536.3	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 6	Shifter	804.5	24		Lodi to/from Terminus Shaft	13
TOTAL TI-Eastern-6						
TI-Eastern - 7	Bullgang Foreman	17.4	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	Bullgang Laborer	34.7	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	Carpenter	36	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	Carpenter Foreman	9	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	Excavator Operator	273.1	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	Flat Truck Driver	17.4	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	General Foreman	255.7	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	General Laborer	798.8	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	Hyd Crane Operator	34.7	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	Iron Worker	55.1	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	Iron Worker Foreman	13.8	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	Loader Operator	255.7	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	Mechanic / Welder	17.4	24		Lodi to/from Terminus Shaft	13
TOTAL TI-Eastern-7						
TI-Eastern - 8	Crane Oiler	292.3	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 8	Diver Contractor	292.3	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 8	Shaft Crane Operator	292.3	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 8	Toplander	292.3	24		Lodi to/from Terminus Shaft	13
TOTAL TI-Eastern-8						
TI-Eastern - 9	Bottomlander	120.5	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 9	Hyd Crane Operator	122.1	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 9	Iron Worker	1276.8	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 9	Iron Worker Foreman	159.6	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 9	Lead Miner	20.8	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 9	Miner	485.3	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 9	Shaft Crane Operator	120.5	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 9	Shifter	180.4	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 9	Toplander	276.9	24		Lodi to/from Terminus Shaft	13

TOTAL TI-Eastern-9

TI-Eastern - 10	Shifter	108.6	24	Lodi to/from Terminus Shaft	13
TI-Eastern - 10	Lead Miner	108.6	24	Lodi to/from Terminus Shaft	13
TI-Eastern - 10	Miner	868.6	24	Lodi to/from Terminus Shaft	13
TI-Eastern - 10	Hyd Crane Operator	108.6	24	Lodi to/from Terminus Shaft	13

TOTAL TI-Eastern-10

TI-Eastern - 11	Crane Oiler	38.6	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 11	Electrician	8.9	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 11	Iron Worker	237.4	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 11	Iron Worker Foreman	29.7	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 11	Lead Miner	8.9	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 11	Mechanic Welder	8.9	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 11	Miner	130.6	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 11	Shaft Crane Operator	38.6	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 11	Shifter	38.6	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 11	Toplander	38.6	10	Lodi to/from Terminus Shaft	13

TOTAL TI-Eastern-11

TI-Eastern - 12	Bottomlander	325.7	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 12	Crane Oiler	325.7	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 12	Iron Worker	2605.7	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 12	Iron Worker Foreman	325.7	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 12	Shaft Crane Operator	325.7	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 12	Toplander	325.7	10	Lodi to/from Terminus Shaft	13

TOTAL TI-Eastern-12

TI-Eastern - 13	Bottomlander	111	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 13	Concrete Pump Operator	312.7	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 13	Crane Oiler	680	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 13	Lead Miner	736.1	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 13	Mechanic / Welder	423.4	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 13	Miner	5780.3	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 13	Shaft Crane Operator	736	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 13	Shifter	736	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 13	Toplander	736	10	Lodi to/from Terminus Shaft	13

TOTAL TI-Eastern-13

TI-Eastern - 14	Bullgang Foreman	54.3	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 14	Bullgang Laborer	108.6	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 14	Mechanic / Welder	54.3	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 14	Hyd Crane Operator	108.6	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 14	Flat Truck Driver	54.3	10	Lodi to/from Terminus Shaft	13

TOTAL TI-Eastern-14

Marine Inventory for Terminous - Eastern Tunnel Shaft
Options 10A, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Terminous - Eastern Tunnel Shaft
Options 10A, 10B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

Helicopter Inventory for Terminous - Eastern Tunnel Shaft
Options 10A, 10B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Terminus - Eastern Tunnel Shaft
Options 10A, 10B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
Ti-Eastern - 1	13.3	5	3								
Ti-Eastern - 3		211				65106	309				
Ti-Eastern - 4		1		425.6	426						
Ti-Eastern - 6		40		6704.3	168						
Ti-Eastern - 8		50		32210	644						

**Demolition Assumptions for Terminous - Eastern Tunnel Shaft
Options 10A, 10B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for King Island - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX G - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Road Base	KI-E Access -1	2/9/2027	2/11/2027	4	4	10
12 month maintenance	KI-E Access -2	4/4/2028	4/14/2028	9	5	10
12 month maintenance	KI-E Access -3	4/4/2029	4/14/2029	9	5	10

Acres0.2

Construction Schedule for King I - Eastern Tunnel Shaft						
Options 10A, 10B						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMAKION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Clear and Grub	KI-Eastern - 1	2/27/2030	3/19/2030	15	5	10
Not Used	KI-Eastern - 2					
Raise Shaft Pad	KI-Eastern - 3	5/15/2030	5/13/2031	263	5	10
Excavate, Set Strips, & Place Guide Wall	KI-Eastern - 4	5/14/2031	5/29/2031	12	5	10
Place Guide Walls Concrete	KI-Eastern - 5	5/30/2031	6/2/2031	4	4	10
Excavate Slurry Wall & Place Concrete & Rebar	KI-Eastern - 6	6/3/2031	7/10/2031	38	7	24
Slurry Wall including Strip Forms and Place Rebar	KI-Eastern - 7	7/11/2031	8/22/2031	43	7	24
Excavate Shaft	KI-Eastern - 8	8/25/2031	10/1/2031	38	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	KI-Eastern - 9	10/2/2031	10/15/2031	14	7	24
Dewater Shaft	KI-Eastern - 10	10/16/2031	10/22/2031	7	7	24
Place TBM Cradle Rebar and Cradle Pour	KI-Eastern - 11	10/23/2031	10/30/2031	6	5	10
Breakout Slurry Wall for TBM	KI-Eastern - 12	10/31/2031	11/26/2031	19	5	10
Assemble & Place Buttress, Form, & Concrete for	KI-Eastern - 13	10/31/2031	2/19/2032	70	5	10
Place Shaft Cover	KI-Eastern - 14	2/19/2032	2/27/2032	6	5	10
Total Site Acres	12					

Offroad Equipment (Fossil Fuel) Inventory for King I - Eastern Tunnel Shaft
Options 10A, 10B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
KI-Eastern - 1	CAT D8 Dozer	Crawler Tractor	22.26	15	1	Diesel Tier 4 or Hybrid Diesel	179	0.43		
KI-Eastern - 1	CAT Grader 16H - 16' Blade	Grader	22.26	15	1	Diesel	285	0.41		
KI-Eastern - 1	623G Scraper Elevate 21 CY	Scraper	44.52	15	3	Diesel	359	0.48		
KI-Eastern - 3	CAT CB-634D Vibratory 84"	Rollers	1937.1	263	7	Diesel	145	0.38		
KI-Eastern - 3	CAT Grader 16H	Graders	1937.1	263	7	Diesel	285	0.41		
KI-Eastern - 3	CAT D8 Dozer	Crawler Tractor	1937.1	263	7	Diesel	328	0.43		
KI-Eastern - 4	CAT Hyd Excavator 1CY	Excavator	6.5	12	1	Diesel	138	0.38		
KI-Eastern - 4	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	6.5	12	1	Diesel or Hybrid	130	0.36		
KI-Eastern - 6	1600 CFM Compressor Diesel	Air Compressor	229.1	38	6	Diesel Tier 4	540	0.48		
KI-Eastern - 6	Hydraulic 55 Ton Crane	Crane	458.2	38	12	Diesel	350	0.29		
KI-Eastern - 6	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	229.1	38	6	Diesel or Hybrid	130	0.36		
KI-Eastern - 6	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	229.1	38	6	Diesel	8	0.56		
KI-Eastern - 6	Slurry Wall Techniwell	Pumps	229.1	38	6	Diesel	500	0.74		
KI-Eastern - 6	Manitowoc 777 200 Ton Crane	Crane	458.2	38	12	Diesel	760	0.29		
KI-Eastern - 7	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	255.7	43	6	Diesel or Hybrid	130	0.36		
KI-Eastern - 7	250 CFM Compressor Diesel	Air Compressor	4.3	43	0.1	Diesel Tier 3	75	0.48		
KI-Eastern - 7	Hydraulic Excavator to 3.5	Excavator	255.7	43	6	Diesel	138	0.38		
KI-Eastern - 7	CAT Hyd Excavator 1CY	Excavator	255.7	43	6	Diesel	138	0.38		
KI-Eastern - 8	Manitowoc 777 200 Ton Crane	Crane	272.3	38	7	Diesel	760	0.29		
KI-Eastern - 9	Manitowoc 777 200 Ton Crane	Crane	120.5	14	9	Diesel	760	0.29		
KI-Eastern - 9	Hydraulic 40 Ton Crane	Crane	39.1	14	3	Diesel	300	0.29		
KI-Eastern - 9	Hydraulic 25 Ton Crane	Crane	83	14	6	Diesel	100	0.29		
KI-Eastern - 10	Dewater Pump 6"	Pump	434.3	7	62	Diesel	50	0.74		
KI-Eastern - 10	150 KW Diesel Generator	Generator	108.6	7	16	Diesel Tier 4	183	0.74		
KI-Eastern - 10	Hydraulic 15 Ton Crane	Crane	108.6	7	16	Diesel	100	0.29		
KI-Eastern - 11	Manitowoc 777 200 Ton Crane	Crane	38.2	6	6	Diesel	760	0.29		
KI-Eastern - 11	250 CFM Compressor Diesel	Air Compressor	8.9	6	1	Diesel Tier 3	75	0.48		
KI-Eastern - 11	Trailer Conc Pump 100 CY HR	Pump	8.9	6	1	Diesel	200	0.74		
KI-Eastern - 12	250 CFM Compressor Diesel	Air Compressor	12.8	19	1	Diesel Tier 3	75	0.48		
KI-Eastern - 12	Manitowoc 777 200 Ton Crane	Crane	128.8	19	7	Diesel	760	0.29		
KI-Eastern - 13	250 CFM Compressor Diesel	Air Compressor	760	70	11	Diesel Tier 3	75	0.48		
KI-Eastern - 13	Trailer Conc Pump 100 CY HR	Pump	348.7	70	5	Diesel	200	0.74		
KI-Eastern - 13	Manitowoc 777 200 Ton Crane	Crane	110.7	70	2	Diesel	760	0.29		
KI-Eastern - 13	Manitowoc 999-275 Ton Crane	Crane	139.3	70	2	Diesel	900	0.29		
KI-Eastern - 13	Hydraulic 9 Ton Crane	Crane	287.5	70	4	Diesel	85	0.29		
KI-Eastern - 14	Hydraulic 9 Ton Crane	Crane	43.4	6	7	Diesel	85	0.29		
KI-Eastern - 14	Hydraulic 40 Ton Crane	Crane	43.4	6	7	Diesel	300	0.29		
KI-Eastern - 14	CAT Forklift 5,500 LB	Aerial Lift	43.4	6	7	Diesel	63	0.31		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for King Island - Eastern Tunnel Shaft
Options 10A, 10B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
KI-13	400A, Electric Welder	222.4	70	15	47.657
KI-13	Axial Fan 114,000 CFM	65.1	70	50	47

Vehicle Inventory for King Island - Eastern Tunnel Shaft
Options 10A, 10B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/Trip	# of Vehicles Trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
KI-Eastern - 1	Truck, Flatbed, 10T, Hwy	Scraper to and from Stockton	2	0.9	0.4	2	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 1	Truck, Flatbed, 10T, Hwy	Dozer and Grader from Stockton	1	0.4	0.4	1	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 2	Truck, Flatbed, 10T, Hwy	Materials from Stockton	0	22.5	0.4	52	#DIV/0!	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 3	Highway Dump Truck 18 CY	Materials from Stockton	263	1937.1	0.4	4470	17	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 3	Truck/ End Dump/ 16-30cy/ Hwy	Soil Material in Covered Trucks from Twin Cities Complex	263	4801.3	0.9	5540	21	King I Shaft to/from Twin Cities Complex	26	52	Diesel	
KI-Eastern - 3	Truck, Flatbed, 10T, Hwy	Roller to and from Stockton	2	0.9	0.4	2	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 3	Truck, Flatbed, 10T, Hwy	Dozer and Grader to Stockton	1	0.4	0.4	1	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern -4	Truck, Flatbed, 10T, Hwy	Excavator and Loader from Stockton	1	0.9	0.4	2	2.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern -4	Truck Flatbed 4 T Highway	Rebar from Sacramento	12	1.4	1.4	1	0	King I Shaft to/from Sacramento	43	86	Diesel	
KI-Eastern -4	Concrete Transit Mix Truck/ 12cy	Concrete from Lambert Rd	12	21.7	0.9	25	2	King I Shaft to/from Lambert Road Concrete Batch Plant	26	52	Diesel	
KI-Eastern - 6	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	38	303.9	1.4	212	6	King I Shaft to/from Sacramento	43	86	Diesel	
KI-Eastern - 6	Truck Flatbed 4 T Highway	Rebar from Sacramento	38	37.3	1.4	26	1	King I Shaft to/from Sacramento	43	86	Diesel	
KI-Eastern - 6	Concrete Transit Mix Truck/ 12cy	Concrete from Lambert Rd	38	522.6	0.9	603	16	King I Shaft to/from Lambert Road Concrete Batch Plant	26	52	Diesel	
KI-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	0.9	0.4	2	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	0.4	0.4	1	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern -7	Truck, Flatbed, 10T, Hwy	Excavator and Loader to Stockton	1	0.9	0.4	2	2.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern -7	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	0.4	0.4	1	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern -7	Truck Flatbed 4 T Highway	Rebar from Sacramento	43	1.4	1.4	1	0	King I Shaft to/from Sacramento	43	86	Diesel	
KI-Eastern -7	Concrete Transit Mix Truck/ 12cy	Concrete from Lambert Td	43	10.4	0.9	12	0	King I Shaft to/from Lambert Road Concrete Batch Plant	26	52	Diesel	
KI-Eastern - 9	Truck Flatbed 4 T Highway	Rebar from Sacramento	14	11.5	1.4	8	1	King I Shaft to/from Sacramento	43	86	Diesel	
KI-Eastern - 9	Concrete Transit Mix Truck/ 12cy	Concrete from Lambert Rd	14	455.0	0.9	525	38	King I Shaft to/from Lambert Road Concrete Batch Plant	26	52	Diesel	
KI-Eastern - 9	Truck, Flatbed, 10T, Hwy	Two Cranes to and from Stockton	2	1.7	0.4	4	2.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern -10	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	0.9	0.4	2	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern -11	Truck Flatbed 4 T Highway	Rebar from Sacramento	6	1.4	1.4	1	0.2	King I Shaft to/from Sacramento	43	86	Diesel	
KI-Eastern -11	Concrete Transit Mix Truck/ 12cy	Concrete from Lambert Td	6	32.9	0.9	38	6	King I Shaft to/from Lambert Road Concrete Batch Plant	26	52	Diesel	
KI-Eastern -12	Truck Flatbed 4 T Highway	Rebar from Sacramento	19	2.9	1.4	2	0.1	King I Shaft to/from Sacramento	43	86	Diesel	
KI-Eastern -13	Concrete Transit Mix Truck/ 12cy	Concrete from Lambert Rd	70	343.2	0.9	396	6	King I Shaft to/from Lambert Road Concrete Batch Plant	26	52	Diesel	
KI-Eastern -13	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	0.4	0.4	1	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern -13	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	0.9	0.4	2	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern -14	Truck, Flatbed, 10T, Hwy	Forklift from and to Stockton	1	0.9	0.4	2	2.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern -14	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	0.4	0.4	1	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern -14	Truck, Flatbed, 10T, Hwy	Materials from Stockton	6	0.4	0.4	1	0.2	King I Shaft to/from Stockton	13	26	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site										Miles On-Site		
KI-Eastern - 3	Highway Dump Truck 18 CY	Dumper	263	1937.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		9686	Diesel	
KI-Eastern -4	CAT 730 Rear Dumbo	Dumper	12	20.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		101	Diesel or Hybrid	
KI-Eastern - 6	CAT 730 Rear Dump	Dumper	38	261.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1306	Diesel or Hybrid	
KI-Eastern - 6	Articulated Rear Dump 22 CY/CAT 730	Dumper	38	229.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1146	Diesel or Hybrid	
KI-Eastern - 6	Concrete Pump Truck	Off-Highway Truck	38	458.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2291	Diesel	
KI-Eastern -14	Highway Flatbed 30 Ton	Off-Highway Truck	6	43.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		300	Diesel	

Employees Required to King Island - Eastern Tunnel Shaft
Options 10A, 10B

Code	Employee Type	Hours	# WorkDay		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
KI-Eastern - 1	General Foreman	11.13	10		Stockton to/from King I Shaft	13
KI-Eastern - 1	Dozer Operator	22.26	10		Stockton to/from King I Shaft	13
KI-Eastern - 1	Grader Operator	22.26	10		Stockton to/from King I Shaft	13
KI-Eastern - 1	Operator G4 Grade Check	11.13	10		Stockton to/from King I Shaft	13
KI-Eastern - 1	Scraper Operator	44.52	10		Stockton to/from King I Shaft	13
TOTAL KI-Eastern-1		111.3				
KI-Eastern - 3	Grade Setter / Checker	1937.1	10		Stockton to/from King I Shaft	13
KI-Eastern - 3	Compactor Operator	1937.1	10		Stockton to/from King I Shaft	13
KI-Eastern - 3	Dozer Operator	1937.1	10		Stockton to/from King I Shaft	13
KI-Eastern - 3	Grader Operator	1937.1	10		Stockton to/from King I Shaft	13
KI-Eastern - 3	Truck Driver	1937.1	10		Stockton to/from King I Shaft	13
TOTAL KI-Eastern-3		9685.5				
KI-Eastern - 4	Carpenter	383.7	10		Stockton to/from King I Shaft	13
KI-Eastern - 4	Carpenter Foreman	95.9	10		Stockton to/from King I Shaft	13
KI-Eastern - 4	Excavator Operator	6.5	10		Stockton to/from King I Shaft	13
KI-Eastern - 4	Lead Miner	6.5	10		Stockton to/from King I Shaft	13
KI-Eastern - 4	Loader Operator	6.5	10		Stockton to/from King I Shaft	13
KI-Eastern - 4	Miner	6.5	10		Stockton to/from King I Shaft	13
KI-Eastern - 4	Shifter	6.5	10		Stockton to/from King I Shaft	13
KI-Eastern - 4	Truck Driver	19.5	10		Stockton to/from King I Shaft	13
TOTAL KI-Eastern-4		531.6				
KI-Eastern - 5	General Laborer	11.8	10		Stockton to/from King I Shaft	13
KI-Eastern - 5	Carpenter	103.1	10		Stockton to/from King I Shaft	13
KI-Eastern - 5	Carpenter Foreman	25.8	10		Stockton to/from King I Shaft	13
TOTAL KI-Eastern-5		140.7				
KI-Eastern - 6	Crane Oiler	458.2	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	General Foreman	458.2	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	General Laborer	2519.9	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Hyd Crane Operator	458.2	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Iron Worker	2290.9	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Iron Worker Foreman	458.2	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Lead Miner	229.1	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Loader Operator	229.1	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Mechanic Welder	458.2	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Miner	1832.7	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Shaft Crane Operator	458.2	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Shifter	687.3	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Truck Driver	261.2	24		Stockton to/from King I Shaft	13
TOTAL KI-Eastern-6		10799.4				
KI-Eastern - 7	Carpenter	40	24		Stockton to/from King I Shaft	13
KI-Eastern - 7	Carpenter Foreman	10	24		Stockton to/from King I Shaft	13
KI-Eastern - 7	Excavator Operator	255.7	24		Stockton to/from King I Shaft	13
KI-Eastern - 7	General Foreman	255.7	24		Stockton to/from King I Shaft	13
KI-Eastern - 7	General Laborer	799	24		Stockton to/from King I Shaft	13
KI-Eastern - 7	Iron Worker	47.8	24		Stockton to/from King I Shaft	13
KI-Eastern - 7	Iron Worker Foreman	11.9	24		Stockton to/from King I Shaft	13
KI-Eastern - 7	Loader Operator	255.7	24		Stockton to/from King I Shaft	13
TOTAL KI-Eastern-7		1675.8				
KI-Eastern - 8	Crane Oiler	272.3	24		Stockton to/from King I Shaft	13
KI-Eastern - 8	Shaft Crane Operator	272.3	24		Stockton to/from King I Shaft	13
KI-Eastern - 8	Toplander	272.3	24		Stockton to/from King I Shaft	13
TOTAL KI-Eastern-8		816.9				
KI-Eastern - 9	Bottomlander	120.5	24		Stockton to/from King I Shaft	13
KI-Eastern - 9	Hyd Crane Operator	122.1	24		Stockton to/from King I Shaft	13
KI-Eastern - 9	Iron Worker	1276.8	24		Stockton to/from King I Shaft	13
KI-Eastern - 9	Iron Worker Foreman	159.6	24		Stockton to/from King I Shaft	13
KI-Eastern - 9	Lead Miner	20.8	24		Stockton to/from King I Shaft	13
KI-Eastern - 9	Miner	485.3	24		Stockton to/from King I Shaft	13
KI-Eastern - 9	Shaft Crane Operator	120.5	24		Stockton to/from King I Shaft	13
KI-Eastern - 9	Shifter	180.4	24		Stockton to/from King I Shaft	13
KI-Eastern - 9	Toplander	156.3	24		Stockton to/from King I Shaft	13
TOTAL KI-Eastern-9		2642.3				
KI-Eastern - 10	Hyd Crane Operator	108.6	24		Stockton to/from King I Shaft	13
KI-Eastern - 10	Lead Miner	108.6	24		Stockton to/from King I Shaft	13
KI-Eastern - 10	Miner	868.6	24		Stockton to/from King I Shaft	13

KI-Eastern - 10	Shifter	108.6	24	Stockton to/from King I Shaft	13
TOTAL KI-Eastern-10		1194.4			
KI-Eastern - 11	Crane Oiler	38.2	10	Stockton to/from King I Shaft	13
KI-Eastern - 11	Electrician	8.9	10	Stockton to/from King I Shaft	13
KI-Eastern - 11	Iron Worker	234.5	10	Stockton to/from King I Shaft	13
KI-Eastern - 11	Iron Worker Foreman	29.3	10	Stockton to/from King I Shaft	13
KI-Eastern - 11	Lead Miner	8.9	10	Stockton to/from King I Shaft	13
KI-Eastern - 11	Mechanic Welder	8.9	10	Stockton to/from King I Shaft	13
KI-Eastern - 11	Miner	129.9	10	Stockton to/from King I Shaft	13
KI-Eastern - 11	Shaft Crane Operator	38.2	10	Stockton to/from King I Shaft	13
KI-Eastern - 11	Shifter	38.2	10	Stockton to/from King I Shaft	13
KI-Eastern - 11	Toplander	38.2	10	Stockton to/from King I Shaft	13
TOTAL KI-Eastern-11		573.2			
KI-Eastern - 12	Bottomlander	128.8	10	Stockton to/from King I Shaft	13
KI-Eastern - 12	Crane Oiler	128.8	10	Stockton to/from King I Shaft	13
KI-Eastern - 12	Iron Worker	1030.7	10	Stockton to/from King I Shaft	13
KI-Eastern - 12	Iron Worker Foreman	128.8	10	Stockton to/from King I Shaft	13
KI-Eastern - 12	Shaft Crane Operator	128.8	10	Stockton to/from King I Shaft	13
KI-Eastern - 12	Toplander	128.8	10	Stockton to/from King I Shaft	13
TOTAL KI-Eastern-12		386.4			
KI-Eastern - 13	Bottomlander	111	10	Stockton to/from King I Shaft	13
KI-Eastern - 13	Concrete Pump Operator	69.8	10	Stockton to/from King I Shaft	13
KI-Eastern - 13	Crane Oiler	194	10	Stockton to/from King I Shaft	13
KI-Eastern - 13	Electrician	288	10	Stockton to/from King I Shaft	13
KI-Eastern - 13	Hyd Crane Operator	288	10	Stockton to/from King I Shaft	13
KI-Eastern - 13	Lead Miner	760	10	Stockton to/from King I Shaft	13
KI-Eastern - 13	Mechanic / Welder	912.5	10	Stockton to/from King I Shaft	13
KI-Eastern - 13	Miner	5082	10	Stockton to/from King I Shaft	13
KI-Eastern - 13	Shaft Crane Operator	250	10	Stockton to/from King I Shaft	13
KI-Eastern - 13	Shifter	760	10	Stockton to/from King I Shaft	13
KI-Eastern - 13	Toplander	250	10	Stockton to/from King I Shaft	13
TOTAL KI-Eastern-13		8964			
KI-Eastern - 14	Bullgang Foreman	43.4	10	Stockton to/from King I Shaft	13
KI-Eastern - 14	Bullgang Laborer	86.9	10	Stockton to/from King I Shaft	13
KI-Eastern - 14	Mechanic / Welder	43.4	10	Stockton to/from King I Shaft	13
KI-Eastern - 14	Hyd Crane Operator	86.9	10	Stockton to/from King I Shaft	13
KI-Eastern - 14	Flat Truck Driver	43.4	10	Stockton to/from King I Shaft	13
TOTAL KI-Eastern-14		304			

Marine Inventory for King I - Eastern Tunnel Shaft
Options 10A, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for King I - Eastern Tunnel Shaft
Options 10A, 10B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

Helicopter Inventory for King I - Eastern Tunnel Shaft
Options 10A, 10B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for King 1 - Eastern Tunnel Shaft
Options 10A, 10B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
KI-Eastern - 1	12	15	1								
KI-Eastern - 3		263				85183	324				
KI-Eastern - 4		12		425.6	35						
KI-Eastern - 6		38		5719.5	151						
KI-Eastern - 8		38		29964.5	789						

**Demolition Assumptions for King I - Eastern Tunnel Shaft
Options 10A, 10B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Lower Roberts I Levee - Eastern
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX G - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Construct Levee	LR I Levee-E -1	9/13/2028	11/21/2028	49	5	10

Construction Schedule for Lower Roberts I - Eastern Access Road**Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B****THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX G- ATTACHMENT 1**

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	Lower Roberts I - E Access -1	5/12/2026	6/5/2026	19	5	10
Embankment	Lower Roberts I - E Access -2	6/8/2026	7/15/2026	28	5	10
Culvert Pipe	Lower Roberts I - E Access -3	7/16/2026	7/21/2026	5	5	10
Bridge over Turner Cut	Lower Roberts I - E Access -4	7/16/2026	8/27/2026	31	5	10
Subdrain System	Lower Roberts I - E Access -5	7/22/2026	9/15/2026	40	5	10
Road Base	Lower Roberts I - E Access -6	9/16/2026	10/21/2026	26	5	10
Bridge over Burns Cut	Lower Roberts I - E Access -7	9/16/2026	2/8/2027	104	5	10
Asphalt Paving	Lower Roberts I - E Access -8	1/5/2027	2/8/2027	25	5	10
KRail and Signs	Lower Roberts I - E Access -9	2/10/2027	2/11/2027	2	2	10
Intermediate Overlay	Lower Roberts I - E Access -10	4/15/2030	5/10/2030	20	5	10
Final Overlay	Lower Roberts I - E Access -11	12/6/2038	12/20/2038	11	5	10

Acres**31**

Construction Schedule for Lower Roberts I Railroad - Eastern Access
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX G - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Track	LRI RR - Eastern Access -1	7/5/2027	9/9/2027	49	5	10

PLEASE NOTE THAT BRIDGES OVER BURNS AND TURNER CUTS WOULD BE A ROADWAY & RAILROAD BRIDGE. CONSTRUCTION OF BRIDGE INCLUDED IN LOWER ROBERTS ISLAND - EASTERN ACCESS ROAD. THIS WORKBOOK INCLUDES CONSTRUCTION OF RAILROAD ON LOWER ROBERTS ISLAND.

Construction Schedule for Lower Roberts Island - Eastern Tunnel Shaft						
Options 10A, 10B						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Embankment	LRI-Eastern - 1	5/18/2027	6/4/2027	14	5	10
Subdrain	LRI-Eastern - 2	6/7/2027	7/2/2027	20	5	10
Mobilize	LRI-Eastern - 3	7/19/2028	9/12/2028	39	5	10
Management, Engineering, & Field Labor	LRI-Eastern - 4	7/19/2028	10/3/2036	2136	5	10
Clear and Grub	LRI-Eastern - 5	9/13/2028	10/10/2028	19	5	10
Grading, & Compaction at Shaft & Segment Storage Area	LRI-Eastern - 6	10/3/2029	10/30/2029	20	5	10
Ground Improvement, Grading, & Compaction at RTM Storage Area	LRI-Eastern - 7	10/10/2029	8/12/2030	220	5	
						10
Raise Shaft Pad	LRI-Eastern - 8	3/14/2029	2/26/2030	250	5	10
Excavate, Set Strips, & Concrete for Shaft & Segment Areas	LRI-Eastern - 9	12/5/2029	7/25/2030	161	5	10
Place Guide Walls Concrete	LRI-Eastern - 10	2/27/2030	3/22/2030	18	5	10
Excavate Slurry Wall, Place Concrete & Rebar, Slurry Wall, Remove Guide Wall, & add Top Beam	LRI-Eastern - 11	3/25/2030	7/18/2030	85	5	10
Excavate Shaft	LRI-Eastern - 12	7/19/2030	10/16/2030	66	5	10
Place Tremie Seal Rebar, Cooling Pipes, & Seal	LRI-Eastern - 13	10/17/2030	11/13/2030	28	7	24
Dewater Shaft	LRI-Eastern - 14	11/14/2030	11/20/2030	10	7	24
Place TBM Cradle Rebar and Cradle Pour	LRI-Eastern - 15	11/21/2030	12/3/2030	9	5	10
Breakout Slurry Wall for TBM	LRI-Eastern - 16	12/4/2030	12/31/2030	20	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	LRI-Eastern - 17	1/1/2031	3/25/2031	60	5	10
Erect Gantry Crane	LRI-Eastern - 18	3/26/2031	4/16/2031	16	5	10
TBM Assembly including Shaft Utilities	LRI-Eastern - 19	4/17/2031	12/3/2031	165	5	10
Tunneling Operations including Equipment Delivery	LRI-Eastern - 20	4/17/2031	7/21/2036	1615	6	20
Remove TBM and Tunnel Equipment	LRI-Eastern - 21	7/31/2036	10/3/2036	46	5	10
Final Access to RTM Storage Area	LRI-Eastern - 22	10/3/2036	10/8/2036	5	5	10
Site Restoration	LRI-Eastern - 23	12/25/2036	4/8/2037	75	5	10
Total Site Acres	407					

**Offroad Equipment (Fossil Fuel) Inventory for Lower Roberts Island - Eastern Tunnel Shaft
Options 10A, 10B**

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
LRI-Eastern - 1	CAT 14 M	Grader	65.5	14	5	Diesel	274	0.41		
LRI-Eastern - 1	CAT 825, Roller	Rollers	131	14	9	Diesel	315	0.38		
LRI-Eastern - 1	CAT D6LGPDozer w winch	Crawler Tractor	131	14	9	Diesel or Hybrid	179	0.43		
LRI-Eastern - 1	Disk, Towed	Off-Highway Tractor	131	14	9	Diesel	140	0.44		
LRI-Eastern - 1	Water Pump 4" Electric	Pumps	15.72	14	1	Diesel	10	0.74		
LRI-Eastern - 2	CAT LOADER/HOE 416 E	Rubber Tired Loader	49.13	20	2	Diesel	78	0.36		
LRI-Eastern - 2	Compactor, Trench Roller, Vib 32"w	Roller	98.25	20	5	Diesel	20	0.38		
LRI-Eastern - 3	CAT Forklift 5,500 LB	Aerial Lift	400	39	10	Diesel	63	0.31		
LRI-Eastern - 3	Hydraulic 40 Ton Crane	Crane	400	39	10	Diesel	300	0.29		
LRI-Eastern - 3	Hydraulic 9 Ton Crane	Crane	400	39	10	Diesel	85	0.29		
LRI-Eastern - 5	623G Scraper Elevate 21 CY	Scaper	2031.5	19	107	Diesel	359	0.48		
LRI-Eastern - 5	CAT D8 Dozer	Crawler Tractor	1015.8	19	53	Diesel Tier 4 or Hybrid Diesel	179	0.43		
LRI-Eastern - 5	Grader 16H - 16' Blade	Grader	1015.8	19	53	Diesel	285	0.41		
LRI-Eastern - 6	CAT 825H Compactor	Rollers	126	20	6	Diesel	145	0.38		
LRI-Eastern - 6	CAT 980 Loader 7.5 CY	Grader	126	20	6	Diesel	285	0.41		
LRI-Eastern - 6	CAT CB-634D Vibratory 84"	Rollers	126	20	6	Diesel	315	0.38		
LRI-Eastern - 6	CAT D8 Dozer	Crawler Tractor	126	20	6	Diesel Tier 4 or Hybrid Diesel	179	0.43		
LRI-Eastern - 6	CAT Grader 16H	Grader	126	20	6	Diesel	285	0.41		
LRI-Eastern - 7	Air Compressor 375 CFM	Air Compressor	3547	220	16	Diesel Tier 4	122	0.48		
LRI-Eastern - 7	Case 590 SupN Loader	Rubber Tired Loaders	3547	220	16	Diesel	110	0.36		
LRI-Eastern - 7	CAT 825H Compactor	Rollers	202	220	1	Diesel	145	0.38		
LRI-Eastern - 7	CAT 980 Loader 7.5 CY	Grader	202	220	1	Diesel	285	0.41		
LRI-Eastern - 7	CAT CB-634D Vibratory 84"	Rollers	202	220	1	Diesel	315	0.38		
LRI-Eastern - 7	CAT D8 Dozer	Crawler Tractor	202	220	1	Diesel Tier 4 or Hybrid Diesel	179	0.43		
LRI-Eastern - 7	CAT Grader 16H	Grader	202	220	1	Diesel	285	0.41		
LRI-Eastern - 7	DMM Deep Soil Mixer	Bore Drill Rig	3547	220	16	Diesel	522	0.5		
LRI-Eastern - 7	DMM Grout Mix Plant	Other Industrial Equipmen	3547	220	16	Diesel	500	0.34		
LRI-Eastern - 7	Grove RT Crane 30T	Crane	3547	220	16	Diesel	160	0.29		
LRI-Eastern - 7	Hydraulic 9 Ton Crane	Crane	237.9	220	1	Diesel	85	0.29		
LRI-Eastern - 7	Portable 90 Kw Diesel	Generators	220	220	1	Diesel Tier 4	158	0.74		
LRI-Eastern - 8	CAT CB-634D Vibratory 84"	Rollers	3939.7	250	16	Diesel	145	0.38		
LRI-Eastern - 8	CAT D8 Dozer	Crawler Tractor	3939.7	250	16	Diesel	328	0.43		
LRI-Eastern - 8	CAT Grader 16H	Graders	3939.7	250	16	Diesel	285	0.41		
LRI-Eastern - 9	Hydraulic 9 Ton Crane	Crane	375	161	2	Diesel	85	0.29		
LRI-Eastern - 10	CAT Hyd Excavator 1CY	Excavator	10	18	1	Diesel	138	0.38		
LRI-Eastern - 10	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	10	18	1	Diesel or Hybrid	130	0.36		
LRI-Eastern - 11	1600 CFM Compressor Diesel	Air Compressor	530.1	85	6	Diesel Tier 4	540	0.48		
LRI-Eastern - 11	250 CFM Compressor Diesel	Air Compressor	31.3	85	0	Diesel Tier 3	75	0.48		
LRI-Eastern - 11	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	926.6	85	11	Diesel or Hybrid	130	0.36		
LRI-Eastern - 11	CAT Forklift 5,500 LB	Aerial Lift	16.7	85	0	Diesel	63	0.31		
LRI-Eastern - 11	CAT Hyd Excavator 1CY	Excavator	413.2	85	5	Diesel	138	0.38		
LRI-Eastern - 11	Hydraulic 40 Ton Crane	Crane	16.7	85	0	Diesel	300	0.29		
LRI-Eastern - 11	Hydraulic 55 Ton Crane	Crane	1060.2	85	12	Diesel	350	0.29		
LRI-Eastern - 11	Hydraulic 9 Ton Crane	Crane	16.7	85	0	Diesel	85	0.29		
LRI-Eastern - 11	Hydraulic Excavator to 3.5 tons = Kobe Excavator	Crane	396.5	85	5	Diesel	345	0.38		
LRI-Eastern - 11	Manitowoc 777 200 Ton Crane	Crane	1060.2	85	12	Diesel	760	0.29		
LRI-Eastern - 11	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	530.1	85	6	Diesel	8	0.56		
LRI-Eastern - 11	Slurry Wall Techniwell	Pumps	530.1	85	6	Diesel	500	0.74		
LRI-Eastern - 12	Manitowoc 777 200 Ton Crane	Crane	749.1	66	11	Diesel	760	0.29		
LRI-Eastern - 13	Hydraulic 25 Ton Crane	Crane	207.3	28	7	Diesel	100	0.29		
LRI-Eastern - 13	Hydraulic 40 Ton Crane	Crane	83.5	28	3	Diesel	300	0.29		
LRI-Eastern - 13	Manitowoc 777 200 Ton Crane	Crane	243.1	28	9	Diesel	760	0.29		
LRI-Eastern - 14	150 KW Diesel Generator	Generator	104.3	10	10	Diesel Tier 4	183	0.74		
LRI-Eastern - 14	Dewater Pump 6"	Pump	417.4	10	42	Diesel	50	0.74		
LRI-Eastern - 14	Hydraulic 15 Ton Crane	Crane	104.3	10	10	Diesel	85	0.29		
LRI-Eastern - 15	250 CFM Compressor Diesel	Air Compressor	22.2	9	2	Diesel Tier 3	75	0.48		
LRI-Eastern - 15	Manitowoc 777 200 Ton Crane	Crane	96.3	9	11	Diesel	760	0.29		
LRI-Eastern - 15	Trailer Conc Pump 100 CY HR	Pump	22.2	9	2	Diesel	200	0.74		
LRI-Eastern - 16	Manitowoc 777 200 Ton Crane	Crane	293.7	20	15	Diesel	760	0.29		
LRI-Eastern - 16	250 CFM Compressor Diesel	Air Compressor	293.7	20	15	Diesel Tier 3	75	0.48		
LRI-Eastern - 17	250 CFM Compressor Diesel	Air Compressor	710.4	60	12	Diesel Tier 3	75	0.48		
LRI-Eastern - 17	Manitowoc 777 200 Ton Crane	Crane	543.4	60	9	Diesel	760	0.29		
LRI-Eastern - 17	Manitowoc 999-275 Ton Crane	Crane	300.5	60	5	Diesel	900	0.29		
LRI-Eastern - 17	Trailer Conc Pump 100 CY HR	Pump	393.2	60	7	Diesel	200	0.74		
LRI-Eastern - 18	1600 CFM Compressor Diesel	Air Compressor	133.3	16	8	Diesel Tier 4	540	0.48		
LRI-Eastern - 18	Heavy Duty Mechanic Welder	Welder	133.3	16	8	Diesel	400	0.45		
LRI-Eastern - 18	Hydraulic 25 Ton Crane	Crane	133.3	16	8	Diesel	100	0.29		
LRI-Eastern - 18	Telescope RT Forklift 5500	Forklift	133.3	16	8	Diesel	63	0.2		
LRI-Eastern - 18	Truck Crane Lattice Boom 90T	Crane	133.3	16	8	Diesel Tier 4	300	0.29		
LRI-Eastern - 19	250 CFM Compressor Diesel	Air Compressor	1916.7	165	12	Diesel Tier 3	75	0.48		
LRI-Eastern - 19	Hydraulic 40 Ton Crane	Crane	750	165	5	Diesel	300	0.29		
LRI-Eastern - 20	250 CFM Compressor Diesel	Air Compressor	19546.3	1615	12	Diesel Tier 3	75	0.48		
LRI-Eastern - 20	CAT 980 Loader 7.5 CY	Grader	50585.3	1615	31	Diesel	285	0.41		
LRI-Eastern - 20	CAT Forklift 5,500 LB	Aerial Lift	10282.3	1615	6	Diesel	63	0.31		
LRI-Eastern - 20	Grout Mixer	Cement & Mortar Mix	959.3	1615	1	Diesel	70	0.56		

LRI-Eastern - 20	Grout Pump	Cement & Mortar Mix	959.3	1615	1	Diesel	500	0.56
LRI-Eastern - 20	Hydraulic 40 Ton Crane	Crane	10283.3	1615	6	Diesel	300	0.29
LRI-Eastern - 20	Hydraulic 9 Ton Crane	Crane	10283.3	1615	6	Diesel	85	0.29
LRI-Eastern - 20	Manitowoc 777 200 Ton Crane	Crane	35017.8	1615	22	Diesel	760	0.29
LRI-Eastern - 21	1600 CFM Compressor Diesel	Air Compressor	83.3	46	2	Diesel Tier 4	540	0.48
LRI-Eastern - 21	CAT Forklift 5,500 LB	Aerial Lift	975	46	21	Diesel	63	0.31
LRI-Eastern - 21	Heavy Duty Mechanic Welder	Welder	83.3	46	2	Diesel	400	0.45
LRI-Eastern - 21	Hydraulic 25 Ton Crane	Crane	83.3	46	2	Diesel	100	0.29
LRI-Eastern - 21	Hydraulic 55 Ton Crane	Crane	595.8	46	13	Diesel	350	0.29
LRI-Eastern - 21	Manitowoc 777 200 Ton Crane	Crane	595.8	46	13	Diesel	760	0.29
LRI-Eastern - 21	Truck Crane Lattice Boom 90T	Crane	383.3	46	8	Diesel Tier 4	300	0.29
LRI-Eastern - 22	CAT 14 M	Grader	51.5	5	10	Diesel	274	0.41
LRI-Eastern - 22	Cat 613 C Self Loading Scraper	Scraper	103	5	21	Diesel	187	0.48
LRI-Eastern - 22	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	51.5	5	10	Diesel	158	0.38
LRI-Eastern - 22	CAT D6LGP Dozer w winch	Crawler Tractor	51.5	5	10	Diesel or Hybrid	179	0.43
LRI-Eastern - 23	CAT 12 M	Grader	50.5	75	1	Diesel	173	0.41
LRI-Eastern - 23	CAT 390 MASS EXC	Excavator	918	75	12	Diesel	534	0.38
LRI-Eastern - 23	Cat 6 mgal w/ CAT 725 Tractor, 320hp	Crawler Tractor	1025.5	75	14	Diesel	320	0.43
LRI-Eastern - 23	CAT 631G Scraper, Conventional	Scraper	1768	75	24	Diesel	515	0.48
LRI-Eastern - 23	CAT 966 GII Wheel Loader	Rubber Tired Loader	20.5	75	0	Diesel	170	0.36
LRI-Eastern - 23	CAT D8Rii, Dozer w winch	Crawler Tractor	1768	75	24	Diesel	310	0.43
LRI-Eastern - 23	CAT D9R, Dozer w ripper	Crawler Tractor	184	75	2	Diesel	410	0.43
LRI-Eastern - 23	Disk, Towed	Off-Highway Tractor	170.5	75	2	Diesel	140	0.44
LRI-Eastern - 23	Farm Tractor, All Wheel Drive, 285 HP	Off-Highway Tractor	499.5	75	7	Diesel	80	0.44
LRI-Eastern - 23	Hydro Mulcher, 18 HP	Pump	257	75	3	Diesel	25	0.29
LRI-Eastern - 23	Kobelco SK48SLC, 2.75cy, 345 hp	Excavator	2460	75	33	Diesel	345	0.38

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

**Offroad Equipment (Electric) Inventory for Lower Roberts Island - Eastern Tunnel Shaft
Options 10A, 10B**

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
LRI-Eastern-1	Light Plant, 4 lite, 1000w	524	14	1	0.159
LRI-Eastern - 7	Water Pump, 4" Electrical, Submersible	3547	220		
LRI-Eastern - 19	Gantry Crane	958.3	165	0.25	1
LRI-Eastern - 19	Axial Fan 114,000 CFM	2375	165	50	720
LRI-Eastern - 20	Axial Fan 114,000 CFM	176506.7	1615	50	5,465
LRI-Eastern - 21	Gantry Crane	891.7	46	0.25	5

Electricity for TBM Operations included in the Summary Workbook

Vehicle Inventory for Lower Roberts Island - Eastern Tunnel Shaft
Options 10A, 10B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
LRI-Eastern - 1	Pickup, 1/2T, 2wd	Materials from Stockton	14	131.5	0.6	208	14.8	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 1	Truck, Flatbed, 10T, Hwy	Two Tractors, Grader, and Roller from and to Stockton	2	5.1	0.6	8	4.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 2	Truck, Flatbed, 10T, Hwy	Loader and Roller from and to Stockton	2	2.5	0.6	4	2.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 3	Truck, Flatbed, 10T, Hwy	Materials from Stockton	39	400.0	0.6	632	16.2	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 3	Truck, Flatbed, 10T, Hwy	Two Cranes and Forklift from and to Stockton	2	3.8	0.6	6	3.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 3	Truck, Flatbed, 10T, Hwy	Materials from Stockton	39	10.1	0.6	16	0.4	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 5	Truck, Flatbed, 10T, Hwy	Dozer and Grader from Stockton	1	1.3	0.6	2	2.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 5	Truck, Flatbed, 10T, Hwy	Scraper from and to Stockton	2	1.3	0.6	2	1.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 5	Truck, Flatbed, 10T, Hwy	Materials from Stockton	19	105.8	0.6	167	8.8	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 6	Truck, Flatbed, 10T, Hwy	Two Rollers and Grader from Stockton	1	3.8	0.6	6	6.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 7	Pickup 1/2T 2 WD	Materials from Stockton	220	3547.0	0.6	5601	25.5	Lower Roberts I shaft to/from Stockton	19	38	Hybrid Gasoline	
LRI-Eastern - 7	Truck Flatbed 4 T Highway	Materials from Stockton	220	3547.0	0.6	5601	25.5	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 7	Mechanic Truck	Materials from Stockton	220	3547.0	0.6	5601	25.5	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 7	Truck, Flatbed, 10T, Hwy	Grader and Roller to Stockton	1	1.3	0.6	2	2.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 7	Truck, Flatbed, 10T, Hwy	Two Cranes from and to Stockton	2	2.5	0.6	4	2.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 7	Truck Flatbed 4 T Highway	Rebar from Livermore	220	12.8	1.6	8	0.0	Lower Roberts I shaft to/from Livermore	48	96	Diesel	
LRI-Eastern - 7	Concrete Transit Mix Truck 12cy	Concrete from Stockton	220	395.8	0.6	625	2.8	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 8	Highway Dump Truck 18 CY	Materials from Stockton	250	3929.7	0.6	6205	24.8	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 8	Truck, Flatbed, 10T, Hwy	Tractor, Grader, and Roller to Stockton	1	3.8	0.6	6	6.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 10	Truck, Flatbed, 10T, Hwy	Excavator and Loader from Stockton	1	1.3	0.6	2	2.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 10	Concrete Transit Mix Truck 12cy	Concrete from Stockton	18	17.3	0.5	37	2.1	Lower Roberts I shaft to/from Lodi	14	28	Diesel	
LRI-Eastern - 10	Truck Flatbed 4 T Highway	Rebar from Livermore	18	1.6	1.6	1	0.1	Lower Roberts I shaft to/from Livermore	48	96	Diesel	
LRI-Eastern - 11	Truck, Flatbed, 10T, Hwy	Materials from Stockton	85	16.7	0.6	26	0.3	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 11	Truck, Flatbed, 10T, Hwy	Three Cranes and Forklifts from Stockton	1	1.9	0.6	3	3.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 11	Truck, Flatbed, 10T, Hwy	Excavator, Crane, and Loader to Stockton	1	1.9	0.6	3	3.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 11	Truck Flatbed 4 T Highway	Rebar from Livermore	85	116.8	1.6	73	0.9	Lower Roberts I shaft to/from Livermore	48	96	Diesel	
LRI-Eastern - 11	Concrete Transit Mix Truck 12cy	Concrete from Stockton	85	1520.6	0.6	2401	28.2	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 11	Highway Dump Truck 18 CY	Shurry Wall Bentonite from Sacramento	85	324.5	1.8	177	2.1	Lower Roberts I shaft to/from Sacramento	55	110	Diesel	
LRI-Eastern - 11	Truck Flatbed 4 T Highway	Materials from Stockton	85	126.7	0.6	200	2.4	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 12	Concrete Transit Mix Truck 12cy	Concrete from Stockton	66	624.5	0.6	986	14.9	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	0.6	0.6	1	1.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 13	Truck Flatbed 4 T Highway	Rebar from Livermore	28	25.6	1.6	16	0.6	Lower Roberts I shaft to/from Livermore	48	96	Diesel	
LRI-Eastern - 13	Concrete Transit Mix Truck 12cy	Concrete from Stockton	28	830.3	0.6	1311	46.8	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 14	Truck, Flatbed, 10T, Hwy	Crane from and to Stockton	2	1.3	0.6	2	1.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 15	Truck Flatbed 4 T Highway	Rebar from Livermore	9	3.2	1.6	2	0.2	Lower Roberts I shaft to/from Livermore	48	96	Diesel	
LRI-Eastern - 15	Concrete Transit Mix Truck 12cy	Concrete from Stockton	9	59.5	0.6	94	10.4	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 16	Truck Flatbed 4 T Highway	Rebar from Livermore	20	8.0	1.6	5	0.3	Lower Roberts I shaft to/from Livermore	48	96	Diesel	
LRI-Eastern - 17	Truck, Flatbed, 10T, Hwy	Crane from and to Stockton	2	1.3	0.6	2	1.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 17	Concrete Transit Mix Truck 12cy	Concrete from Stockton	60	393.3	0.6	621	10.4	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 19	Highway Dump Truck 18 CY	Grout for Pre Cast Segments from Stockton	165	1326.8	0.6	2095	12.7	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 20	Truck, Flatbed, 10T, Hwy	Two Cranes and Grader to Stockton	2	3.8	0.6	6	3.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 20	Truck, Flatbed, 10T, Hwy	Materials from Stockton	1615	10283.3	0.6	16237	10.1	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 20	Truck, Flatbed, 10T, Hwy	Materials from Stockton	1615	6252.3	0.6	9872	6.1	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 20	Highway Dump Truck 18 CY	Grout for Pre Cast Segments from Stockton	1615	9096.6	0.6	14363	8.9	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 21	Truck, Flatbed, 10T, Hwy	Four Cranes and Forklift to Stockton	2	2.5	0.6	4	2.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 22	Pickup 1/2T 2 WD	Materials from Stockton	5	51.5	0.6	81	16.3	Lower Roberts I shaft to/from Stockton	19	38	Hybrid Gasoline	
LRI-Eastern - 22	Truck, Flatbed, 10T, Hwy	Dozer, Grader, Roller, and Scraper from and to Stockton	2	5.1	0.6	8	4.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 22	Highway Dump Truck 18 CY	Base Rock from Vernalis	5	53.2	0.9	57	11.4	Lower Roberts I shaft to/from Vernalis	28	56	Diesel	
LRI-Eastern - 23	Pickup 1/2T 2 WD	Materials from Stockton	75	1248.0	0.6	1971	26.3	Lower Roberts I shaft to/from Stockton	19	38	Hybrid Gasoline	
LRI-Eastern - 23	Truck, Flatbed, 10T, Hwy	Scraper, Two Excavators, Grader, Five Tractors, and Loader from and to Stockton	2	11.4	0.6	18	9.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 23	Truck Flatbed 4 T Highway	Materials from Stockton	75	57.6	0.6	91	1.2	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
Vehicle Use on Unpaved/Dirty Surface (no access roads at park and ride lots) ---on the Construction Site												
LRI-Eastern - 1	Cat 10mgal w/Cat 770, 511HP	Dumpers	14	65.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		328	Diesel	
LRI-Eastern - 2	Truck, End Dums, 10-13cy, Hwy	Dumpers	20	98.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		491	Diesel	
LRI-Eastern - 7	Concrete Pump Truck	Off-Highway Truck	220	464.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2320	Diesel	
LRI-Eastern - 11	CAT 730 Rear Dump	Dumper	85	604	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		3022	Diesel or Hybrid	
LRI-Eastern - 11	Articulated Rear Dums 22 CY/CAT 730	Dumper	85	530.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2651	Diesel or Hybrid	
LRI-Eastern - 11	Concrete Pump Truck	Off-Highway Truck	85	1060.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		5301	Diesel	
LRI-Eastern - 12	CAT 730 Rear Dump	Dumper	66	3440	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		17199	Diesel or Hybrid	
LRI-Eastern - 23	CAT 740-90T, Articulated end dums	Dumper	75	624.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		3120	Diesel or Hybrid	
LRI-Eastern - 23	Truck, End Dums, 10-13cy, Hwy	Dumper	75	9696.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		48480	Diesel	

Employees Required to Lower Roberts Island - Eastern Tunnel Shaft
Options 10A, 10B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
LRI-Eastern - 1	Laborer G2 General	15.72	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 1	OPERATING ENGINEER FOREMAN	131	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 1	Operator G2 Finish Blade	65.5	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 1	Operator G4 Dozer & Push Cat	131	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 1	Operator G5 Compactor w-blade	131	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 1	Teamster G3 ED 8-24cy,	65.5				14
LRI-Eastern - 1	Water>7mgal		10		Stockton to/from Lower Roberts I Shaft	
TOTAL LRI-Eastern-1		539.72				
LRI-Eastern - 2	Laborer G1 Pipe layers	196.5	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 2	Laborer G1 Power Tamper	98.25	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 2	Operator G3 BH-Loader>3/4cy	49.13	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 2	Teamster G2 Hwy ED 6-8cy,	98.25				14
LRI-Eastern - 2	Water<7mgal		10		Stockton to/from Lower Roberts I Shaft	
TOTAL LRI-Eastern-2		442.13				
LRI-Eastern - 3	Bullgang Foreman	400	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 3	Bullgang Laborer	800	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 3	Mechanic / Welder	400	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 3	Hyd Crane Operator	800	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 3	Flat Truck Driver	400	10		Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-3		2800				
LRI-Eastern - 4	Accountant	17664	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Concrete Superintendent	8832	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Cost Engineer	17664	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Electrical Superintendent	17664	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	EMT	17664	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Environmental Manager	17664	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Equipment Superintendent	17664	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Field Engineer	13248	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	General Superintendent	17664	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Geotechnical Manager	17664	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Office Administrator	17664	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Office Manager	17664	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Payroll Clerk	17664	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Project Engineer	17664	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Project Manager	17664	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Purchasing Agent	17664	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	QC Manager	17664	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	QC Technician	8832	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Runner	17664	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Safety Engineer	35328	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Safety Manager	17664	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Schedule Engineer	8832	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Shift Engineers	35328	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Survey Party Chief	17664	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Survey Rod Man	17664	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Tunnel Superintendent	17664	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Tunnel Walkers	35328	10		Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-4		499008				
LRI-Eastern - 5	General Foreman	507.88	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 5	Dozer Operator	1015.76	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 5	Grader Operator	1015.76	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 5	Operator G4 Grade Check	507.88	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 5	Scraper Operator	2031.52	10		Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-5		5078.8				
LRI-Eastern - 6	Grade Setter / Checker	120	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 6	Loader Operator	120	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 6	General Laborer	240	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 6	Flagger	240	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 6	General Foreman	120	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 6	Compactor Operator	240	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 6	Dozer Operator	120	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 6	Grader Operator	120	10		Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-6		1320				
LRI-Eastern - 7	Carpenter	1080.4	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Carpenter Foreman	154.1	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Compactor Operator	404	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Dozer Operator	202	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Flagger	404	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	General Foreman	202	10		Stockton to/from Lower Roberts I Shaft	14

LRI-Eastern - 7	General Laborer	900.7	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Grade Setter / Checker	202	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Grader Operator	202	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Hyd Crane Operator	226.8	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Iron Worker	1885	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Iron Worker Foreman	188.5	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Laborer G2 General	10641	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Loader Operator	202	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Operating Engineer	3547	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Operator G2 Plant Operator	7094	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Operator G3 BH Loader	3547	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Operator G3a Crane	3547	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Operator G4 Grade Check	3547	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Operator G4 Heavy Duty Mechanic	3547	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Teamster G1 Hwy	3547	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Teamster G2 Hwy	3547	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Truck Driver	464	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-7		49281.5			
LRI-Eastern - 8	Compactor Operator	3929.7	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 8	Dozer Operator	3929.7	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 8	Grade Setter / Checker	3929.7	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 8	Grader Operator	3929.7	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 8	Truck Driver	3929.7	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-8		19648.5			
LRI-Eastern - 9	Hyd Crane Operator	375	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 9	General Laborer	578	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 9	Carpenter	812	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 9	Carpenter Foreman	133	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 9	Iron Worker Foreman	312	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 9	Iron Worker	3120	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 9	Truck Driver	280	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-9		5610			
LRI-Eastern - 10	Carpenter	713.7	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 10	Carpenter Foreman	178.4	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 10	Excavator Operator	10	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 10	General Laborer	16.7	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 10	Lead Miner	10	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 10	Loader Operator	10	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 10	Miner	10	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 10	Shifter	10	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 10	Truck Driver	159.6	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-10		1118.4			
LRI-Eastern - 11	Bullgang Foreman	16.7	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Bullgang Laborer	33.4	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Carpenter	88.6	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Carpenter Foreman	22.2	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Crane Oiler	1060.2	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Excavator Operator	413.2	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Flat Truck Driver	16.7	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	General Foreman	1456.7	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	General Laborer	7083.9	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Hyd Crane Operator	1093.6	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Iron Worker	5377.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Iron Worker Foreman	1079.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Lead Miner	530.1	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Loader Operator	926.6	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Mechanic Welder	1076.9	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Miner	530.1	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Shaft Crane Operator	1060.2	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Shifter	1590.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Truck Driver	604.3	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-9		24060.3			
LRI-Eastern - 12	Shaft Crane Operator	749.1	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 12	Toplander	749.1	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 12	Crane Oiler	749.1	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-12		2247.3			
LRI-Eastern - 13	Bottomlander	243.1	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 13	Hyd Crane Operator	290.8	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 13	Iron Worker	2612.9	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 13	Iron Worker Foreman	326.6	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 13	Lead Miner	51.8	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 13	Miner	1067.8	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 13	Shaft Crane Operator	243.1	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 13	Shifter	378.4	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 13	Toplander	577	24	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-13		5791.5			
LRI-Eastern - 14	Shifter	104.3	24	Stockton to/from Lower Roberts I Shaft	14

LRI-Eastern - 14	Lead Miner	104.3	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 14	Miner	834.8	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 14	Hyd Crane Operator	104.3	24	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-14		1147.7			
LRI-Eastern - 15	Crane Oiler	96.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Electrician	22.2	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Iron Worker	592.7	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Iron Worker Foreman	74.1	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Lead Miner	22.2	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Mechanic Welder	22.2	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Miner	326	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Shaft Crane Operator	96.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Shifter	96.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Toplander	96.3	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-15		1444.6			
LRI-Eastern - 16	Bottomlander	293.7	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 16	Crane Oiler	293.7	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 16	Iron Worker	2349.4	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 16	Iron Worker Foreman	293.7	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 16	Shaft Crane Operator	293.7	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 16	Toplander	293.7	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-16		3817.9			
LRI-Eastern - 17	Bottomlander	543.4	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Concrete Pump Operator	338.9	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Crane Oiler	789.7	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Electrician	133.6	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Lead Miner	844	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Mechanic Welder	505	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Miner	6751.7	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Shaft Crane Operator	844	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Shifter	844	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Toplander	844	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Truck Driver	10427.5	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-17		22865.8			
LRI-Eastern - 18	Bullgang Foreman	133.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 18	Bullgang Laborer	800	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 18	Mechanic / Welder	133.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 18	Master Mechanic	400	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 18	Shaft Crane Operator	133.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 18	Crane Oiler	133.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 18	Electrician	133.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 18	Hyd Crane Operator	133.3	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-18		1999.8			
LRI-Eastern - 19	Bottomlander	958.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Conveyor Belt Man	833.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Crane Oiler	958.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Electrician	3041.7	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Hyd Crane Operator	750	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Lead Miner	2125	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Mechanic / Welder	3041.7	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Miner	14250	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Segment Carrier Operator	2000	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Shaft Crane Operator	958.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Shifter	2125	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	ST2G Mucker Operator	333.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	TBM Operator	2333.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Toplander	958.3	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-19		34666.5			
LRI-Eastern - 20	Bottomlander	36573.6	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Bullgang Foreman	31329.7	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Bullgang Laborer	104751.9	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Conveyor Belt Man	22151.7	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Segment Carrier Operator	139466.7	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Crane Oiler	36573.6	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Electrician	42772.3	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	General Laborer	67444.4	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Lead Miner	22151.7	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Loader Operator	50583.3	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Man Transport Truck Operator	21046.3	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Master Mechanic	10310.3	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Mechanic / Welder	62365.9	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Miner	168783.9	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Shaft Crane Operator	36573.6	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Shifter	22151.7	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	TBM Operator	44303.3	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Toplander	36573.6	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Utility Truck Operator	21046.3	20	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-20		976953.8			

LRI-Eastern - 21	Bottomlander	1487.5	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Bullgang Foreman	83.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Bullgang Laborer	500	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Crane Oiler	679.2	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Electrician	2166.7	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Forklift Operator	891.7	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Hyd Crane Operator	877.8	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Lead Miner	1487.5	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Master Mechanic	250	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Mechanic / Welder	2166.7	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Miner	7483	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Shaft Crane Operator	1570.8	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Shifter	1487.5	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Toplander	1487.5	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Utility Truck Operator	766.7	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-21		23385.9			
LRI-Eastern - 22	Laborer G2 General	50	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 22	Operator G7 Roller, Compactor	50	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 22	Operator G4 Dozer & Push Cat	50	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 22	Operator G4 Scraper	100	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 22	OPERATING ENGINEER FOREMAN	50	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 22	Operator G4 Grade Check	50	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 22	Operator G2 Finish Blade	50	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 22	Teamster G2 Hwy ED 6-8cy, Water<7	50	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-22		450			
LRI-Eastern - 23	Laborer G2 Concrete Laborer	1830	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Laborer G2 General	520	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Laborer G3 Flagman	1760	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	OPERATING ENGINEER FOREMAN	1396.5	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Operator G2 Excavator 3.5 to 7.0 cy	3000	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Operator G2 Finish Blade	50	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Operator G3 Loader >4cy	910	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Operator G4 Dozer & Push Cat	1900	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Operator G4 Scraper	1720	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Operator G6 Tractor	483	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Teamster G2 Hwy ED 6-8cy, Water<7	10346.5	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Teamster G4 ED 25-65 Cy	610	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-23		24526			

Marine Inventory for Lower Roberts Island - Eastern Tunnel Shaft
Options 10A, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Lower Roberts Island - Eastern Tunnel Shaft
Options 10A, 10B

Code	# day	Locomotive Type	From Depot Site	Delivery Depot	Rail Cars	Rail Cars/Day	Main Railroad	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (If known)
LRI-Eastern - 19	165	Pre Cast Segment	Stockton	Lower Roberts Island Sidetrack	382	2.32	UPRR & BNSF						
LRI-Eastern - 20	1615	Pre Cast Segment	Stockton	Lower Roberts Island Sidetrack	9139	5.66	UPRR & BNSF						

Helicopter Inventory for Lower Roberts Island - Eastern Tunnel Shaft
Options 10A, 10B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Lower Roberts Island - Eastern Tunnel Shaft
Options 10A, 10B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
LRI-Eastern - 1	407	14	29.1			31440	2246				
LRI-Eastern - 5		19		255972.6	13472						
LRI-Eastern - 6	7.35	20	0.4								
LRI-Eastern - 7	11.6	220	0.1								
LRI-Eastern - 8		250									
LRI-Eastern - 10		18		662.6	37	172929.8	692				
LRI-Eastern - 11		85		13260	156						
LRI-Eastern - 12		66		82398.5	1248						
LRI-Eastern - 23	15.75	75	0.2								

**Demolition Assumptions for Lower Roberts Island - Eastern Tunnel Shaft
Options 10A, 10B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Upper Jones Tract - Eastern Access Road

Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX G - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	UJ-E Access -1	4/21/2026	4/21/2026	1	1	10
Embankment	UJ-E Access -2	4/22/2026	4/23/2026	2	2	10
Culvert Pipe	UJ-E Access -3	4/24/2026	4/24/2026	1	1	10
Subdrain System	UJ-E Access -4	4/27/2026	5/4/2026	6	5	10
Road Base	UJ-E Access -5	5/5/2026	5/11/2026	5	5	10
KRail and Signs	UJ-E Access -6	5/12/2026	5/12/2026	1	1	10
12-month - Intermediate Maintenance	UJ-E Access -7	4/4/2028	4/14/2028	9	5	10
12-month - Final Maintenance	UJ-E Access -8	4/4/2029	4/14/2029	9	5	10

Acres

2.2

Construction Schedule for Upper Jones - Eastern Tunnel Shaft						
Options 10A, 10B						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Clear and Grub	UJ-Eastern - 1	10/4/2030	10/25/2030	16	5	10
Ground Improvement	UJ-Eastern - 2	11/15/2030	12/20/2030	26	5	10
Raise Shaft Pad	UJ-Eastern - 3	12/20/2030	12/19/2031	261	5	10
Excavate, Set Strips, & Place Guide Wall	UJ-Eastern - 4	12/22/2031	1/6/2032	12	5	10
Place Guide Walls Concrete	UJ-Eastern - 5	1/6/2032	1/8/2032	3	5	10
Excavate Slurry Wall & Place Concrete & Rebar	UJ-Eastern - 6	1/8/2032	2/17/2032	52	7	24
Slurry Wall including Strip Forms and Place Rebar & Top Beam	UJ-Eastern - 7	2/17/2032	3/26/2032	38	7	24
Excavate Shaft	UJ-Eastern - 8	3/31/2032	5/10/2032	41	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	UJ-Eastern - 9	5/10/2032	5/24/2032	15	7	24
Dewater Shaft	UJ-Eastern - 10	5/24/2032	5/31/2032	8	7	24
Place TBM Cradle Rebar and Cradle Pour	UJ-Eastern - 11	5/31/2032	6/8/2032	7	5	10
Breakout Slurry Wall for TBM	UJ-Eastern - 12	6/8/2032	7/5/2032	20	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	UJ-Eastern - 13	6/8/2032	8/31/2032	61	5	10
Place Shaft Cover	UJ-Eastern - 14	8/31/2032	9/8/2032	7	5	10
Total Site Acres	13.1					

Offroad Equipment (Fossil Fuel) Inventory for Upper Jones - Eastern Tunnel Shaft
Options 10A, 10B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
UJ-Eastern - 1	CAT D8 Dozer	Crawler Tractor	29.16	29	1	Diesel Tier 4 or Hybrid Diesel	179	0.43		
UJ-Eastern - 1	CAT Grader 16H - 16' Blade	Grader	29.16	29	1	Diesel	285	0.41		
UJ-Eastern - 1	623G Scraper Elevate 21 CY	Scraper	58.32	58	1	Diesel	359	0.48		
UJ-Eastern - 2	Air Compressor 375 CFM	Air Compressor	234	26	9	Diesel Tier 4	122	0.48		
UJ-Eastern - 2	Case 590 SupN Loader	Rubber Tired Loaders	234	26	9	Diesel	110	0.29		
UJ-Eastern - 2	DMM Deep Soil Mixer	Trencher	234	26	9	Diesel	808	0.5		
UJ-Eastern - 2	DMM Grout Mix Plant	Other Industrial Equipmen	234	26	9	Diesel	500	0.34		
UJ-Eastern - 2	Grove RT Crane 30T	Crane	234	26	9	Diesel	160	0.74		
UJ-Eastern - 2	Portable 90 Kw Diesel	Generators	26	26	1	Diesel Tier 4	158	0.36		
UJ-Eastern - 2	Water Pump 4" Electric	Pumps	506.8	26	19	Diesel	10	0.74		
UJ-Eastern - 3	CAT CB-634D Vibratory 84"	Rollers	1511.6	261	6	Diesel	145	0.38		
UJ-Eastern - 3	CAT Grader 16H	Graders	1511.6	261	6	Diesel	285	0.41		
UJ-Eastern - 3	CAT D8 Dozer	Crawler Tractor	1511.6	261	6	Diesel	328	0.43		
UJ-Eastern - 4	CAT Hyd Excavator 1CY	Excavator	7.1	12	1	Diesel	138	0.38		
UJ-Eastern - 4	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	7.1	12	1	Diesel or Hybrid	130	0.36		
UJ-Eastern - 6	1600 CFM Compressor Diesel	Air Compressor	293.1	52	6	Diesel Tier 4	540	0.48		
UJ-Eastern - 6	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	293.1	52	6	Diesel or Hybrid	130	0.36		
UJ-Eastern - 6	Hydraulic 55 Ton Crane	Crane	586.3	52	11	Diesel	350	0.29		
UJ-Eastern - 6	Manitowoc 777 200 Ton Crane	Crane	375.1	52	7	Diesel	760	0.29		
UJ-Eastern - 6	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	293.1	52	6	Diesel	8	0.56		
UJ-Eastern - 6	Slurry Wall Techniwell	Pumps	293.1	52	6	Diesel	500	0.74		
UJ-Eastern - 7	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	289.9	38	8	Diesel or Hybrid	130	0.36		
UJ-Eastern - 7	250 CFM Compressor Diesel	Air Compressor	4.3	38	0.1	Diesel Tier 3	75	0.48		
UJ-Eastern - 7	CAT Hyd Excavator 1CY	Excavator	289.9	38	8	Diesel	138	0.38		
UJ-Eastern - 8	Manitowoc 777 200 Ton Crane	Crane	272.3	41	7	Diesel	760	0.29		
UJ-Eastern - 9	Manitowoc 777 200 Ton Crane	Crane	120.5	15	8	Diesel	760	0.29		
UJ-Eastern - 9	Hydraulic 40 Ton Crane	Crane	39.1	15	3	Diesel	300	0.29		
UJ-Eastern - 9	Hydraulic 25 Ton Crane	Crane	83	15	6	Diesel	100	0.29		
UJ-Eastern - 10	Dewater Pump 6"	Pump	434.3	8	54	Diesel	50	0.74		
UJ-Eastern - 10	150 KW Diesel Generator	Generator	108.6	8	14	Diesel Tier 4	183	0.74		
UJ-Eastern - 10	Hydraulic 15 Ton Crane	Crane	108.6	8	14	Diesel	100	0.29		
UJ-Eastern - 11	Manitowoc 777 200 Ton Crane	Crane	38.2	7	5	Diesel	760	0.29		
UJ-Eastern - 11	250 CFM Compressor Diesel	Air Compressor	8.9	7	1	Diesel Tier 3	75	0.48		
UJ-Eastern - 11	Trailer Conc Pump 100 CY HR	Pump	8.9	7	1	Diesel	200	0.74		
UJ-Eastern - 12	250 CFM Compressor Diesel	Air Compressor	128.8	20	6	Diesel Tier 3	75	0.48		
UJ-Eastern - 12	Manitowoc 777 200 Ton Crane	Crane	128.8	20	6	Diesel	760	0.29		
UJ-Eastern - 13	250 CFM Compressor Diesel	Air Compressor	537.6	61	9	Diesel Tier 3	75	0.29		
UJ-Eastern - 13	Hydraulic 9 Ton Crane	Crane	65.1	61	1	Diesel	85	0.48		
UJ-Eastern - 13	Manitowoc 777 200 Ton Crane	Crane	110.7	61	2	Diesel	760	0.74		
UJ-Eastern - 13	Manitowoc 999-275 Ton Crane	Crane	139.3	61	2	Diesel	900	0.29		
UJ-Eastern - 13	Trailer Conc Pump 100 CY HR	Pump	348.7	61	6	Diesel	200	0.29		
UJ-Eastern - 14	Hydraulic 9 Ton Crane	Crane	54.3	7	8	Diesel	85	0.29		
UJ-Eastern - 14	Hydraulic 40 Ton Crane	Crane	54.3	7	8	Diesel	300	0.29		
UJ-Eastern - 14	CAT Forklift 5,500 LB	Aerial Lift	54.3	7	8	Diesel	63	0.31		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Upper Jones - Eastern Tunnel Shaft
Options 10A, 10B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
UJ-Eastern - 2	Water Pump 4" Electric	506.8	26	1	0.159
UJ-Eastern - 13	Axial Fan 114,000 CFM	65	61	50	53

Vehicle Inventory for Upper Jones - Eastern Tunnel Shaft
Options 10A, 10B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/Trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
UJ-Eastern - 1	Truck, Flatbed, 10T, Hwy	Scrapper to and from Stockton	2	0.9	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 1	Truck, Flatbed, 10T, Hwy	Dozer and Grader from Stockton	1	0.9	0.4	2	2.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 2	Pickup 1/2T 2 WD	Materials from Stockton	26	506.8	0.4	1170	45	Upper Jones Shaft to/from Stockton	13	26	Hybrid Gasoline	
UJ-Eastern - 2	Truck Flatbed 4 T Highway	Materials from Stockton	26	506.8	0.4	1170	45	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 2	Mechanic Truck	Materials from Stockton	26	506.8	0.4	1170	45	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 2	Truck, Flatbed, 10T, Hwy	Crane, Loader, & Other Equipment to and from Stockton	2	2.6	0.4	6	3.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 3	Highway Dump Truck 18 CY	Materials from Stockton	261	1511.6	0.4	3488	13	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 3	Truck/ End Dump/ 16-20cy Hwy	Soil Material in Covered Trucks from Lower Roberts Launch Shaft	261	2153.0	0.5	4306	16	Upper Jones Shaft to/from Lower Roberts Launch Shaft	15	30	Diesel	
UJ-Eastern - 3	Truck, Flatbed, 10T, Hwy	Roller to and from Stockton	2	0.9	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 3	Truck, Flatbed, 10T, Hwy	Dozer and Grader to Stockton	1	0.9	0.4	2	2.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 3	Truck, Flatbed, 10T, Hwy	Materials from Stockton	261	43.8	0.4	101	0.4	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 4	Truck, Flatbed, 10T, Hwy	Excavator and Loader from Stockton	1	0.9	0.4	2	2.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 4	Truck Flatbed 4 T Highway	Rebar from Livermore	12	1.3	1.3	1	0	Upper Jones Shaft to/from Livermore	38	76	Diesel	
UJ-Eastern - 4	Concrete Transit Mix Truck* 12cy	Concrete from Stockton	12	11.3	0.4	26	2	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 5	Truck Flatbed 4 T Highway	Rebar from Livermore	3	1.3	1.3	1	0	Upper Jones Shaft to/from Livermore	38	76	Diesel	
UJ-Eastern - 5	Concrete Transit Mix Truck* 12cy	Concrete from Stockton	3	12.1	0.4	28	9	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 6	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	52	424.0	2.0	212	4	Upper Jones Shaft to/from Sacramento	60	120	Diesel	
UJ-Eastern - 6	Truck Flatbed 4 T Highway	Rebar from Livermore	52	41.8	1.3	33	1	Upper Jones Shaft to/from Livermore	38	76	Diesel	
UJ-Eastern - 6	Concrete Transit Mix Truck* 12cy	Concrete from Stockton	52	334.5	0.4	772	15	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	0.9	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	0.4	0.4	1	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 7	Truck, Flatbed, 10T, Hwy	Excavator and Loader to Stockton	1	0.9	0.4	2	2.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 7	Truck Flatbed 4 T Highway	Rebar from Livermore	38	1.3	1.3	1	0	Upper Jones Shaft to/from Livermore	38	76	Diesel	
UJ-Eastern - 7	Concrete Transit Mix Truck* 12cy	Concrete from Stockton	38	6.1	0.4	14	0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 9	Truck Flatbed 4 T Highway	Rebar from Livermore	15	10.1	1.3	8	1	Upper Jones Shaft to/from Livermore	38	76	Diesel	
UJ-Eastern - 9	Concrete Transit Mix Truck* 12cy	Concrete from Stockton	15	227.5	0.4	525	35	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 9	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	0.9	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 9	Truck, Flatbed, 10T, Hwy	Cranes from Stockton	1	0.4	0.4	1	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 10	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	0.9	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 11	Truck Flatbed 4 T Highway	Rebar from Livermore	7	1.3	1.3	1	0.1	Upper Jones Shaft to/from Livermore	38	76	Diesel	
UJ-Eastern - 11	Concrete Transit Mix Truck* 12cy	Concrete from Stockton	7	16.5	0.4	38	5	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 12	Truck Flatbed 4 T Highway	Rebar from Livermore	20	2.5	1.3	2	0.1	Upper Jones Shaft to/from Livermore	38	76	Diesel	
UJ-Eastern - 13	Concrete Transit Mix Truck* 12cy	Concrete from Stockton	61	171.6	0.4	396	6	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	0.4	0.4	1	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	0.9	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 14	Truck, Flatbed, 10T, Hwy	Forklift to and from Stockton	2	0.9	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 14	Truck, Flatbed, 10T, Hwy	Materials from Stockton	7	54.3	0.4	125	18	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 14	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	0.4	0.4	1	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site										Miles On-Site		
UJ-Eastern - 4	CAT 730 Rear Dump	Dumper	12	21.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		109	Diesel or Hybrid	
UJ-Eastern - 6	CAT 730 Rear Dump	Dumper	52	311.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1558	Diesel or Hybrid	
UJ-Eastern - 6	Articulated Rear Dump 22 CY/CAT 730	Dumper	52	273.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1367	Diesel or Hybrid	
UJ-Eastern - 6	Concrete Pumbo Truck	Off Highway Truck	52	586.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2932	Diesel	

Employees Required to Upper Jones - Eastern Tunnel Shaft
Options 10A, 10B

Code	Employee Type	Hours	# WorkDay		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
UJ-Eastern - 1	General Foreman	14.58	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 1	Dozer Operator	29.16	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 1	Grader Operator	29.16	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 1	Operator G4 Grade Check	14.58	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 1	Scraper Operator	58.32	10		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-1		145.8				
UJ-Eastern - 2	Laborer G2 General	1476	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 2	Operator G3a Crane	492	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 2	Operator G3 BH Loader	492	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 2	Operating Engineer	492	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 2	Operator G4 Grade Check	492	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 2	Operator G4 Heavy Duty Mechanic	492	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 2	Operator G2 Plant Operator	984	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 2	Teamster G1 Hwy	492	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 2	Teamster G2 Hwy	492	10		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-2		5904				
UJ-Eastern - 3	Grade Setter / Checker	1467.54	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 3	Water Truck Highway	1467.54	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 3	Compactor Operator	1467.54	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 3	Dozer Operator	1467.54	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 3	Grader Operator	1467.54	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 3	Truck Driver	1467.54	10		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-3		8805.24				
UJ-Eastern - 4	Shifter	6.5	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 4	Lead Miner	6.5	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 4	Miner	6.5	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 4	Loader Operator	6.5	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 4	Excavator Operator	6.5	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 4	Truck Driver	19.44	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 4	Carpenter	386.4	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 4	Carpenter Foreman	96.6	10		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-4		534.94				
UJ-Eastern - 5	General Laborer	11.92	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 5	Carpenter	103.83	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 5	Carpenter Foreman	43.84	10		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-5		159.59				
UJ-Eastern - 6	General Laborer	2878.43	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	General Foreman	521.69	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Mechanic Welder	521.69	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Shaft Crane Operator	521.69	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Crane Oiler	521.69	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Truck Driver	503.37	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Shifter	810	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Lead Miner	270	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Miner	2160	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Hyd Crane Operator	540	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Loader Operator	270	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Slurry Wall Consultant	270	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Iron Worker Foreman	540	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Iron Worker	2700	24		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-6		13028.56				
UJ-Eastern - 7	Hydraulic Excavator to 3.5	267	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 7	Loader Operator	267	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 7	Excavator Operator	267	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 7	Hyd Track Drill	267	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 7	General Laborer	833.68	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 7	General Foreman	267	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 7	Carpenter	40	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 7	Carpenter Foreman	10	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 7	Iron Worker Foreman	12.68	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 7	Iron Worker	50.74	24		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-7		2282.1				
UJ-Eastern - 8	Diver Contractor	220	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 8	Shaft Crane Operator	231	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 8	Toplander	231	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 8	Crane Oiler	231	24		Stockton to/from Upper Jones Shaft	13

TOTAL UJ-Eastern-8		913			
UJ-Eastern - 9	Diver Contractor	138.74	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 9	Shifter	166.12	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 9	Lead Miner	19.12	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 9	Miner	446.95	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 9	Hyd Crane Operator	112.47	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 9	Toplander	255	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 9	Bottomlander	111	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 9	Shaft Crane Operator	111	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 9	Iron Worker Foreman	147	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 9	Iron Worker	1176	24	Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-9		2683.4			
UJ-Eastern - 10	Shifter	100	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 10	Lead Miner	100	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 10	Miner	800	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 10	Hyd Crane Operator	100	24	Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-10		1100			
UJ-Eastern - 11	Shifter	35.2	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Miner	119.6	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Shaft Crane Operator	35.2	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Toplander	35.2	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Crane Oiler	35.2	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Iron Worker	216	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Iron Worker Foreman	27	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Lead Miner	8.2	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Mechanic Welder	8.2	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Electrician	8.2	10	Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-11		528			
UJ-Eastern - 12	Shaft Crane Operator	118.67	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 12	Toplander	118.67	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 12	Bottomlander	118.67	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 12	Crane Oiler	118.67	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 12	Iron Worker	949.36	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 12	Iron Worker Foreman	118.67	10	Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-12		1542.71			
UJ-Eastern - 13	Shifter	495.19	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Lead Miner	495.19	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Miner	3861.55	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Mechanic / Welder	430.89	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Electrician	264.86	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Hyd Crane Operator	60	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Shaft Crane Operator	230	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Toplander	230	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Bottomlander	102	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Crane Oiler	178	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Concrete Pump Operator	64.3	10	Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-13		6412.97			
UJ-Eastern - 14	Bullgang Foreman	50	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 14	Bullgang Laborer	100	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 14	Mechanic / Welder	50	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 14	Hyd Crane Operator	100	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 14	Flat Truck Driver	50	10	Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-14		350			

Marine Inventory for Upper Jones - Eastern Tunnel Shaft
Options 10A, 10B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Upper Jones - Eastern Tunnel Shaft
Options 10A, 10B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Upper Jones - Eastern Tunnel Shaft
Options 10A, 10B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Upper Jones - Eastern Tunnel Shaft
Options 10A, 10B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
UJ-Eastern - 1	13.1	16	1								
UJ-Eastern - 3		261				66525.6	255				

Demolition Assumptions for Upper Jones - Eastern Tunnel Shaft
Options 10A, 10B

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Bethany Park and Ride

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Excavation	BethanyPR-1	10/29/2026	11/3/2026	5	5	10
Culvert Pipe	BethanyPR-2	11/4/2026	11/4/2026	1	1	10
Subdrain System	BethanyPR-3	11/5/2026	11/5/2026	1	1	10
Road Base	BethanyPR-4	11/6/2026	11/9/2026	4	4	10
Asphalt Paving	BethanyPR-5	11/10/2026	11/11/2026	2	2	10
Electrical, Striping, and K-Rail Installation	BethanyPR-6	11/12/2026	11/12/2026	1	1	10

Acres

2.6

Construction Schedule for Byron Park and Ride

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	BPR -1	8/18/2026	9/4/2026	13	5	10
Embankment	BPR -2	9/7/2026	9/8/2026	2	2	10
Culvert Pipe	BPR -3	9/9/2026	9/14/2026	3	3	10
Subdrain System	BPR -4	9/15/2026	9/21/2026	5	5	10
Road Base	BPR -5	9/22/2026	10/8/2026	12	5	10
Asphalt Paving	BPR -6	10/9/2026	10/23/2026	10	5	10
Electrical, Striping, and K-Rail Installation	BPR -7	10/26/2026	10/29/2026	3	3	10

Acres

2.91

Construction Schedule for Bruns Complex Rds - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	BrCmplxRd-C&E Access -1	3/12/2027	3/15/2027	4	4	10
Embankment	BrCmplxRd-C&E Access -2	3/16/2027	3/16/2027	1	1	10
Culvert Pipe	BrCmplxRd-C&E Access -3	3/17/2027	3/17/2027	1	1	10
Bridge over Byron Highway	BrCmplxRd-C&E Access -4	3/17/2027	6/1/2027	54	5	10
Subdrain System	BrCmplxRd-C&E Access -5	3/18/2027	3/22/2027	5	5	10
Road Base	BrCmplxRd-C&E Access -6	3/23/2027	3/24/2027	2	2	10
Asphalt Paving	BrCmplxRd-C&E Access -7	6/2/2027	6/3/2027	2	2	10
KRail and Signs	BrCmplxRd-C&E Access -8	6/4/2027	6/4/2027	1	1	10
Intermediate Overlay	BrCmplxRd-C&E Access -9	5/13/2030	5/14/2030	2	2	10
Final Overlay	BrCmplxRd-C&E Access -10	6/29/2037	7/1/2037	3	3	10

Acres

5.3

Construction Schedule for Discovery Bay Rd Extension - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	DBExt-C&E Access -1	11/10/2026	11/13/2026	4	4	10
Embankment	DBExt-C&E Access -2	11/16/2026	11/20/2026	5	5	10
Culvert Pipe	DBExt-C&E Access -3	11/23/2026	11/24/2026	2	2	10
Subdrain System	DBExt-C&E Access -4	11/25/2026	12/7/2026	10	5	10
Road Base	DBExt-C&E Access -5	12/8/2026	12/22/2026	11	5	10
Asphalt Paving	DBExt-C&E Access -6	12/23/2026	12/30/2026	6	5	10
KRail and Signs	DBExt-C&E Access -7	12/31/2026	12/31/2026	1	1	10
Intermediate Overlay	DBExt-C&E Access -8	5/7/2030	5/8/2030	2	2	10
Final Overlay	DBExt-C&E Access -9	6/8/2037	6/10/2037	3	3	10

Acres

4.6

Construction Schedule for Western Farm Rd - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	WFRd-C&E Access -1	10/9/2026	10/14/2026	5	5	10
Embankment	WFRd-C&E Access -2	10/15/2026	10/19/2026	5	5	10
Culvert Pipe	WFRd-C&E Access -3	10/20/2026	10/20/2026	1	1	10
Subdrain System	WFRd-C&E Access -4	10/21/2026	10/27/2026	5	5	10
Road Base	WFRd-C&E Access -5	10/28/2026	11/9/2026	11	5	10
Asphalt Paving	WFRd-C&E Access -6	11/10/2026	11/17/2026	6	5	10
KRail and Signs	WFRd-C&E Access -7	11/18/2026	11/18/2026	1	1	10
Intermediate Overlay	WFRd-C&E Access -8	5/20/2030	5/21/2030	2	2	10
Final Overlay	WFRd-C&E Access -9	6/10/2037	6/12/2037	3	3	10

Acres

2

Construction Schedule for Southern Complex on Byron Tract - Eastern						
Option 10						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Rail Features in Northern Southern Forebay	SF - Eastern - 1	1/5/2026	10/22/26	207	5	10
Rail Features in the Southern portion of Southern Forebay	SF - Eastern - 2	1/5/2026	4/2/2027	323	5	10
Rail Yard	SF - Eastern - 3	3/30/2026	3/19/2027	253	5	10
Byron Highway Interchange	SF - Eastern - 4	4/27/2026	3/11/2027	227	5	10
Pumping Plant Initial Site Work	SF - Eastern - 5	7/21/2027	8/20/2027	21	5	10
Pumping Plant Ground Improvement	SF - Eastern - 6	8/5/2027	4/18/2028	184	5	10
Pumping Plant Construction Phase 1	SF - Eastern - 7	3/26/2027	3/30/2028	264	5	10
Pumping Plant Contractor Operations	SF - Eastern - 8	7/21/2027	8/11/2032	1320	5	10
Pumping Plant Substation	SF - Eastern - 9	12/24/2029	12/2/2030	245	5	10
Pumping Plant Structure Phase 1	SF - Eastern - 10	3/17/2027	7/22/2027	91	5	10
Pumping Plant Structure Phase 2	SF - Eastern - 11	12/24/2029	3/4/2031	311	5	10
Pumping Plant Structure Phase 3	SF - Eastern - 12	11/21/2030	12/13/2033	799	5	10
Pumping Plant Wet Well	SF - Eastern - 13	3/6/2031	11/14/2034	964	5	10
Pumping Plant Outlet Structure	SF - Eastern - 14	8/2/2032	4/17/2035	706	5	10
Pumping Plant Dissipation Slab Phase 1A	SF - Eastern - 15A	12/18/2031	12/22/2032	264	5	10
Pumping Plant Dissipation Slab Phase 1B	SF - Eastern - 15B	1/10/2035	7/23/2036	400	5	10
Pumping Plant Electrical Building	SF - Eastern - 16	1/10/2035	9/17/2035	179	5	10
Pumping Plant Generator Building	SF - Eastern - 17	9/17/2035	11/8/2035	37	5	10
Pumping Plant HVAC	SF - Eastern - 18	10/11/2035	11/27/2035	34	5	10
Pumping Plant Finish Site Work	SF - Eastern - 19	9/17/2035	3/6/2037	383	5	10
Pumping Plant Finish Work Phase 1	SF - Eastern - 20	6/8/2033	8/8/2036	826	5	10
Pumping Plant Finish Work Phase 2	SF - Eastern - 21	12/3/2031	1/14/2036	1074	5	10
Pumping Plant Pumping Equipment	SF - Eastern - 22	6/19/2036	7/1/2037	269	5	10
Southern Forebay Site Preparation	SF - Eastern - 23	4/26/2028	12/7/2028	161	5	10
Southern Forebay Clear and Grub	SF - Eastern - 24	4/26/2028	1/4/2029	181	5	10
Southern Forebay Foundations	SF - Eastern - 25	4/26/2028	12/7/2029	445	5	10
Southern Forebay Embankments	SF - Eastern - 26	4/26/2030	7/6/2035	1355	5	10
Southern Forebay Soil Materials Handling	SF - Eastern - 27	6/7/2028	2/20/2035	1749	5	10
Southern Forebay Temporary Facilities During Construction	SF - Eastern - 28	3/1/2028	5/13/2036	2139	5	10
Southern Forebay Embankment Finish Work	SF - Eastern - 29	7/6/2035	7/23/2036	274	5	10
Southern Forebay Spillway	SF - Eastern - 30	9/5/2034	5/23/2035	186	5	10
Southern Forebay Outlet Structure	SF - Eastern - 31	1/27/2034	3/18/2036	558	5	10
Southern Forebay Inlet Structure	SF - Eastern - 32	5/23/2035	11/28/2035	135	5	10
Tunnel Launch Shaft Site Preparation for Shafts from Southern Forebay to South Delta Conveyance	SF - Eastern - 33	11/21/2029	11/14/2030	256	5	10
Raise Tunnel Eastern Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5E)	SF - Eastern - 34	11/21/2029	4/17/2031	366	5	10
Finalize Tunnel Eastern Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5E)	SF - Eastern - 35	4/18/2031	8/19/2031	88	5	10

Construct Tunnel from Eastern Shaft at Southern Forebay Outlet to South Delta Conveyance (called Shaft 5E)	SF - Eastern - 36	8/20/2031	10/14/2032	361	6	20
Finish Work for Tunnel Eastern Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5E)	SF - Eastern - 37	10/15/2032	11/25/2032	29	5	10
Raise Tunnel Western Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5W)	SF - Eastern - 38	7/31/2030	5/16/2034	989	5	10
Finalize Tunnel Western Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5W)	SF - Eastern - 39	11/28/2031	1/7/2033	290	5	10
Construct Tunnel from Western Shaft at Southern Forebay Outlet to South Delta Conveyance (called Shaft 5W)	SF - Eastern - 40	1/10/2033	4/11/2034	391	6	20
Finish Work for Tunnel Western Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5W)	SF - Eastern - 41	4/12/2034	5/31/2034	35	5	10
Tunnel Launch Shaft Site Preparation for Shaft at Northern portion of Southern Forebay	SF - Eastern - 42	10/12/2029	9/29/2039	2599	5	10
Raise Tunnel Shaft at Northern portion of Southern Forebay	SF - Eastern - 43	7/26/2030	6/25/2031	239	5	10
Finalize Tunnel Shaft at Northern portion of Southern Forebay	SF - Eastern - 44	6/25/2031	10/31/2031	91	5	10
Tunnel Launch Working Shaft Site Preparation at Northern portion of Southern Forebay	SF - Eastern - 45	12/7/2029	7/26/2030	165	5	10
Raise Tunnel Working Shaft at Northern portion of Southern Forebay	SF - Eastern - 46	3/8/2030	11/18/2031	443	5	10
Finalize Tunnel Working Shaft at Northern portion of Southern Forebay	SF - Eastern - 47	11/18/2031	2/9/2032	59	5	10
Construct Tunnel from Southern Forebay to Reception Shaft	SF - Eastern - 48	10/31/2031	6/23/2039	2393	6	20
Finish Work for Tunnel from Southern Forebay to Reception Shaft	SF - Eastern - 49	6/23/2039	9/29/2039	70	5	10
Erect Batch Plant #1	SF - Eastern - 50	6/16/2027	8/11/2027	40	5	10
Erect Batch Plant #2	SF - Eastern - 51	6/25/2030	8/19/2030	39	5	10
Operate Concrete Batch Plant	SF - Eastern - 52	4/30/2027	4/24/2037	2602	5	10
Intermediate Access Road Overlays	SF - Eastern - 53	11/24/2039	12/9/2039	11	5	10
Final Access Road Overlays	SF - Eastern - 54	11/3/2025	11/17/2025	10	5	10
Site Restoration	SF - Eastern - 55	3/18/2036	1/7/2037	211	5	10
Total Site Acres	1700					

**Vehicle Inventory for Southern Complex on Byron Tract - Eastern
Option 10**

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
SF - Eastern - 1	Air Compressor 185 cfm	Air Compressor	8.9	207	0.0	Diesel Tier 4	49	0.48		
SF - Eastern - 1	CAT Forklift 5,500 LB	Aerial Lift	799.7	207	3.9	Diesel	63	0.31		
SF - Eastern - 1	Grove RT Crane 30T	Crane	319.9	207	1.5	Diesel	160	0.29		
SF - Eastern - 1	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	4.4	207	0.0	Diesel	75	0.31		
SF - Eastern - 1	Boom Truck, 12.5 Tn Boom	Crane	4.4	207	0.0	Diesel or Hybrid	100	0.29		
SF - Eastern - 2	Air Compressor 185 cfm	Air Compressor	44.4	323	0.1	Diesel Tier 4	49	0.48		
SF - Eastern - 2	Boom Truck, 12.5 Tn Boom	Crane	22.2	323	0.1	Diesel or Hybrid	100	0.29		
SF - Eastern - 2	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	22.2	323	0.1	Diesel	75	0.31		
SF - Eastern - 2	CAT Forklift 5,500 LB	Aerial Lift	4000.3	323	12.4	Diesel	63	0.31		
SF - Eastern - 2	Grove RT Crane 55T, 247 hp	Crane	1600.1	323	5.0	Diesel	247	0.29		
SF - Eastern - 3	CAT 14 M	Grader	853.3	253	3.4	Diesel	274	0.41		
SF - Eastern - 3	CAT 825, Roller	Roller	466.1	253	1.8	Diesel	315	0.38		
SF - Eastern - 3	CAT 962 H Wheel Loader	Rubber Tired Loader	620.2	253	2.5	Diesel	230	0.36		
SF - Eastern - 3	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	620.2	253	2.5	Diesel	158	0.38		
SF - Eastern - 3	CAT D6LGPDozer w winch	Crawler Tractor	1799.2	253	7.1	Diesel or Hybrid	179	0.43		
SF - Eastern - 3	CAT LOADER/HOE 416 E	Rubber Tired Loaders	2613.1	253	10.3	Diesel	78	0.36		
SF - Eastern - 3	Compactor, Trench Roller, Vib 32" w	Rollers	378.7	253	1.5	Diesel	20	0.38		
SF - Eastern - 3	Disk, Towed	Off Highway Tractor	466.1	253	1.8	Diesel	140	0.44		
SF - Eastern - 3	Grove RT Crane 55T, 247 hp	Crane	2423.8	253	9.6	Diesel	247	0.29		
SF - Eastern - 3	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	363.6	253	1.4	Diesel	384	0.38		
SF - Eastern - 3	Water Pump, 4" Diesel	Pumps	180	253	0.7	Diesel	10	0.74		
SF - Eastern - 4	Air Compressor 375 cfm	Air Compressor	30.4	227	0.1	Diesel Tier 4	122	0.48		
SF - Eastern - 4	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	311.9	227	1	Diesel or Hybrid	224	0.42		
SF - Eastern - 4	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	311.9	227	1	Diesel or Hybrid	137	0.38		
SF - Eastern - 4	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	311.9	227	1	Diesel or Hybrid	133	0.38		
SF - Eastern - 4	CAT 14 M	Grader	646.9	227	2.8	Diesel	274	0.41		
SF - Eastern - 4	CAT 815, Roller	Roller	203.4	227	0.9	Diesel	170	0.38		
SF - Eastern - 4	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	545.3	227	2.4	Diesel	158	0.38		
SF - Eastern - 4	CAT D6LGPDozer w winch	Crawler Tractor	470.7	227	2.1	Diesel or Hybrid	179	0.43		
SF - Eastern - 4	CAT LOADER/HOE 416 E	Rubber Tired Loaders	477.9	227	2.1	Diesel	78	0.36		
SF - Eastern - 4	Compactor, Plate, 22" w x 35"	Plate Compactors	30.4	227	0.1	Diesel	8.5	0.43		
SF - Eastern - 4	Compactor, Trench Roller, Vib 32" w Disk,	Rollers	140	227	0.6	Diesel	20	0.38		
SF - Eastern - 4	Towed	Off Highway Tractor	203.4	227	0.9	Diesel	140	0.44		
SF - Eastern - 4	Grove RT Crane 55T, 247 hp	Crane	1424.2	227	6.3	Diesel	247	0.29		
SF - Eastern - 4	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	267.3	227	1.2	Diesel	384	0.38		
SF - Eastern - 4	Light Plant, 4 lite, 1000w, Tower/Mast	Generator	813.4	227	3.6	Diesel	12	0.74		
SF - Eastern - 4	Manitowoc 555 150T, 250' Boom Water	Crane	1424.2	227	6.3	Diesel	760	0.29		
SF - Eastern - 4	Pump, 4" Diesel	Pumps	569.7	227	2.5	Diesel	10	0.74		
SF - Eastern - 5	CAT 14 M	Grader	337.3	21	15.7	Diesel	274	0.41		
SF - Eastern - 5	CAT 988 H Wheel Loader	Rubber Tired Loader	121.8	21	5.7	Diesel	400	0.36		
SF - Eastern - 5	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	121.8	21	5.7	Diesel	158	0.38		
SF - Eastern - 5	CAT D3 LGF, Dozer	Crawler Tractor	187.2	21	8.7	Diesel or Hybrid	76	0.43		
SF - Eastern - 5	CAT D6LGPDozer w winch	Crawler Tractor	187.2	21	8.7	Diesel or Hybrid	179	0.43		
SF - Eastern - 5	CAT IT28H, 10640 LB Tool Carrier Water	Rubber Tired Loaders	187.2	21	8.7	Diesel	145	0.36		
SF - Eastern - 5	Pump, 6" Diesel	Pumps	121.8	21	5.7	Diesel	13	0.74		
SF - Eastern - 5	Water Pump, 3" Gas, Diaphragm	Pumps	187.2	21	8.7	Gasoline	10	0.74		
SF - Eastern - 6	Air Compressor 185 cfm	Air Compressor	925.4	184	5.0	Diesel Tier 4	49	0.48		
SF - Eastern - 6	Air Compressor 375 cfm	Air Compressor	14900	184	81	Diesel Tier 4	122	0.48		
SF - Eastern - 6	Boom Truck, 12.5 Tn Boom	Crane	462.7	184	2.5	Diesel or Hybrid	100	0.29		
SF - Eastern - 6	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	14900	184	81	Diesel	110	0.36		
SF - Eastern - 6	DMM Deep Soil Mixer, 3 Shaft,	Bore Drill Rig	14900	184	81	Diesel	522	0.5		
SF - Eastern - 6	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	14900	184	81	Diesel	500	0.34		
SF - Eastern - 6	Grove RT Crane 30T	Crane	14900	184	81	Diesel	160	0.29		
SF - Eastern - 6	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	462.7	184	2.5	Diesel	75	0.31		
SF - Eastern - 6	Portable, 90 Kw, Diesel, 158HP	Welders	1472	184	8	Diesel Tier 4	158	0.45		
SF - Eastern - 7	Air Compressor 185 cfm	Air Compressor	3385.2	264	12.8	Diesel Tier 4	49	0.48		
SF - Eastern - 7	Boom Truck, 12.5 Tn Boom	Crane	1692.6	264	6.4	Diesel or Hybrid	100	0.29		
SF - Eastern - 7	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	936	264	3.5	Diesel	110	0.36		
SF - Eastern - 7	CAT 14 M	Grader	93.6	264	0.4	Diesel	274	0.41		
SF - Eastern - 7	Cat 613 C Self Loading Scraper	Scraper	187.2	264	0.7	Diesel	187	0.48		
SF - Eastern - 7	CAT 950 H Wheel Loader	Rubber Tired Loaders	936	264	3.5	Diesel or Hybrid	130	0.36		
SF - Eastern - 7	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	93.6	264	0.4	Diesel	158	0.38		
SF - Eastern - 7	CAT D6LGPDozer w winch	Crawler Tractor	93.6	264	0.4	Diesel or Hybrid	179	0.43		
SF - Eastern - 7	CAT LOADER/HOE 416 E	Rubber Tired Loaders	9126	264	34.5	Diesel	78	0.36		
SF - Eastern - 7	Compactor, Plate, 22" w x 35"	Plate Compactors	468	264	1.8	Diesel	8.5	0.43		
SF - Eastern - 7	Disk, Towed	Off Highway Tractor	9126	264	34.5	Diesel	140	0.44		
SF - Eastern - 7	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	4563	264	17.3	Diesel	80	0.44		
SF - Eastern - 7	Grove RT Crane 30T	Crane	164.8	264	0.6	Diesel	160	0.29		
SF - Eastern - 7	Grove RT Crane 80T, 275hp	Crane	164.8	264	0.6	Diesel	275	0.29		
SF - Eastern - 7	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	1775	264	6.7	Diesel	75	0.31		
SF - Eastern - 7	Water Pump, 4" Diesel	Pumps	93.6	264	0.4	Diesel	10	0.74		
SF - Eastern - 8	Air Compressor 900 cfm	Air Compressor	12168	1320	9.2	Diesel Tier 4	300	0.48		
SF - Eastern - 8	CAT 12 M	Grader	1676.4	1320	1.3	Diesel	173	0.41		
SF - Eastern - 8	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	1676.4	1320	1.3	Diesel	158	0.38		
SF - Eastern - 8	CAT LOADER/HOE 416 E	Rubber Tired Loaders	8382.1	1320	6.4	Diesel	78	0.36		
SF - Eastern - 8	Manitowoc 999-275 Ton Crane	Crane	24336	1320	18.4	Diesel	900	0.29		
SF - Eastern - 8	Portable, 90 Kw, Diesel, 158HP	Welders	24336	1320	18.4	Diesel Tier 4	158	0.45		
SF - Eastern - 8	Trk Crane, 200tn Hyd, 197bm, 563hp	Crane	24336	1320	18.4	Diesel	563	0.29		
SF - Eastern - 9	400A Diesel Welder, Trailer Mounted	Welders	397.8	245	1.6	Diesel	22	0.45		
SF - Eastern - 9	Air Compressor 185 cfm	Air Compressor	1170	245	4.8	Diesel Tier 4	49	0.48		
SF - Eastern - 9	Air Compressor 900 cfm	Air Compressor	351	245	1.4	Diesel Tier 4	300	0.48		
SF - Eastern - 9	Boom Truck, 12.5 Tn Boom	Crane	1170	245	4.8	Diesel or Hybrid	100	0.29		
SF - Eastern - 9	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	624	245	2.5	Diesel	110	0.36		
SF - Eastern - 9	CAT 12 M	Grader	7.3	245	0.0	Diesel	173	0.41		
SF - Eastern - 9	CAT 950 H Wheel Loader	Rubber Tired Loaders	97.5	245	0.4	Diesel or Hybrid	130	0.36		
SF - Eastern - 9	CAT 973 Track Loader, 4.2 cy, 263hp	Skid Loader	46.8	245	0.2	Diesel or Hybrid	210	0.37		
SF - Eastern - 9	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	97.5	245	0.4	Diesel	158	0.38		
SF - Eastern - 9	CAT D3 LGF, Dozer	Crawler Tractor	97.5	245	0.4	Diesel or Hybrid	76	0.43		
SF - Eastern - 9	CAT D6LGPDozer w winch	Crawler Tractor	29.3	245	0.1	Diesel or Hybrid	179	0.43		
SF - Eastern - 9	Compactor, Plate, 22" w x 35"	Plate Compactors	312	245	1.3	Diesel	8.5	0.43		
SF - Eastern - 9	Concrete Vibrator, 2"	Other Construction Eq	702	245	2.9	Gasoline	3	0.42		

SF - Eastern - 9	Grove RT Crane 30T	Crane	1170	245	4.8	Diesel	160	0.29
SF - Eastern - 9	Grove RT Crane 55T, 247 hp	Crane	222.3	245	0.9	Diesel	247	0.29
SF - Eastern - 9	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	29.3	245	0.1	Diesel	384	0.38
SF - Eastern - 9	Manitowoc 555 150T, 250' Boom	Crane	46.8	245	0.2	Diesel	760	0.29
SF - Eastern - 9	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	1170	245	4.8	Diesel	75	0.31
SF - Eastern - 9	Portable, 90 Kw, Diesel, 158HP	Welders	351	245	1.4	Diesel Tier 4	158	0.45
SF - Eastern - 10	400A Diesel Welder, Trailer Mounted	Welders	95	91	1.0	Diesel	22	0.45
SF - Eastern - 10	CAT 14 M	Grader	86.8	91	1.0	Diesel	274	0.41
SF - Eastern - 10	CAT 988 H Wheel Loader	Rubber Tired Loader	86.8	91	1.0	Diesel	400	0.36
SF - Eastern - 10	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	86.8	91	1.0	Diesel	158	0.38
SF - Eastern - 10	Grove RT Crane 55T, 247 hp	Crane	190.1	91	2.1	Diesel	247	0.29
SF - Eastern - 10	Portable, 90 Kw, Diesel, 158HP	Welders	95.1	91	1.0	Diesel Tier 4	158	0.45
SF - Eastern - 10	Water Pump, 6" Diesel	Pumps	86.8	91	1.0	Diesel	13	0.74
SF - Eastern - 11	Air Compressor 185 cfm	Air Compressor	1084.7	311	3.5	Diesel Tier 4	49	0.48
SF - Eastern - 11	Bentonite Mix Plant/Desander	Cement & Mortar Mix	10018.6	311	32.2	Diesel Tier 4	100	0.56
SF - Eastern - 11	Boom Truck, 12.5 Tn Boom	Crane	542.4	311	1.7	Diesel or Hybrid	100	0.29
SF - Eastern - 11	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	10018.6	311	32.2	Diesel	110	0.36
SF - Eastern - 11	CAT 14 M	Grader	488.6	311	1.6	Diesel	274	0.41
SF - Eastern - 11	CAT 962 H Wheel Loader	Rubber Tired Loader	10018.6	311	32.2	Diesel	230	0.36
SF - Eastern - 11	CAT 988 H Wheel Loader	Rubber Tired Loader	244.3	311	0.8	Diesel	400	0.36
SF - Eastern - 11	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	244.3	311	0.8	Diesel	158	0.38
SF - Eastern - 11	CAT D6LGPDozer w winch	Crawler Tractor	10018.6	311	32.2	Diesel or Hybrid	179	0.43
SF - Eastern - 11	Grove RT Crane 55T, 247 hp	Crane	10019.9	311	32.2	Diesel	247	0.29
SF - Eastern - 11	Grove RT Crane 80T, 275hp	Crane	10018.6	311	32.2	Diesel	275	0.29
SF - Eastern - 11	Manitowoc 555 150T, 250' Boom	Crane	18593.3	311	59.8	Diesel	760	0.29
SF - Eastern - 11	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	542.4	311	1.7	Diesel	75	0.31
SF - Eastern - 11	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	10018.6	311	32	Diesel	8	0.56
SF - Eastern - 11	Slurry Wall Techniwell	Pumps	10018.6	311	32	Diesel	500	0.74
SF - Eastern - 11	Well Drill	Bore/Drill Rigs	234	311	0.8	Diesel	136	0.5
SF - Eastern - 12	400A Diesel Welder, Trailer Mounted	Welders	3963.1	799	5.0	Diesel	22	0.45
SF - Eastern - 12	Air Compressor 375 cfm	Air Compressor	71.3	799	0.1	Diesel Tier 4	122	0.48
SF - Eastern - 12	Air Compressor 900 cfm	Air Compressor	3169.3	799	4.0	Diesel Tier 4	300	0.48
SF - Eastern - 12	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Construction E	251.7	799	0.3	Diesel	50	0.42
SF - Eastern - 12	Bobcat 5630 Skid Steer Loader	Skid Loader	325	799	0.4	Diesel	74	0.37
SF - Eastern - 12	CAT 14 M	Grader	158.9	799	0.2	Diesel	274	0.41
SF - Eastern - 12	CAT 390 MASS EXC	Excavator	2138.8	799	2.7	Diesel	534	0.38
SF - Eastern - 12	CAT 815, Roller	Roller	317.8	799	0.4	Diesel	170	0.38
SF - Eastern - 12	CAT D6LGPDozer w winch	Crawler Tractor	317.8	799	0.4	Diesel or Hybrid	179	0.43
SF - Eastern - 12	CAT D8Rii, Dozer w winch	Crawler Tractor	1688.4	799	2.1	Diesel	310	0.43
SF - Eastern - 12	Concrete Vibrator, 2"	Other Construction Eq	11675.5	799	14.6	Gasoline	3	0.42
SF - Eastern - 12	Grove RT Crane 15T, 100hp	Crane	441	799	0.6	Diesel	100	0.29
SF - Eastern - 12	Grove RT Crane 55T, 247 hp	Crane	8818.8	799	11.0	Diesel	247	0.29
SF - Eastern - 12	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	1821	799	2.3	Diesel	345	0.38
SF - Eastern - 12	Light Plant, 4 lite, 1000w, Tower/Mast	Generator	187.3	799	0.2	Diesel	12	0.74
SF - Eastern - 12	Manitowoc 555 150T, 250' Boom	Crane	19807.6	799	24.8	Diesel	760	0.29
SF - Eastern - 12	Portable, 20 Kw, Diesel, 36HP	Welders	71.3	799	0.1	Diesel Tier 4	36	0.45
SF - Eastern - 12	Portable, 90 Kw, Diesel, 158HP	Welders	3891.8	799	4.9	Diesel Tier 4	158	0.45
SF - Eastern - 12	Water Pump, 10" Diesel	Pumps	2510.8	799	3.1	Diesel	200	0.74
SF - Eastern - 13	400A Diesel Welder, Trailer Mounted	Welders	1913.3	964	2.0	Diesel	22	0.45
SF - Eastern - 13	Air Compressor 185 cfm	Air Compressor	253.8	964	0.3	Diesel Tier 4	49	0.48
SF - Eastern - 13	Air Compressor 375 cfm	Air Compressor	5.9	964	0.0	Diesel Tier 4	122	0.48
SF - Eastern - 13	Air Compressor 900 cfm	Air Compressor	1907.4	964	2.0	Diesel Tier 4	300	0.48
SF - Eastern - 13	Bentonite Mix Plant/Desander	Cement & Mortar Mix	2280.2	964	2.4	Diesel Tier 4	100	0.56
SF - Eastern - 13	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Construction E	200.7	964	0.2	Diesel	50	0.42
SF - Eastern - 13	Bobcat 5630 Skid Steer Loader	Skid Loader	106.1	964	0.1	Diesel	74	0.37
SF - Eastern - 13	Boom Truck, 12.5 Tn Boom	Crane	126.9	964	0.1	Diesel or Hybrid	100	0.29
SF - Eastern - 13	CAT 12 M	Grader	70.1	964	0.1	Diesel	173	0.41
SF - Eastern - 13	CAT 14 M	Grader	116	964	0.1	Diesel	274	0.41
SF - Eastern - 13	CAT 390 MASS EXC	Excavator	71.8	964	0.1	Diesel	534	0.38
SF - Eastern - 13	CAT 815, Roller	Roller	71.8	964	0.1	Diesel	170	0.38
SF - Eastern - 13	CAT 962 H Wheel Loader	Rubber Tired Loader	2280.2	964	2.4	Diesel	230	0.36
SF - Eastern - 13	CAT 988 H Wheel Loader	Rubber Tired Loader	40.1	964	0.0	Diesel	400	0.36
SF - Eastern - 13	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	40.1	964	0.0	Diesel	158	0.38
SF - Eastern - 13	CAT D3 LGP, Dozer	Crawler Tractor	280.4	964	0.3	Diesel or Hybrid	76	0.43
SF - Eastern - 13	CAT D6LGPDozer w winch	Crawler Tractor	2532	964	2.6	Diesel or Hybrid	179	0.43
SF - Eastern - 13	CAT D8Rii, Dozer w winch	Crawler Tractor	381.2	964	0.4	Diesel	310	0.43
SF - Eastern - 13	Compactor, Plate, 22" w x 35"	Plate Compactors	106.1	964	0.1	Diesel	8.5	0.43
SF - Eastern - 13	Compactor, Trench Roller, Vib 32" w	Rollers	106.1	964	0.1	Diesel	20	0.38
SF - Eastern - 13	Concrete Vibrator, 2"	Other Construction Eq	5722.3	964	5.9	Gasoline	3	0.42
SF - Eastern - 13	Grove RT Crane 55T, 247 hp	Crane	5183.7	964	5.4	Diesel	247	0.29
SF - Eastern - 13	Grove RT Crane 80T, 275hp	Crane	4560.8	964	4.7	Diesel	275	0.29
SF - Eastern - 13	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	280.4	964	0.3	Diesel	384	0.38
SF - Eastern - 13	Manitowoc 555 150T, 250' Boom	Crane	12090.2	964	12.5	Diesel	760	0.29
SF - Eastern - 13	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	126.9	964	0.1	Diesel	75	0.31
SF - Eastern - 13	Portable, 90 Kw, Diesel, 158HP	Welders	1907.4	964	2.0	Diesel Tier 4	158	0.45
SF - Eastern - 13	Water Pump, 10" Diesel	Pumps	1872	964	1.9	Diesel	200	0.74
SF - Eastern - 13	Water Pump, 6" Diesel	Pumps	2320.3	964	2.4	Diesel	13	0.74
SF - Eastern - 14	400A Diesel Welder, Trailer Mounted	Welders	3906.1	706	5.5	Diesel	22	0.45
SF - Eastern - 14	Air Compressor 375 cfm	Air Compressor	214.1	706	0.3	Diesel Tier 4	122	0.48
SF - Eastern - 14	Air Compressor 900 cfm	Air Compressor	3692.1	706	5.2	Diesel Tier 4	300	0.48
SF - Eastern - 14	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Construction E	404.9	706	0.6	Diesel	50	0.42
SF - Eastern - 14	Bobcat 5630 Skid Steer Loader	Skid Loader	1679.5	706	2.4	Diesel	74	0.37
SF - Eastern - 14	CAT 14 M	Grader	297.7	706	0.4	Diesel	274	0.41
SF - Eastern - 14	CAT 390 MASS EXC	Excavator	1123	706	1.6	Diesel	534	0.38
SF - Eastern - 14	CAT 815, Roller	Roller	595.3	706	0.8	Diesel	170	0.38
SF - Eastern - 14	CAT D6LGPDozer w winch	Crawler Tractor	595.3	706	0.8	Diesel or Hybrid	179	0.43
SF - Eastern - 14	CAT D8Rii, Dozer w winch	Crawler Tractor	595.3	706	0.8	Diesel	310	0.43
SF - Eastern - 14	Compactor, Plate, 22" w x 35"	Plate Compactors	1679.5	706	2.4	Diesel	8.5	0.43
SF - Eastern - 14	Compactor, Trench Roller, Vib 32" w	Roller	1679.5	706	2.4	Diesel	20	0.38
SF - Eastern - 14	Concrete Vibrator, 2"	Other Construction Eq	11076.2	706	15.7	Gasoline	3	0.42
SF - Eastern - 14	Grove RT Crane 55T, 247 hp	Crane	3882.7	706	5.5	Diesel	247	0.29
SF - Eastern - 14	Grove RT Crane 80T, 275hp	Crane	467.1	706	0.7	Diesel	275	0.29
SF - Eastern - 14	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	527.7	706	0.7	Diesel	345	0.38
SF - Eastern - 14	Manitowoc 555 150T, 250' Boom	Crane	8996.2	706	12.7	Diesel	760	0.29
SF - Eastern - 14	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	190.7	706	0.3	Diesel	75	0.31
SF - Eastern - 14	Portable, 20 Kw, Diesel, 36HP	Welders	190.7	706	0.3	Diesel Tier 4	36	0.45
SF - Eastern - 14	Portable, 90 Kw, Diesel, 158HP	Welders	3692.1	706	5.2	Diesel Tier 4	158	0.45
SF - Eastern - 14	Vibro Driver/Extractor V208	Other Construction Eq	190.7	706	0.3	Diesel	325	0.42

SF - Eastern - 15A	400A Diesel Welder, Trailer Mounted	Welders	3650.4	264	13.8	Diesel	22	0.45
SF - Eastern - 15A	CAT IT278H, 10640 LB Tool Carrier	Rubber Tired Loaders	3650.4	264	13.8	Diesel	145	0.36
SF - Eastern - 15A	Manitowoc 555 150T, 250' Boom	Crane	3650.4	264	13.8	Diesel	760	0.29
SF - Eastern - 15B	400A Diesel Welder, Trailer Mounted	Welders	1049.9	400	2.6	Diesel	22	0.45
SF - Eastern - 15B	Air Compressor 185 cfm	Air Compressor	93.6	400	0.2	Diesel Tier 4	49	0.48
SF - Eastern - 15B	Air Compressor 375 cfm	Air Compressor	721.2	400	1.8	Diesel Tier 4	122	0.48
SF - Eastern - 15B	Air Compressor 900 cfm	Air Compressor	1049.9	400	2.6	Diesel Tier 4	300	0.48
SF - Eastern - 15B	Bentonite Mix Plant/Desander	Cement & Mortar Mix	721.2	400	1.8	Diesel Tier 4	100	0.56
SF - Eastern - 15B	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Construction E	98.5	400	0.2	Diesel	50	0.42
SF - Eastern - 15B	Bobcat S630 Skid Steer Loader	Skid Loader	305.3	400	0.8	Diesel	74	0.37
SF - Eastern - 15B	Boom Truck, 12.5 Tn Boom	Crane	46.8	400	0.1	Diesel or Hybrid	100	0.29
SF - Eastern - 15B	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	721.2	400	1.8	Diesel	110	0.36
SF - Eastern - 15B	CAT 12 M	Grader	364	400	0.9	Diesel	173	0.41
SF - Eastern - 15B	CAT 14 M	Grader	927.6	400	2.3	Diesel	274	0.41
SF - Eastern - 15B	CAT 953 Track Loader, 2.25cy, 148hp	Skid Loader	721.2	400	1.8	Diesel	148	0.37
SF - Eastern - 15B	CAT 988 H Wheel Loader	Rubber Tired Loader	463.8	400	1.2	Diesel	400	0.36
SF - Eastern - 15B	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	463.8	400	1.2	Diesel	158	0.38
SF - Eastern - 15B	CAT D6LGPDozer w winch	Crawler Tractor	3633	400	9.1	Diesel or Hybrid	179	0.43
SF - Eastern - 15B	Compactor, Plate, 22" w x 35"	Plate Compactors	305.3	400	0.8	Diesel	8.5	0.43
SF - Eastern - 15B	Compactor, Trench Roller, Vib 32" w	Roller	305.3	400	0.8	Diesel	20	0.38
SF - Eastern - 15B	Concrete Vibrator, 2"	Other Construction Eq	3149.6	400	7.9	Gasoline	3	0.42
SF - Eastern - 15B	Grove RT Crane 15T, 100hp	Crane	721.2	400	1.8	Diesel	100	0.29
SF - Eastern - 15B	Grove RT Crane 55T, 247 hp	Crane	1260.5	400	3.2	Diesel	247	0.29
SF - Eastern - 15B	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	1455.9	400	3.6	Diesel	384	0.38
SF - Eastern - 15B	Manitowoc 555 150T, 250' Boom	Crane	3550.1	400	8.9	Diesel	760	0.29
SF - Eastern - 15B	Portable, 90 Kw, Diesel, 158HP	Welders	1049.9	400	2.6	Diesel Tier 4	158	0.45
SF - Eastern - 15B	Water Pump, 6" Diesel	Pumps	1185	400	3.0	Diesel	13	0.74
SF - Eastern - 16	400A Diesel Welder, Trailer Mounted	Welders	352.3	179	2.0	Diesel	22	0.45
SF - Eastern - 16	Air Compressor 185 cfm	Air Compressor	1341.6	179	7.5	Diesel Tier 4	49	0.48
SF - Eastern - 16	Air Compressor 900 cfm	Air Compressor	352.3	179	2.0	Diesel Tier 4	300	0.48
SF - Eastern - 16	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Construction E	111	179	0.6	Diesel	50	0.42
SF - Eastern - 16	Boom Truck, 12.5 Tn Boom	Crane	1341.6	179	7.5	Diesel or Hybrid	100	0.29
SF - Eastern - 16	CAT 950 H Wheel Loader	Rubber Tired Loaders	88.1	179	0.5	Diesel or Hybrid	130	0.36
SF - Eastern - 16	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	88.1	179	0.5	Diesel	158	0.38
SF - Eastern - 16	CAT D3 LGP, Dozer	Crawler Tractor	88.1	179	0.5	Diesel or Hybrid	76	0.43
SF - Eastern - 16	Concrete Vibrator, 2"	Other Construction Eq	704.6	179	3.9	Gasoline	3	0.42
SF - Eastern - 16	Grove RT Crane 30T	Crane	1341.6	179	7.5	Diesel	160	0.29
SF - Eastern - 16	Grove RT Crane 55T, 247 hp	Crane	352.3	179	2.0	Diesel	247	0.29
SF - Eastern - 16	Manitowoc 555 150T, 250' Boom	Crane	352.3	179	2.0	Diesel	760	0.29
SF - Eastern - 16	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	1341.6	179	7.5	Diesel	75	0.31
SF - Eastern - 17	400A Diesel Welder, Trailer Mounted	Welders	94.7	37	2.5	Diesel	22	0.45
SF - Eastern - 17	Air Compressor 185 cfm	Air Compressor	1501.5	37	40.4	Diesel Tier 4	49	0.48
SF - Eastern - 17	Air Compressor 900 cfm	Air Compressor	94.7	37	2.5	Diesel Tier 4	300	0.48
SF - Eastern - 17	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Construction E	29.8	37	0.8	Diesel	50	0.42
SF - Eastern - 17	Boom Truck, 12.5 Tn Boom	Crane	1501.5	37	40.4	Diesel or Hybrid	100	0.29
SF - Eastern - 17	CAT 950 H Wheel Loader	Rubber Tired Loaders	13.3	37	0.4	Diesel or Hybrid	130	0.36
SF - Eastern - 17	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	13.3	37	0.4	Diesel	158	0.38
SF - Eastern - 17	CAT D3 LGP, Dozer	Crawler Tractor	13.3	37	0.4	Diesel or Hybrid	76	0.43
SF - Eastern - 17	Concrete Vibrator, 2"	Other Construction Eq	189.4	37	5.1	Gasoline	3	0.42
SF - Eastern - 17	Grove RT Crane 30T	Crane	1501.5	37	40.4	Diesel	160	0.29
SF - Eastern - 17	Grove RT Crane 55T, 247 hp	Crane	94.7	37	2.5	Diesel	247	0.29
SF - Eastern - 17	Manitowoc 555 150T, 250' Boom	Crane	94.7	37	2.5	Diesel	760	0.29
SF - Eastern - 17	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	1501.5	37	40.4	Diesel	75	0.31
SF - Eastern - 17	Portable, 90 Kw, Diesel, 158HP	Welders	94.7	37	2.5	Diesel Tier 4	158	0.45
SF - Eastern - 18	400A Diesel Welder, Trailer Mounted	Welders	51.6	34	1.5	Diesel	22	0.45
SF - Eastern - 18	Air Compressor 185 cfm	Air Compressor	0.2	34	0.0	Diesel Tier 4	49	0.48
SF - Eastern - 18	Air Compressor 900 cfm	Air Compressor	51.6	34	1.5	Diesel Tier 4	300	0.48
SF - Eastern - 18	Boom Truck, 12.5 Tn Boom	Crane	0.1	34	0.0	Diesel or Hybrid	100	0.29
SF - Eastern - 18	CAT 950 H Wheel Loader	Rubber Tired Loaders	29.5	34	0.9	Diesel or Hybrid	130	0.36
SF - Eastern - 18	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	29.5	34	0.9	Diesel	158	0.38
SF - Eastern - 18	CAT D3 LGP, Dozer	Crawler Tractor	29.5	34	0.9	Diesel or Hybrid	76	0.43
SF - Eastern - 18	Concrete Vibrator, 2"	Other Construction Eq	103.3	34	3.1	Gasoline	3	0.42
SF - Eastern - 18	Grove RT Crane 30T	Crane	0.1	34	0.0	Diesel	160	0.29
SF - Eastern - 18	Grove RT Crane 55T, 247 hp	Crane	51.6	34	1.5	Diesel	247	0.29
SF - Eastern - 18	Manitowoc 555 150T, 250' Boom	Crane	51.6	34	1.5	Diesel	760	0.29
SF - Eastern - 18	Portable, 90 Kw, Diesel, 158HP	Welders	51.6	34	1.5	Diesel Tier 4	158	0.45
SF - Eastern - 19	400A Diesel Welder, Trailer Mounted	Welders	945.3	383	2.5	Diesel	22	0.45
SF - Eastern - 19	Air Compressor 185 cfm	Air Compressor	2679.3	383	7.0	Diesel Tier 4	49	0.48
SF - Eastern - 19	Air Compressor 900 cfm	Air Compressor	945.3	383	2.5	Diesel Tier 4	300	0.48
SF - Eastern - 19	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	43.7	383	0	Diesel or Hybrid	224	0.42
SF - Eastern - 19	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	43.7	383	0	Diesel or Hybrid	137	0.38
SF - Eastern - 19	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	43.7	383	0	Diesel or Hybrid	133	0.38
SF - Eastern - 19	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Construction E	297.7	383	0.8	Diesel	50	0.42
SF - Eastern - 19	Bobcat S630 Skid Steer Loader	Skid Loader	1359.5	383	3.6	Diesel	74	0.37
SF - Eastern - 19	Boom Truck, 12.5 Tn Boom	Crane	2679.3	383	7.0	Diesel or Hybrid	100	0.29
SF - Eastern - 19	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	913.9	383	2.4	Diesel	110	0.36
SF - Eastern - 19	CAT 14 M	Grader	73.4	383	0.2	Diesel	274	0.41
SF - Eastern - 19	CAT 390 MASS EXC	Excavator	3.1	383	0.0	Diesel	534	0.38
SF - Eastern - 19	CAT 825, Roller	Roller	3.1	383	0.0	Diesel	315	0.38
SF - Eastern - 19	CAT 950 H Wheel Loader	Rubber Tired Loaders	1078	383	2.8	Diesel or Hybrid	130	0.36
SF - Eastern - 19	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	234.4	383	0.6	Diesel	158	0.38
SF - Eastern - 19	CAT D3 LGP, Dozer	Crawler Tractor	164.1	383	0.4	Diesel or Hybrid	76	0.43
SF - Eastern - 19	CAT D6LGPDozer w winch	Crawler Tractor	6.2	383	0.0	Diesel or Hybrid	179	0.43
SF - Eastern - 19	CAT LOADER/HOE 416 E	Rubber Tired Loaders	707.7	383	1.8	Diesel	78	0.36
SF - Eastern - 19	Compactor, Plate, 22" w x 35"	Plate Compactors	456.9	383	1.2	Diesel	8.5	0.43
SF - Eastern - 19	Concrete Vibrator, 2"	Other Construction Eq	1890.6	383	4.9	Gasoline	3	0.42
SF - Eastern - 19	Disk, Towed	Off Highway Tractor	3.1	383	0.0	Diesel	140	0.44
SF - Eastern - 19	Grove RT Crane 30T	Crane	2679.3	383	7.0	Diesel	160	0.29
SF - Eastern - 19	Grove RT Crane 55T, 247 hp	Crane	945.3	383	2.5	Diesel	247	0.29
SF - Eastern - 19	Manitowoc 555 150T, 250' Boom	Crane	472.6	383	1.2	Diesel	760	0.29
SF - Eastern - 19	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	2679.4	383	7.0	Diesel	75	0.31
SF - Eastern - 19	Portable, 90 Kw, Diesel, 158HP	Welders	945.3	383	2.5	Diesel Tier 4	158	0.45
SF - Eastern - 19	Water Pump, 4" Diesel	Pumps	14.7	383	0.0	Diesel	10	0.74
SF - Eastern - 20	400A Diesel Welder, Trailer Mounted	Welders	2585.4	826	3.1	Diesel	22	0.45
SF - Eastern - 20	Air Compressor 185 cfm	Air Compressor	6240	826	7.6	Diesel Tier 4	49	0.48
SF - Eastern - 20	Air Compressor 900 cfm	Air Compressor	2585.4	826	3.1	Diesel Tier 4	300	0.48
SF - Eastern - 20	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Construction E	358.4	826	0.4	Diesel	50	0.42
SF - Eastern - 20	Bobcat S630 Skid Steer Loader	Skid Loader	104.5	826	0.1	Diesel	74	0.37

SF - Eastern - 20	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	5070	826	6.1	Diesel	110	0.36
SF - Eastern - 20	Boom Truck, 12.5 Tn Boom	Crane	5070	826	6.1	Diesel or Hybrid	100	0.29
SF - Eastern - 20	Compactor, Plate, 22" w x 35"	Plate Compactors	104.5	826	0.1	Diesel	8.5	0.43
SF - Eastern - 20	Concrete Vibrator, 2"	Other Construction Eq	7756.3	826	9.4	Gasoline	3	0.42
SF - Eastern - 20	Grove RT Crane 80T, 275hp	Crane	5935.8	826	7.2	Diesel	275	0.29
SF - Eastern - 20	Grove RT Crane 55T, 247 hp	Crane	2585.4	826	3.1	Diesel	247	0.29
SF - Eastern - 20	Manitowoc 555 150T, 250' Boom	Crane	7835.4	826	9.5	Diesel	760	0.29
SF - Eastern - 20	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	9031.6	826	10.9	Diesel	75	0.31
SF - Eastern - 20	Portable, 90 Kw, Diesel, 158HP	Welders	2585.4	826	3.1	Diesel Tier 4	158	0.45
SF - Eastern - 21	Air Compressor 185 cfm	Air Compressor	3900	1074	3.6	Diesel Tier 4	49	0.48
SF - Eastern - 22	400A Diesel Welder, Trailer Mounted	Welders	468	269	1.7	Diesel	22	0.45
SF - Eastern - 22	Manitowoc 555 150T, 250' Boom	Crane	468	269	1.7	Diesel	760	0.29
SF - Eastern - 22	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	117	269	0.4	Diesel	75	0.31
SF - Eastern - 23	Air Compressor 185 cfm	Air Compressor	120.5	161	0.7	Diesel Tier 4	49	0.48
SF - Eastern - 23	Air Compressor 375 cfm	Air Compressor	39.6	161	0.2	Diesel Tier 4	122	0.48
SF - Eastern - 23	Boom Truck, 12.5 Tn Boom	Crane	110.2	161	0.7	Diesel or Hybrid	100	0.29
SF - Eastern - 23	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	1209.4	161	7.5	Diesel	110	0.36
SF - Eastern - 23	CAT 14 M	Grader	25208.8	161	156.9	Diesel	274	0.41
SF - Eastern - 23	Cat 613 C Self Loading Scraper	Scraper	80	161	0.5	Diesel	187	0.48
SF - Eastern - 23	CAT 815, Roller	Roller	711.9	161	4.4	Diesel	170	0.38
SF - Eastern - 23	CAT 950 H Wheel Loader	Rubber Tired Loaders	1209.4	161	7.5	Diesel or Hybrid	130	0.36
SF - Eastern - 23	CAT 962 H Wheel Loader	Rubber Tired Loader	168.8	161	1.1	Diesel	230	0.36
SF - Eastern - 23	CAT 988 H Wheel Loader	Rubber Tired Loader	121.1	161	0.8	Diesel	400	0.36
SF - Eastern - 23	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	208.8	161	1.3	Diesel	158	0.38
SF - Eastern - 23	CAT D6LGPDozer w winch	Crawler Tractor	1931	161	12.0	Diesel or Hybrid	179	0.43
SF - Eastern - 23	CAT D8RII, Dozer w winch	Crawler Tractor	121.1	161	0.8	Diesel	310	0.43
SF - Eastern - 23	CAT LOADER/HOE 416 E	Rubber Tired Loaders	6329.1	161	39.4	Diesel	78	0.36
SF - Eastern - 23	Compactor, Plate, 22" w x 35"	Plate Compactors	644.3	161	4.0	Diesel	8.5	0.43
SF - Eastern - 23	Grove RT Crane 30T	Crane	120.5	161	0.7	Diesel	160	0.29
SF - Eastern - 23	Grove RT Crane 80T, 275hp	Crane	120.5	161	0.7	Diesel	275	0.29
SF - Eastern - 23	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	12220.9	161	7.6	Diesel	384	0.38
SF - Eastern - 23	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	120.5	161	0.7	Diesel	75	0.31
SF - Eastern - 23	Water Pump, 4" Diesel	Pumps	73.8	161	0.5	Diesel	10	0.74
SF - Eastern - 24	CAT 14 M	Grader	100	181	0.6	Diesel	274	0.41
SF - Eastern - 24	CAT 950 H Wheel Loader	Rubber Tired Loaders	200	181	1.1	Diesel or Hybrid	130	0.36
SF - Eastern - 24	CAT D3 LGP, Dozer	Crawler Tractor	200	181	1.1	Diesel or Hybrid	76	0.43
SF - Eastern - 24	CAT D6LGPDozer w winch	Crawler Tractor	200	181	1.1	Diesel or Hybrid	179	0.43
SF - Eastern - 24	Water Pump, 3" Gas, Diaphragm	Pumps	1600	181	8.9	Gasoline	10	0.74
SF - Eastern - 25	Boom Truck, 12.5 Tn Boom	Crane	3900	445	8.8	Diesel or Hybrid	100	0.29
SF - Eastern - 25	CAT 12 M	Grader	5190.3	445	11.7	Diesel	173	0.41
SF - Eastern - 25	CAT D3 LGP, Dozer	Crawler Tractor	20761.4	445	46.7	Diesel or Hybrid	76	0.43
SF - Eastern - 25	CAT D6LGPDozer w winch	Crawler Tractor	1642.8	445	3.7	Diesel or Hybrid	179	0.43
SF - Eastern - 25	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	279.7	445	0.6	Diesel	345	0.38
SF - Eastern - 25	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	21844.8	445	49.1	Diesel	384	0.38
SF - Eastern - 25	Water Pump, 4" Diesel	Pumps	21900	445	49.2	Diesel	10	0.74
SF - Eastern - 26	Air Compressor 375 cfm	Air Compressor	13550	1355	10	Diesel Tier 4	122	0.48
SF - Eastern - 26	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	20738.5	1355	15.3	Diesel	110	0.36
SF - Eastern - 26	CAT 14 M	Grader	14302.4	1355	10.6	Diesel	274	0.41
SF - Eastern - 26	CAT 390 MASS EXC	Excavator	10332	1355	7.6	Diesel	534	0.38
SF - Eastern - 26	CAT 631G Scraper, Conventional	Scraper	73091.1	1355	53.9	Diesel	515	0.48
SF - Eastern - 26	CAT 825, Roller	Roller	28604.8	1355	21.1	Diesel	315	0.38
SF - Eastern - 26	CAT D6LGPDozer w winch	Crawler Tractor	29800.4	1355	22.0	Diesel or Hybrid	179	0.43
SF - Eastern - 26	CAT D9R, Dozer w ripper	Crawler Tractor	18272.8	1355	13.5	Diesel	410	0.43
SF - Eastern - 26	Disk, Towed	Off Highway Tractor	19468.4	1355	14.4	Diesel	140	0.44
SF - Eastern - 26	DMM Deep Soil Mixer, 3 Shaft	Bore Drill Rig	13550	1355	10	Diesel	522	0.5
SF - Eastern - 26	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	13550	1355	10	Diesel	500	0.34
SF - Eastern - 26	Grove RT Crane 30T	Crane	13550	1355	10	Diesel	160	0.29
SF - Eastern - 26	Portable, 90 Kw, Diesel, 158HP Water Pump, 4" Diesel	Welders	1355	1355	1	Diesel Tier 4	158	0.45
SF - Eastern - 26		Pumps	4259.1	1355	3.1		10	0.74
SF - Eastern - 27	CAT 14 M	Grader	119.4	1749	0.1	Diesel	274	0.41
SF - Eastern - 27	Cat 613 C Self Loading Scraper	Scraper	19915.5	1749	11.4	Diesel	187	0.48
SF - Eastern - 27	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	119.4	1749	0.1	Diesel	158	0.38
SF - Eastern - 27	CAT D6LGPDozer w winch	Crawler Tractor	32095.7	1749	18.3	Diesel or Hybrid	179	0.43
SF - Eastern - 27	Disk, Towed	Off Highway Tractor	23282.5	1749	13.3	Diesel	140	0.44
SF - Eastern - 27	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	17148.8	1749	9.8	Diesel	345	0.38
SF - Eastern - 28	CAT 12 M	Grader	996.2	2139	0.5	Diesel	173	0.41
SF - Eastern - 28	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	996.2	2139	0.5	Diesel	158	0.38
SF - Eastern - 28	CAT LOADER/HOE 416 E	Rubber Tired Loaders	14836.9	2139	6.9	Diesel	78	0.36
SF - Eastern - 28	Disk, Towed	Off Highway Tractor	6535	2139	3.1	Diesel	140	0.44
SF - Eastern - 28	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	6535	2139	3.1	Diesel	80	0.44
SF - Eastern - 29	Bobcat 5630 Skid Steer Loader	Skid Loader	107.1	274	0.4	Diesel	74	0.37
SF - Eastern - 29	Brush Chipper, 18" Cap., Trailer Mtd. 173hp	Other Construction	67	274	0.2	Diesel	173	0.42
SF - Eastern - 29	CAT 14 M	Grader	3150.1	274	11.5	Diesel	274	0.41
SF - Eastern - 29	CAT 320D, 1.56 cy, 153 hp	Excavator	67	274	0.2	Diesel	138	0.38
SF - Eastern - 29	Cat 613 C Self Loading Scraper	Scraper	555.3	274	2.0	Diesel	187	0.48
SF - Eastern - 29	CAT 825, Roller	Roller	340.7	274	1.2	Diesel	315	0.38
SF - Eastern - 29	CAT 950 H Wheel Loader	Rubber Tired Loaders	53.6	274	0.2	Diesel or Hybrid	130	0.36
SF - Eastern - 29	CAT 962 H Wheel Loader	Rubber Tired Loader	2093.1	274	7.7	Diesel	230	0.36
SF - Eastern - 29	CAT 966 GII Wheel Loader	Rubber Tired Loaders	2867.8	274	10.5	Diesel	286	0.36
SF - Eastern - 29	CAT 980 H Wheel Loader	Rubber Tired Loader	340.7	274	1.2	Diesel	393	0.36
SF - Eastern - 29	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	2093.1	274	7.7	Diesel	158	0.38
SF - Eastern - 29	CAT D3 LGP, Dozer	Crawler Tractor	26.8	274	0.1	Diesel or Hybrid	76	0.43
SF - Eastern - 29	CAT D6LGPDozer w winch	Crawler Tractor	869	274	3.2	Diesel or Hybrid	179	0.43
SF - Eastern - 29	CAT LOADER/HOE 416 E	Rubber Tired Loaders	1868.4	274	6.8	Diesel	78	0.36
SF - Eastern - 29	Disk, Towed	Off Highway Tractor	507.7	274	1.9	Diesel	140	0.44
SF - Eastern - 29	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	334	274	1.2	Diesel	80	0.44
SF - Eastern - 29	Gradall, 1.50 Cy, 282 Hp	Excavator	2867.8	274	10.5	Diesel	282	0.38
SF - Eastern - 29	Hydro Mulcher, 18 HP	Pumps	167	274	0.6	Diesel	25	0.74
SF - Eastern - 29	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	819.6	274	3.0	Diesel	345	0.38
SF - Eastern - 29	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	2921.3	274	10.7	Diesel	384	0.38
SF - Eastern - 29	Light Plant, 4 lite, 1000w, Tower/Mast	Generator	67	274	0.2	Diesel	12	0.74
SF - Eastern - 29	Portable, 20 Kw, Diesel, 36HP	Welders	535.4	274	2.0	Diesel Tier 4	36	0.45
SF - Eastern - 29	Water Pump, 4" Diesel	Pumps	4488.3	274	16.4	Diesel	10	0.74
SF - Eastern - 29	Disk, Towed	Off Highway Tractor	507.7	274	1.9	Diesel	140	0.44

SF - Eastern - 30	400A Diesel Welder, Trailer Mounted	Welders	632.2	186	3.4	Diesel	22	0.45
SF - Eastern - 30	Air Compressor 1600 cfm	Air Compressor	38	186	0.2	Diesel Tier 4	540	0.48
SF - Eastern - 30	Air Compressor 375 cfm	Air Compressor	1200	186	6	Diesel Tier 4	122	0.48
SF - Eastern - 30	Bentonite Mix Plant/Desander	Cement & Mortar Mix	137.5	186	0.7	Diesel Tier 4	100	0.56
SF - Eastern - 30	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	1306.7	186	7.0	Diesel	110	0.36
SF - Eastern - 30	CAT 14 M	Grader	138.6	186	0.7	Diesel	274	0.41
SF - Eastern - 30	CAT 390 MASS EXC	Excavator	137.5	186	0.7	Diesel	534	0.38
SF - Eastern - 30	CAT 631G Scraper, Conventional	Scraper	808.3	186	4.4	Diesel	515	0.48
SF - Eastern - 30	CAT 815, Roller	Roller	618	186	3.3	Diesel	170	0.38
SF - Eastern - 30	CAT 950 H Wheel Loader	Rubber Tired Loaders	171.9	186	0.9	Diesel or Hybrid	130	0.36
SF - Eastern - 30	CAT 962 H Wheel Loader	Rubber Tired Loader	137.5	186	0.7	Diesel	230	0.36
SF - Eastern - 30	CAT 966 Gil Wheel Loader	Rubber Tired Loaders	137.6	186	0.7	Diesel	286	0.36
SF - Eastern - 30	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	171.9	186	0.9	Diesel	158	0.38
SF - Eastern - 30	CAT D3 LGP, Dozer	Crawler Tractor	171.9	186	0.9	Diesel or Hybrid	76	0.43
SF - Eastern - 30	CAT D6LGPDozer w winch	Crawler Tractor	977.7	186	5.3	Diesel or Hybrid	179	0.43
SF - Eastern - 30	CAT D9R, Dozer w ripper	Crawler Tractor	269.4	186	1.5	Diesel	410	0.43
SF - Eastern - 30	Concrete Vibrator, 2"	Other Construction Eq	290.3	186	1.6	Gasoline	3	0.42
SF - Eastern - 30	DMM Deep Soil Mixer, 3 Shaft,	Bore Drill Rig	186	186	1	Diesel	522	0.5
SF - Eastern - 30	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	186	186	1	Diesel	500	0.34
SF - Eastern - 30	Gradall, 1.50 Cy, 282 Hp	Excavator	186	186	1	Diesel	282	0.38
SF - Eastern - 30	Grove RT Crane 30T	Crane	1169.2	186	6.3	Diesel	160	0.29
SF - Eastern - 30	Grove RT Crane 55T, 247 hp	Crane	642.5	186	3.5	Diesel	247	0.29
SF - Eastern - 30	Grove RT Crane 80T, 275hp	Crane	137.5	186	0.7	Diesel	275	0.29
SF - Eastern - 30	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	3.9	186	0.0	Diesel	345	0.38
SF - Eastern - 30	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	597.3	186	3.2	Diesel	384	0.38
SF - Eastern - 30	Manitowoc 555 150T, 250' Boom	Crane	550	186	3.0	Diesel	760	0.29
SF - Eastern - 30	Manitowoc 999-275 Ton Crane	Crane	38	186	0.2	Diesel	900	0.29
SF - Eastern - 30	Portable, 20 Kw, Diesel, 36HP	Welders	550	186	3.0	Diesel Tier 4	36	0.45
SF - Eastern - 30	Portable, 90 Kw, Diesel, 158HP Vibro	Welders	80	186	<1	Diesel Tier 4	158	0.45
SF - Eastern - 30	Driver/Extractor V20B	Other Construction Eq	390	186	2.1	Diesel	325	0.42
SF - Eastern - 30	Water Pump, 4" Diesel	Pumps	32.3	186	0.2	Diesel	10	0.74
SF - Eastern - 30	Water Pump, 6" Diesel	Pumps	137.5	186	0.7	Diesel	13	0.74
SF - Eastern - 31	400A Diesel Welder, Trailer Mounted	Welders	1402.1	558	2.5	Diesel	22	0.45
SF - Eastern - 31	Air Compressor 1600 cfm	Air Compressor	683.4	558	1.2	Diesel Tier 4	540	0.48
SF - Eastern - 31	Air Compressor 185 cfm	Air Compressor	350	558	0.6	Diesel Tier 4	49	0.48
SF - Eastern - 31	Air Compressor 375 cfm	Air Compressor	2790	558	5	Diesel Tier 4	122	0.48
SF - Eastern - 31	Bentonite Mix Plant/Desander	Cement & Mortar Mix	3481.1	558	6.2	Diesel Tier 4	100	0.56
SF - Eastern - 31	Boom Truck, 12.5 Tn Boom	Crane	175	558	0.3	Diesel or Hybrid	100	0.29
SF - Eastern - 31	Manitowoc 555 150T, 250' Boom	Crane	324	558	0.6	Diesel	760	0.29
SF - Eastern - 31	Manitowoc 999-275 Ton Crane	Crane	603.4	558	1.1	Diesel	900	0.29
SF - Eastern - 31	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	7727.3	558	13.9	Diesel	110	0.36
SF - Eastern - 31	CAT 14 M	Grader	215.4	558	0.4	Diesel	274	0.41
SF - Eastern - 31	CAT 390 MASS EXC	Excavator	4091.1	558	7.3	Diesel	534	0.38
SF - Eastern - 31	CAT 950 H Wheel Loader	Rubber Tired Loaders	33.3	558	0.1	Diesel or Hybrid	130	0.36
SF - Eastern - 31	CAT 962 H Wheel Loader	Rubber Tired Loader	3481.1	558	6.2	Diesel	230	0.36
SF - Eastern - 31	CAT 973 Track Loader, 4.2 cy, 263hp	Skid Loader	244	558	0.4	Diesel or Hybrid	210	0.37
SF - Eastern - 31	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	35.3	558	0.1	Diesel	158	0.38
SF - Eastern - 31	CAT D6LGPDozer w winch	Crawler Tractor	3481.1	558	6.2	Diesel or Hybrid	179	0.43
SF - Eastern - 31	CAT D3 LGP, Dozer	Crawler Tractor	33.3	558	0.1	Diesel or Hybrid	76	0.43
SF - Eastern - 31	CAT D8Ril, Dozer w winch	Crawler Tractor	410.8	558	0.7	Diesel	310	0.43
SF - Eastern - 31	Concrete Vibrator, 2"	Other Construction Eq	4622.9	558	8.3	Gasoline	3	0.42
SF - Eastern - 31	DMM Deep Soil Mixer, 3 Shaft	Bore Drill Rig	2790	558	5	Diesel	522	0.5
SF - Eastern - 31	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	2790	558	5	Diesel	500	0.34
SF - Eastern - 31	Grove RT Crane 30T	Crane	2790	558	5	Diesel	160	0.29
SF - Eastern - 31	Grove RT Crane 55T, 247 hp	Crane	472.5	558	0.8	Diesel	247	0.29
SF - Eastern - 31	Grove RT Crane 80T, 275hp	Crane	3811.3	558	6.8	Diesel	275	0.29
SF - Eastern - 31	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	175	558	0.3	Diesel	75	0.31
SF - Eastern - 31	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	815.4	558	1.5	Diesel	384	0.38
SF - Eastern - 31	Portable, 90 Kw, Diesel, 158HP	Welders	550	558	1	Diesel Tier 4	158	0.45
SF - Eastern - 31	Water Pump, 6" Diesel	Pumps	3481.1	558	6.2	Diesel	13	0.74
SF - Eastern - 31	Water Pump, 4" Diesel	Pumps	62.3	558	0.1	Diesel	10	0.74
SF - Eastern - 31	Well Drill	Bore/Drill Rigs	200	558	0.4	Diesel	136	0.5
SF - Eastern - 32	400A Diesel Welder, Trailer Mounted	Welders	948.9	135	7.0	Diesel	22	0.45
SF - Eastern - 32	Air Compressor 185 cfm	Air Compressor	500	135	3.7	Diesel Tier 4	49	0.48
SF - Eastern - 32	Air Compressor 375 cfm	Air Compressor	60	135	0.4	Diesel Tier 4	122	0.48
SF - Eastern - 32	Boom Truck, 12.5 Tn Boom	Crane	616.1	135	4.6	Diesel or Hybrid	100	0.29
SF - Eastern - 32	CAT IT28H, 10640 LB Tool Carrier	Rubber Tired Loaders	222.2	135	1.6	Diesel	145	0.36
SF - Eastern - 32	Grove RT Crane 30T	Crane	500	135	3.7	Diesel	160	0.29
SF - Eastern - 32	Grove RT Crane 15T, 100hp	Crane	116.1	135	0.9	Diesel	100	0.29
SF - Eastern - 32	Grove RT Crane 80T, 275hp	Crane	1018	135	7.5	Diesel	275	0.29
SF - Eastern - 32	Manitowoc 555 150T, 250' Boom	Crane	237.2	135	1.8	Diesel	760	0.29
SF - Eastern - 32	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	500	135	3.7	Diesel	75	0.31
SF - Eastern - 33	Air Compressor 375 cfm	Air Compressor	5680	256	22.2	Diesel Tier 4	122	0.48
SF - Eastern - 33	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	5680	256	22.2	Diesel	110	0.36
SF - Eastern - 33	CAT 825, Roller	Roller	324	256	1.3	Diesel	315	0.38
SF - Eastern - 33	CAT 980 H Wheel Loader	Rubber Tired Loader	324	256	1.3	Diesel	393	0.36
SF - Eastern - 33	CAT CB-634D Vibratory 84"	Rollers	324	256	1.3	Diesel	145	0.38
SF - Eastern - 33	CAT D8 Dozer	Crawler Tractor	324	256	1.3	Diesel	328	0.43
SF - Eastern - 33	CAT Forklift 5,500 LB	Aerial Lift	800	256	3.1	Diesel	63	0.31
SF - Eastern - 33	CAT Grader 16H	Graders	324	256	1.3	Diesel	285	0.41
SF - Eastern - 33	DMM Deep Soil Mixer, 3 Shaft	Bore Drill Rig	2560	256	10	Diesel	522	0.5
SF - Eastern - 33	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	5680	256	22.2	Diesel	500	0.34
SF - Eastern - 33	Grove RT Crane 30T	Crane	5680	256	22.2	Diesel	160	0.29
SF - Eastern - 33	Hydraulic 40 Ton Crane	Crane	800	256	3.1	Diesel	300	0.29
SF - Eastern - 33	Hydraulic 9 Ton Crane	Crane	2201	256	8.6	Diesel	85	0.29
SF - Eastern - 33	Portable, 90 Kw, Diesel, 158HP	Welders	500	256	2	Diesel Tier 4	158	0.45
SF - Eastern - 34	Air Compressor 1600 cfm	Air Compressor	666.8	366	1.8	Diesel Tier 4	540	0.48
SF - Eastern - 34	250 CFM Compressor Diesel	Air Compressor	152.3	366	0.4	Diesel Tier 3	75	0.74
SF - Eastern - 34	CAT 950 H Wheel Loader	Rubber Tired Loaders	1073.3	366	2.9	Diesel or Hybrid	130	0.36
SF - Eastern - 34	CAT CB-634D Vibratory 84"	Rollers	3090	366	8.4	Diesel	145	0.38
SF - Eastern - 34	CAT D8 Dozer	Crawler Tractor	3090	366	8.4	Diesel	328	0.43
SF - Eastern - 34	CAT Forklift 5,500 LB	Aerial Lift	16.7	366	0.0	Diesel	63	0.31
SF - Eastern - 34	CAT Grader 16H	Graders	3090	366	8.4	Diesel	285	0.41
SF - Eastern - 34	CAT Hyd Excavator 1CY	Excavator	828.7	366	2.3	Diesel	138	0.48
SF - Eastern - 34	Hydraulic 40 Ton Crane	Crane	317.8	366	0.9	Diesel	300	0.29
SF - Eastern - 34	Hydraulic 9 Ton Crane	Crane	16.7	366	0.0	Diesel	85	0.29
SF - Eastern - 34	Hydraulic 55 Ton Crane	Crane	1333.6	366	3.6	Diesel	350	0.29
SF - Eastern - 34	Manitowoc 777 200 Ton Crane	Crane	2505.9	366	6.9	Diesel	760	0.29
SF - Eastern - 34	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	666.8	366	2	Diesel	8	0.56

SF - Eastern - 34	Slurry Wall Techniwell	Pumps	666.8	366	2	Diesel	500	0.74
SF - Eastern - 35	150 KW Diesel Generator	Generator	104.3	88	1.2	Diesel Tier 4	183	0.74
SF - Eastern - 35	Air Compressor 1600 cfm	Air Compressor	133.3	88	1.5	Diesel Tier 4	540	0.48
SF - Eastern - 35	250 CFM Compressor Diesel	Air Compressor	1613.9	88	18.4	Diesel Tier 3	75	0.74
SF - Eastern - 35	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	295	88	3.4	Diesel Tier 4	210	0.38
SF - Eastern - 35	Water Pump, 6" Diesel	Pumps	417.4	88	4.8	Diesel	13	0.74
SF - Eastern - 35	Hydraulic 40 Ton Crane	Crane	654.3	88	7.4	Diesel	300	0.29
SF - Eastern - 35	Manitowoc 777 200 Ton Crane	Crane	963	88	11.0	Diesel	760	0.29
SF - Eastern - 35	Manitowoc 999-275 Ton Crane	Crane	410.7	88	4.7	Diesel	900	0.29
SF - Eastern - 35	Telescope RT Forklift 5500	Forklift	133.3	88	1.5	Diesel	63	0.2
SF - Eastern - 35	Truck Crane Lattice Boom 90T	Crane	133.3	88	1.5	Diesel Tier 4	300	0.29
SF - Eastern - 36	250 CFM Compressor Diesel	Air Compressor	4253.2	361	11.8	Diesel Tier 3	75	0.74
SF - Eastern - 36	CAT 988 H Wheel Loader	Rubber Tired Loader	1916.7	361	5.3	Diesel	400	0.36
SF - Eastern - 36	CAT D8 Dozer	Crawler Tractor	1916.7	361	5.3	Diesel	328	0.43
SF - Eastern - 36	CAT Forklift 5,500 LB	Aerial Lift	2158.3	361	6.0	Diesel	63	0.31
SF - Eastern - 36	Hydraulic 40 Ton Crane	Crane	2491.7	361	6.9	Diesel	300	0.29
SF - Eastern - 36	Hydraulic 9 Ton Crane	Crane	2158.3	361	6.0	Diesel	85	0.29
SF - Eastern - 37	Air Compressor 1600 cfm	Air Compressor	83.3	29	2.8	Diesel Tier 4	540	0.48
SF - Eastern - 37	Hydraulic 40 Ton Crane	Crane	83.3	29	2.8	Diesel	300	0.29
SF - Eastern - 37	Hydraulic 55 Ton Crane	Crane	595.8	29	20.3	Diesel	350	0.29
SF - Eastern - 37	Manitowoc 777 200 Ton Crane	Crane	595.8	29	20.3	Diesel	760	0.29
SF - Eastern - 37	Telescope RT Forklift 5500	Forklift	353.3	29	12.1	Diesel	63	0.2
SF - Eastern - 37	Truck Crane Lattice Boom 90T	Crane	83.3	29	2.8	Diesel Tier 4	300	0.29
SF - Eastern - 38	150 KW Diesel Generator	Generator	104.3	989	0.1	Diesel Tier 4	183	0.74
SF - Eastern - 38	Air Compressor 1600 cfm	Air Compressor	666.8	989	0.7	Diesel Tier 4	540	0.48
SF - Eastern - 38	250 CFM Compressor Diesel	Air Compressor	7324.8	989	7.4	Diesel Tier 3	75	0.74
SF - Eastern - 38	Air Compressor 375 cfm	Air Compressor	2133	989	2.2	Diesel Tier 4	122	0.48
SF - Eastern - 38	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	2133	989	2.2	Diesel	110	0.36
SF - Eastern - 38	CAT 950 H Wheel Loader	Rubber Tired Loaders	1073.3	989	1.1	Diesel or Hybrid	130	0.36
SF - Eastern - 38	CAT CB-634D Vibratory 84"	Rollers	3090	989	3.1	Diesel	145	0.38
SF - Eastern - 38	CAT D8 Dozer	Crawler Tractor	3090	989	3.1	Diesel	328	0.43
SF - Eastern - 38	CAT Forklift 5,500 LB	Aerial Lift	16.7	989	0.0	Diesel	63	0.31
SF - Eastern - 38	CAT Grader 16H	Graders	3090	989	3.1	Diesel	285	0.41
SF - Eastern - 38	CAT Hyd Excavator 1CY	Excavator	423.2	989	0.4	Diesel	138	0.38
SF - Eastern - 38	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	1333.6	989	1.3	Diesel Tier 4	210	0.38
SF - Eastern - 38	Water Pump, 6" Diesel	Pumps	417.4	989	0.4	Diesel	13	0.74
SF - Eastern - 38	DMM Deep Soil Mixer, 3 Shaft	Bore Drill Rig	2133	989	2.2	Diesel	522	0.5
SF - Eastern - 38	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	2133	989	2.2	Diesel	500	0.34
SF - Eastern - 38	Grove RT Crane 30T	Crane	2133	989	2.2	Diesel	160	0.29
SF - Eastern - 38	Hydraulic 40 Ton Crane	Crane	317.8	989	0.3	Diesel	300	0.29
SF - Eastern - 38	Hydraulic 9 Ton Crane	Crane	121	989	0.1	Diesel	85	0.29
SF - Eastern - 38	Hydraulic 55 Ton Crane	Crane	1333.6	989	1.3	Diesel	350	0.29
SF - Eastern - 38	CAT Hyd Excavator 1CY	Excavator	396.5	989	0.4	Diesel	138	0.38
SF - Eastern - 38	Manitowoc 777 200 Ton Crane	Crane	1839.2	989	1.9	Diesel	760	0.29
SF - Eastern - 38	Manitowoc 200 Ton Crane	Crane	666.8	989	0.7	Diesel	760	0.29
SF - Eastern - 38	Portable, 90 Kw, Diesel, 158HP	Welders	400	989	<1	Diesel Tier 4	158	0.45
SF - Eastern - 38	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	666.8	989	1	Diesel	8	0.56
SF - Eastern - 38	Slurry Wall Techniwell	Pumps	666.8	989	1	Diesel	500	0.74
SF - Eastern - 39	Air Compressor 1600 cfm	Air Compressor	133.3	290	0.5	Diesel Tier 4	540	0.48
SF - Eastern - 39	250 CFM Compressor Diesel	Air Compressor	1613.9	290	5.6	Diesel Tier 3	75	0.74
SF - Eastern - 39	Telescope RT Forklift 5500	Forklift	133.3	290	0.5	Diesel	63	0.2
SF - Eastern - 39	Truck Crane Lattice Boom 90T	Crane	133.3	290	0.5	Diesel Tier 4	300	0.29
SF - Eastern - 39	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	0	290	0.0	Diesel Tier 4	210	0.38
SF - Eastern - 39	Hydraulic 40 Ton Crane	Crane	550	290	1.9	Diesel	300	0.29
SF - Eastern - 39	Manitowoc 777 200 Ton Crane	Crane	963	290	3.3	Diesel	760	0.29
SF - Eastern - 39	Manitowoc 999-275 Ton Crane	Crane	410.7	290	1.4	Diesel	900	0.29
SF - Eastern - 40	250 CFM Compressor Diesel	Air Compressor	4262.8	391	10.9	Diesel Tier 3	75	0.74
SF - Eastern - 40	CAT 988 H Wheel Loader	Rubber Tired Loader	1920.8	391	4.9	Diesel	400	0.36
SF - Eastern - 40	CAT D8 Dozer	Crawler Tractor	1920.8	391	4.9	Diesel	328	0.43
SF - Eastern - 40	CAT Forklift 5,500 LB	Aerial Lift	2086.7	391	5.3	Diesel	63	0.31
SF - Eastern - 40	Hydraulic 40 Ton Crane	Crane	2420	391	6.2	Diesel	300	0.29
SF - Eastern - 40	Hydraulic 9 Ton Crane	Crane	2086.7	391	5.3	Diesel	85	0.29
SF - Eastern - 41	Air Compressor 1600 cfm	Air Compressor	83.3	35	2.4	Diesel Tier 4	540	0.48
SF - Eastern - 41	Hydraulic 40 Ton Crane	Crane	83.3	35	2.4	Diesel	300	0.29
SF - Eastern - 41	Hydraulic 55 Ton Crane	Crane	595.8	35	17.0	Diesel	350	0.29
SF - Eastern - 41	Manitowoc 777 200 Ton Crane	Crane	595.8	35	17.0	Diesel	760	0.29
SF - Eastern - 41	Telescope RT Forklift 5500	Forklift	353.3	35	10.1	Diesel	63	0.2
SF - Eastern - 41	Truck Crane Lattice Boom 90T	Crane	83.3	35	2.4	Diesel Tier 4	300	0.29
SF - Eastern - 42	Air Compressor 375 cfm	Air Compressor	3851	2599	1.5	Diesel Tier 4	122	0.48
SF - Eastern - 42	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	3851	2599	1.5	Diesel	110	0.36
SF - Eastern - 42	CAT 825, Roller	Roller	219.3	2599	0.1	Diesel	315	0.38
SF - Eastern - 42	CAT 980 H Wheel Loader	Rubber Tired Loader	219.3	2599	0.1	Diesel	393	0.36
SF - Eastern - 42	CAT CB-634D Vibratory 84"	Rollers	4402	2599	1.7	Diesel	145	0.38
SF - Eastern - 42	CAT D8 Dozer	Crawler Tractor	4402	2599	1.7	Diesel	328	0.43
SF - Eastern - 42	CAT Forklift 5,500 LB	Aerial Lift	434.3	2599	0.2	Diesel	63	0.31
SF - Eastern - 42	CAT Grader 16H	Graders	4402	2599	1.7	Diesel	285	0.41
SF - Eastern - 42	DMM Deep Soil Mixer, 3 Shaft,	Bore Drill Rig	3851	2599	1.5	Diesel	522	0.5
SF - Eastern - 42	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	3851	2599	1.5	Diesel	500	0.34
SF - Eastern - 42	Grove RT Crane 30T	Crane	3851	2599	1.5	Diesel	160	0.29
SF - Eastern - 42	Hydraulic 40 Ton Crane	Crane	434.3	2599	0.2	Diesel	300	0.29
SF - Eastern - 42	Hydraulic 9 Ton Crane	Crane	502.7	2599	0.2	Diesel	85	0.29
SF - Eastern - 42	Portable, 90 Kw, Diesel, 158HP	Welders	1400	2599	<1	Diesel Tier 4	158	0.45
SF - Eastern - 43	150 KW Diesel Generator	Generator	108.6	239	0.5	Diesel Tier 4	183	0.74
SF - Eastern - 43	Air Compressor 1600 cfm	Air Compressor	693.8	239	2.9	Diesel Tier 4	540	0.48
SF - Eastern - 43	250 CFM Compressor Diesel	Air Compressor	158.5	239	0.7	Diesel Tier 3	75	0.74
SF - Eastern - 43	CAT 825, Roller	Roller	132.5	239	0.6	Diesel	315	0.38
SF - Eastern - 43	CAT 950 H Wheel Loader	Rubber Tired Loaders	1116.8	239	4.7	Diesel or Hybrid	130	0.36
SF - Eastern - 43	CAT 980 H Wheel Loader	Rubber Tired Loader	132.5	239	0.6	Diesel	393	0.36
SF - Eastern - 43	CAT CB-634D Vibratory 84"	Rollers	132.5	239	0.6	Diesel	145	0.38
SF - Eastern - 43	CAT D8 Dozer	Crawler Tractor	132.5	239	0.6	Diesel	328	0.43
SF - Eastern - 43	CAT Forklift 5,500 LB	Aerial Lift	17.4	239	0.1	Diesel	63	0.31
SF - Eastern - 43	CAT Grader 16H	Graders	132.5	239	0.6	Diesel	285	0.41
SF - Eastern - 43	CAT Hyd Excavator 1CY	Excavator	440.4	239	1.8	Diesel	138	0.38
SF - Eastern - 43	Water Pump, 6" Diesel	Pumps	434.3	239	1.8	Diesel	13	0.74
SF - Eastern - 43	Hydraulic 40 Ton Crane	Crane	330.7	239	1.4	Diesel	300	0.29

SF - Eastern - 43	Hydraulic 9 Ton Crane	Crane	710.1	239	3.0	Diesel	85	0.29
SF - Eastern - 43	Hydraulic 55 Ton Crane	Crane	693.8	239	2.9	Diesel	350	0.29
SF - Eastern - 43	CAT Hyd Excavator 1CY	Excavator	312.6	239	1.3	Diesel	138	0.38
SF - Eastern - 43	Manitowoc 200 Ton Crane	Crane	610.2	239	2.6	Diesel	760	0.29
SF - Eastern - 43	Manitowoc 777 200 Ton Crane	Crane	1675.3	239	7.0	Diesel	760	0.29
SF - Eastern - 43	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	693.8	239	3	Diesel	8	0.56
SF - Eastern - 43	Slurry Wall Techniwell	Pumps	693.8	239	3	Diesel	500	0.74
SF - Eastern - 44	250 CFM Compressor Diesel	Air Compressor	1048.6	91	11.5	Diesel Tier 3	75	0.74
SF - Eastern - 44	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	0	91	0.0	Diesel Tier 4	210	0.38
SF - Eastern - 44	Manitowoc 777 200 Ton Crane	Crane	900	91	9.8	Diesel	760	0.29
SF - Eastern - 44	Manitowoc 999-275 Ton Crane	Crane	332.3	91	3.6	Diesel	900	0.29
SF - Eastern - 45	CAT 631G Scraper, Conventional	Scraper	0	165	0.0	Diesel	515	0.48
SF - Eastern - 45	CAT 980 H Wheel Loader	Rubber Tired Loader	1449	165	8.8	Diesel	393	0.36
SF - Eastern - 45	CAT CB-634D Vibratory 84"	Rollers	3293	165	20.0	Diesel	145	0.38
SF - Eastern - 45	CAT D8 Dozer	Crawler Tractor	4742	165	28.7	Diesel	328	0.43
SF - Eastern - 45	CAT Grader 16H	Graders	4742	165	28.7	Diesel	285	0.41
SF - Eastern - 46	150 KW Diesel Generator	Generator	0	443	0	Diesel Tier 4	183	0.74
SF - Eastern - 46	Air Compressor 1600 cfm	Air Compressor	693.8	443	1.6	Diesel Tier 4	540	0.48
SF - Eastern - 46	250 CFM Compressor Diesel	Air Compressor	158.5	443	0.4	Diesel Tier 3	75	0.74
SF - Eastern - 46	CAT 950 H Wheel Loader	Rubber Tired Loaders	1116.8	443	2.5	Diesel or Hybrid	130	0.36
SF - Eastern - 46	CAT CB-634D Vibratory 84"	Rollers	3816.6	443	8.6	Diesel	145	0.38
SF - Eastern - 46	CAT D8 Dozer	Crawler Tractor	3816.6	443	8.6	Diesel	328	0.43
SF - Eastern - 46	CAT Forklift 5,500 LB	Aerial Lift	104.2	443	0.2	Diesel	63	0.31
SF - Eastern - 46	CAT Grader 16H	Graders	3816.6	443	8.6	Diesel	285	0.41
SF - Eastern - 46	CAT Hyd Excavator 1CY	Excavator	440.4	443	1.0	Diesel	138	0.38
SF - Eastern - 46	Water Pump, 6" Diesel	Pumps	434.3	443	1.0	Diesel	13	0.74
SF - Eastern - 46	Hydraulic 40 Ton Crane	Crane	417.5	443	0.9	Diesel	300	0.29
SF - Eastern - 46	Hydraulic 9 Ton Crane	Crane	212.8	443	0.5	Diesel	85	0.29
SF - Eastern - 46	Hydraulic 55 Ton Crane	Crane	1303.9	443	2.9	Diesel	350	0.29
SF - Eastern - 46	CAT Hyd Excavator 1CY	Excavator	412.6	443	0.9	Diesel	138	0.38
SF - Eastern - 46	Manitowoc 777 200 Ton Crane	Crane	610.2	443	1.4	Diesel	760	0.29
SF - Eastern - 46	Manitowoc 200 Ton Crane	Crane	1675.3	443	3.8	Diesel	760	0.29
SF - Eastern - 46	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	693.8	443	2	Diesel	8	0.56
SF - Eastern - 46	Slurry Wall Techniwell	Pumps	693.8	443	2	Diesel	500	0.74
SF - Eastern - 47	Air Compressor 1600 cfm	Air Compressor	173.7	59	2.9	Diesel Tier 4	540	0.48
SF - Eastern - 47	250 CFM Compressor Diesel	Air Compressor	1048.9	59	17.7	Diesel Tier 3	75	0.74
SF - Eastern - 47	Hydraulic 40 Ton Crane	Crane	173.7	59	2.9	Diesel	300	0.29
SF - Eastern - 47	Manitowoc 777 200 Ton Crane	Crane	900	59	15.2	Diesel	760	0.29
SF - Eastern - 47	Manitowoc 999-275 Ton Crane	Crane	166.2	59	2.8	Diesel	900	0.29
SF - Eastern - 47	Telescope RT Forklift 5500	Forklift	173.7	59	2.9	Diesel	63	0.2
SF - Eastern - 47	Truck Crane Lattice Boom 90T	Crane	173.7	59	2.9	Diesel Tier 4	300	0.29
SF - Eastern - 48	250 CFM Compressor Diesel	Air Compressor	39432.8	2393	16.5	Diesel Tier 3	75	0.74
SF - Eastern - 48	CAT 988 H Wheel Loader	Rubber Tired Loader	18839.3	2393	7.9	Diesel	400	0.36
SF - Eastern - 48	CAT D8 Dozer	Crawler Tractor	18839.3	2393	7.9	Diesel	328	0.43
SF - Eastern - 48	CAT Forklift 5,500 LB	Aerial Lift	17868.7	2393	7.5	Diesel	63	0.31
SF - Eastern - 48	Hydraulic 40 Ton Crane	Crane	18845.8	2393	7.9	Diesel	300	0.29
SF - Eastern - 48	Hydraulic 9 Ton Crane	Crane	17868.7	2393	7.5	Diesel	85	0.29
SF - Eastern - 48	Manitowoc 777 200 Ton Crane	Crane	434.3	2393	0.2	Diesel	760	0.29
SF - Eastern - 49	Air Compressor 1600 cfm	Air Compressor	108.6	70	1.6	Diesel Tier 4	540	0.48
SF - Eastern - 49	CAT Forklift 5,500 LB	Aerial Lift	0	70	0.0	Diesel	63	0.31
SF - Eastern - 49	Hydraulic 9 Ton Crane	Crane	0	70	0.0	Diesel	85	0.29
SF - Eastern - 49	Hydraulic 40 Ton Crane	Crane	108.6	70	1.6	Diesel	300	0.29
SF - Eastern - 49	Hydraulic 55 Ton Crane	Crane	1210.6	70	17.3	Diesel	350	0.29
SF - Eastern - 49	Manitowoc 777 200 Ton Crane	Crane	924.4	70	13.2	Diesel	760	0.29
SF - Eastern - 49	Telescope RT Forklift 5500	Forklift	1140	70	16.3	Diesel	63	0.2
SF - Eastern - 49	Truck Crane Lattice Boom 90T	Crane	108.6	70	1.6	Diesel Tier 4	300	0.29
SF - Eastern - 50	400A Diesel Welder, Trailer Mounted	Welders	468	40	11.7	Diesel	22	0.45
SF - Eastern - 50	Air Compressor 1600 cfm	Air Compressor	234	40	5.9	Diesel Tier 4	540	0.48
SF - Eastern - 50	Boom Truck, 12.5 Tn Boom	Crane	234	40	5.9	Diesel or Hybrid	100	0.29
SF - Eastern - 50	Grove RT Crane 80T, 275hp	Crane	468	40	11.7	Diesel	275	0.29
SF - Eastern - 50	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	234	40	5.9	Diesel	75	0.31
SF - Eastern - 51	Air Compressor 1600 cfm	Air Compressor	400	39	10.2	Diesel Tier 4	540	0.48
SF - Eastern - 51	Boom Truck, 12.5 Tn Boom	Crane	200	39	5.1	Diesel or Hybrid	100	0.29
SF - Eastern - 51	Grove RT Crane 80T, 275hp	Crane	400	39	10.2	Diesel	275	0.29
SF - Eastern - 51	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	200	39	5.1	Diesel	75	0.31
SF - Eastern - 52	400A Diesel Welder, Trailer Mounted	Welders	3938.9	2602	1.5	Diesel	22	0.45
SF - Eastern - 52	Bobcat 5630 Skid Steer Loader	Skid Loader	19694.6	2602	7.6	Diesel	74	0.37
SF - Eastern - 52	CAT 962 H Wheel Loader	Rubber Tired Loader	39879	2602	15.3	Diesel	230	0.36
SF - Eastern - 52	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	10100.2	2602	3.9	Diesel Tier 4	210	0.38
SF - Eastern - 52	Portable, 300 Kw, Diesel, 36HP	Welders	39389.3	2602	15.1	Diesel Tier 4	400	0.45
SF - Eastern - 53	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	101	11	9	Diesel or Hybrid	224	0.42
SF - Eastern - 53	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	101	11	9	Diesel or Hybrid	137	0.38
SF - Eastern - 53	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	101	11	9	Diesel or Hybrid	133	0.38
SF - Eastern - 53	CAT LOADER/HOE 416 E	Rubber Tired Loaders	101	11	9.4	Diesel	78	0.36
SF - Eastern - 54	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	101	10	10	Diesel or Hybrid	224	0.42
SF - Eastern - 54	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	101	10	10	Diesel or Hybrid	137	0.38
SF - Eastern - 54	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	101	10	10	Diesel or Hybrid	133	0.38
SF - Eastern - 54	CAT LOADER/HOE 416 E	Rubber Tired Loaders	101	10	10.1	Diesel	78	0.36
SF - Eastern - 55	CAT 12 M	Grader	210	211	1.0	Diesel	173	0.41
SF - Eastern - 55	CAT 390 MASS EXC	Excavator	200	211	0.9	Diesel	534	0.38
SF - Eastern - 55	CAT D8Ril, Dozer w winch	Crawler Tractor	2000	211	9.5	Diesel	310	0.43
SF - Eastern - 55	CAT 631G Scraper, Conventional	Scraper	2000	211	9.5	Diesel	515	0.48
SF - Eastern - 55	Disk, Towed	Off Highway Tractor	320	211	1.5	Diesel	140	0.44
SF - Eastern - 55	CAT 966 Gil Wheel Loader	Rubber Tired Loaders	40	211	0.2	Diesel	286	0.36
SF - Eastern - 55	CAT D9R, Dozer w ripper	Crawler Tractor	1180	211	5.6	Diesel	410	0.43
SF - Eastern - 55	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	1240	211	5.9	Diesel	80	0.44
SF - Eastern - 55	Hydro Mulcher, 18 HP	Pumps	120	211	0.6	Diesel	25	0.74
SF - Eastern - 55	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	1000	211	4.7	Diesel	345	0.38

**Offroad Equipment (Electric) Inventory for Southern Complex on Byron Tract - Eastern
Option 10**

Electricity for TBM Operations included in the Summary Workbook

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
SF - Eastern - 1	400A, Electric Welder	8.9	207	15	0.644
SF - Eastern - 2	400A, Electric Welder	44.4	323	15	2.063
SF - Eastern - 6	400A, Electric Welder	925.4	759.3	15	18.281
SF - Eastern - 6	Water Pump, 4" Electrical, Submersible	18509.4	15187.2	1	1.219
SF - Eastern - 7	400A, Electric Welder	3385.2	264	15	192.133
SF - Eastern - 9	400A, Electric Welder	1170	245	15	71.633
SF - Eastern - 9	Water Pump, 4" Electrical, Submersible	702	245	1	2.865
SF - Eastern - 10	Water Pump, 4" Electrical, Submersible	57	91	1	0.628
SF - Eastern - 11	400A, Electric Welder	1084.7	311	15	52.365
SF - Eastern - 12	400A, Electric Welder	20859	799	15	391.806
SF - Eastern - 12	Water Pump, 4" Electrical, Submersible	9547.6	799	1	11.956
SF - Eastern - 13	400A, Electric Welder	5519.4	964	15	85.921
SF - Eastern - 13	Water Pump, 4" Electrical, Submersible	4713.4	964	1	4.892
SF - Eastern - 14	Water Pump, 4" Electrical, Submersible	7384.1	706	1	10.463
SF - Eastern - 15B	400A, Electric Welder	93.6	400	15	3.510
SF - Eastern - 15B	Water Pump, 4" Electrical, Submersible	4199.5	400	1	10.499
SF - Eastern - 16	400A, Electric Welder	1341.6	179	15	112.694
SF - Eastern - 16	Water Pump, 4" Electrical, Submersible	704.6	179	1	3.946
SF - Eastern - 17	400A, Electric Welder	1501.5	37	15	606.375
SF - Eastern - 17	Water Pump, 4" Electrical, Submersible	189.4	37	1	5.099
SF - Eastern - 18	400A, Electric Welder	0.2	34	15	0.089
SF - Eastern - 18	Water Pump, 4" Electrical, Submersible	103.3	34	1	3.077
SF - Eastern - 19	400A, Electric Welder	2679.3	383	15	104.973
SF - Eastern - 19	Water Pump, 4" Electrical, Submersible	1890.6	383	1	4.938
SF - Eastern - 20	400A, Electric Welder	7090.6	826	15	128.697
SF - Eastern - 20	Water Pump, 4" Electrical, Submersible	5170.9	826	1	6.257
SF - Eastern - 21	400A, Electric Welder	3900	1074	15	54.491
SF - Eastern - 23	400A, Electric Welder	120.5	161	15	11.247
SF - Eastern - 26	Water Pump, 4" Electrical, Submersible	20738.5	1355	1	15.305
SF - Eastern - 29	Water Pump, 6" Electrical, Submersible	535.4	274	1	1.957
SF - Eastern - 30	Water Pump, 4" Electrical, Submersible	1173	186	1	6.316
SF - Eastern - 30	Water Pump, 6" Electrical, Submersible	38	186	1	0.205
SF - Eastern - 31	400A, Electric Welder	350	558	15	9.411
SF - Eastern - 31	Water Pump, 4" Electrical, Submersible	21569.1	558	1	38.664
SF - Eastern - 31	Water Pump, 6" Electrical, Submersible	506.6	558	1	0.908
SF - Eastern - 32	400A, Electric Welder	500	135	15	55.556
SF - Eastern - 33	Water Pump, 4" Electrical, Submersible	5680	256	1	22.212
SF - Eastern - 35	Gantry Crane	416.7	88	0.25	1
SF - Eastern - 36	Axial Fan 114,000 CFM	15387.5	361	50	2,132
SF - Eastern - 36	Gantry Crane	7641.7	361	0.25	5
SF - Eastern - 38	Water Pump, 4" Electrical, Submersible	2133	989	1	2.156

SF - Eastern - 39	Gantry Crane	416.7	290	0.25	0
SF - Eastern - 40	Axial Fan 114,000 CFM	15409.2	391	50	1,971
SF - Eastern - 40	Gantry Crane	7650.8	391	0.25	5
SF - Eastern - 41	Gantry Crane	284.5	35	0.25	2
SF - Eastern - 42	Water Pump, 4" Electrical, Submersible	3851	2599	1	1.482
SF - Eastern - 43	Water Pump, 4" Electrical, Submersible	264.9	239	1	1.110
SF - Eastern - 48	Axial Fan 114,000 CFM	312586.1	2393	50	6,531
SF - Eastern - 48	Gantry Crane	76735	2393	0.25	8
SF - Eastern - 49	Gantry Crane	597.1	70	0.25	2
SF - Eastern - 50	400A, Electric Welder	468	40	15	175.500
SF - Eastern - 51	400A, Electric Welder	400	39	15	152.727
SF - Eastern - 3	Light Plant, 4 lite, 1000w	1864.4	253		
SF - Eastern - 14	Light Plant, 4 lite, 1000w	421.2	706		
SF - Eastern - 26	Light Plant, 4 lite, 1000w	124751.1	1355		
SF - Eastern - 30	Light Plant, 4 lite, 1000w	1077.7	186		

Vehicle Inventory for Southern Complex on Byron Tract - Eastern

Option 10

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs.)	# day	Vehicle Hours	Hours/Trip	# of Vehicles/trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/hr)
Vehicle Use on Paved Roads --- and Not on Construction Site												
SF - Eastern - 1	Pickup 1/2T 2 WD	Materials from Stockton	207	3208.9	1.1	3008	14.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 1	Pickup, 3/4T, 4wd	Materials from Stockton	207	3200.0	1.1	3000	14.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 1	Truck Flatbed 4 T Highway	Materials from Stockton	207	799.7	1.1	750	3.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 1	Truck Flatbed 4 T Highway	Two Cranes and one lift from Stockton	1	3.2	1.1	3	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 2	Pickup 1/2T 2 WD	Materials from Stockton	323	16044.4	1.1	15042	46.6	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 2	Pickup, 3/4T, 4wd	Materials from Stockton	323	16000.0	1.1	15000	46.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 2	Truck Flatbed 4 T Highway	Materials from Stockton	323	4000.3	1.1	3750	11.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 3	Pickup 1/2T 2 WD	Materials from Stockton	253	2480.0	1.1	2325	9.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 3	Pickup, 3/4T, 4wd	Materials from Stockton	253	620.2	1.1	581	2.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 3	Truck End Dump/ 10-13cy Hwy	Materials from Stockton	253	378.7	1.1	355	1.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 3	Truck Flatbed 4 T Highway	Cone, Two Rollers, two Loaders, Tractor, Grader, and Excavator	1	8.5	1.1	8	8.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 4	Pickup 1/2T 2 WD	Materials from Stockton	227	1761.3	1.1	1651	7.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 4	Pickup, 3/4T, 4wd	Materials from Stockton	227	545.3	1.1	511	2.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 4	Truck End Dump/ 10-13cy Hwy	Materials from Stockton	227	407.3	1.1	382	1.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 4	Truck Flatbed 4 T Highway	Materials from Stockton	227	1424.2	1.1	1335	5.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 4	Truck, Flatbed, 10T, Hwy	Materials from Stockton	227	30.4	1.1	29	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 4	Truck Flatbed 4 T Highway	Materials from Stockton	227	1929.6	1.1	1809	8.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 4	Truck End Dump/ 16-20cy Hwy	Base Rock, Asphalt, and Gravel from Vernalis	227	20193.6	0.7	28848	127	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Eastern - 4	Truck & Bottom Dump/ 21cy 30T	Asphalt, Hot Mix Delivered from Vernalis	227	1399	0.7	1998	8.8	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel Tier 4	
SF - Eastern - 4	Truck Flatbed 4 T Highway	Asphalt Paver and 2 Rollers from and to Stockton	2	6.4	1.1	6	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 4	Truck Flatbed 4 T Highway	One Roller and one Crane from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 5	Pickup 1/2T 2 WD	Materials from Stockton	21	187.2	1.1	176	8.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 5	Pickup, 3/4T, 4wd	Materials from Stockton	21	121.8	1.1	114	5.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 5	Truck End Dump/ 10-13cy Hwy	Materials from Stockton	21	374.4	1.1	351	16.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 5	Truck Flatbed 4 T Highway	Materials from Stockton	21	1261.9	1.1	1183	55.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 5	Truck Flatbed 4 T Highway	Two Loaders and Tractor from Stockton	1	3.2	1.1	3	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 6	Mechanics Truck	Materials from Stockton	184	18509.4	1.1	17353	95	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 6	Pickup 1/2T 2 WD	Materials from Stockton	184	19434.8	1.1	18220	99.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 6	Truck Flatbed 4 T Highway	Materials from Stockton	184	18509.4	1.1	17353	94.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 6	Truck End Dump/ 16-20cy Hwy	Gravel and Base rock from Vernalis	184	1133.3	0.7	1619	9	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Eastern - 6	Truck Flatbed 4 T Highway	Materials from Stockton	184	134.4	1.1	126	0.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 6	Truck Flatbed 4 T Highway	One Loader from Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 7	Pickup 1/2T 2 WD	Materials from Stockton	264	3478.8	1.1	3261	12.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 7	Truck End Dump/ 10-13cy Hwy	Materials from Stockton	264	234.0	1.1	219	0.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 7	Truck Flatbed 4 T Highway	Materials from Stockton	264	18252.0	1.1	17111	64.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 8	Truck Flatbed 4 T Highway	Materials from Stockton	1320	12168.0	1.1	11408	8.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 8	Truck Flatbed 10 T Highway	Materials from Stockton	1320	8382.1	1.1	7858	6.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 8	Truck Flatbed 4 T Highway	Two Cranes from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 9	Pickup 1/2T 2 WD	Materials from Stockton	245	1870.0	1.1	1753	7.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 9	Pickup, 3/4T, 4wd	Materials from Stockton	245	97.5	1.1	91	0.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 9	Truck End Dump/ 10-13cy Hwy	Materials from Stockton	245	156.0	1.1	146	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 9	Truck Flatbed 4 T Highway	Materials from Stockton	245	312.0	1.1	293	1.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 9	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	245	46.8	1.1	44	0.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 9	Truck Flatbed 4 T Highway	Materials from Stockton	245	1043.2	1.1	978	4.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 9	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	245	8.5	0.6	15	0.1	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel	
SF - Eastern - 9	Truck End Dump/ 16-20cy Hwy	Gravel and Base Rock from Vernalis	245	170.8	0.7	244	1	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Eastern - 9	Truck Flatbed 4 T Highway	Loader and Crane from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 10	Truck, Flatbed, 10T, Hwy	Materials from Stockton	91	95.1	1.1	89	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 10	Pickup, 3/4T, 4wd	Materials from Stockton	91	86.8	1.1	81	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 11	Mechanics Truck	Materials from Stockton	311	10018.6	1.1	9392	30	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 11	Pickup 1/2T 2 WD	Materials from Stockton	311	9753.9	1.1	9144	29.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 11	Pickup, 3/4T, 4wd	Materials from Stockton	311	244.3	1.1	229	0.7	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 11	Truck Flatbed 4 T Highway	Materials from Stockton	311	10018.6	1.1	9392	30.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 12	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	799	10782.1	1.1	10108	12.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 12	Pickup 1/2T 2 WD	Materials from Stockton	799	13106.8	1.1	12288	15.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 12	Truck Flatbed 4 T Highway	Materials from Stockton	799	749.9	1.1	703	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 12	Truck, Flatbed, 10T, Hwy	Rebar and Steel from Livermore	799	151.9	0.6	268	0.3	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel	
SF - Eastern - 12	Truck End Dump/ 16-20cy Hwy	Gravel and Base Rock from Vernalis	799	379.4	0.7	542	1	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Eastern - 12	Truck Flatbed 4 T Highway	Cone, Two Excavators, and Tractor from Stockton	1	4.3	1.1	4	4.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 13	Pickup 1/2T 2 WD	Materials from Stockton	964	6040.1	1.1	5663	5.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 13	Pickup, 3/4T, 4wd	Materials from Stockton	964	40.1	1.1	38	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 13	Truck Flatbed 4 T Highway	Materials from Stockton	964	3422.0	1.1	3208	3.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 13	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	964	1989.2	1.1	1865	1.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 13	Truck Flatbed 4 T Highway	Crane from Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 13	Truck Flatbed 4 T Highway	Materials from Stockton	964	621.9	1.1	583	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 13	Truck, Flatbed, 10T, Hwy	Rebar and Steel from Livermore	964	170.6	0.6	301	0.3	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel	
SF - Eastern - 14	Pickup 1/2T 2 WD	Materials from Stockton	706	2802.5	1.1	2627	3.7	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 14	Truck Flatbed 4 T Highway	Materials from Stockton	706	239.4	1.1	224	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 15A	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	264	1825.2	1.1	1711	6.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 15B	Pickup 1/2T 2 WD	Materials from Stockton	400	398.9	1.1	374	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 15B	Pickup, 3/4T, 4wd	Materials from Stockton	400	463.8	1.1	435	1.1	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	

SF - Eastern - 158	Truck Flatbed 4 T Highway	Materials from Stockton	400	721.2	1.1	676	1.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 158	Truck' End Dump' 16-20cy/ Hwy	Materials from Stockton	400	961.1	1.1	901	2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 158	Truck' End Dump' 16-20cy/ Hwy	Gravel and Base Rock from Vernalis	400	949.2	0.7	1356	3	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 158	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	400	149.6	0.6	264	0.7	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern - 158	Truck Flatbed 4 T Highway	Loader from Stockton	400	1.1	1.1	1	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 16	Pickup 1/2T 2 WD	Materials from Stockton	179	1341.6	1.1	1258	7.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 16	Pickup, 3/4T, 4wd	Materials from Stockton	179	88.1	1.1	83	0.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 16	Truck' End Dump' 16-20cy/ Hwy	Gravel and Base Rock from Vernalis	179	154.7	0.7	221	1	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 16	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	179	6.2	0.6	11	0.1	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern - 17	Pickup 1/2T 2 WD	Materials from Stockton	37	1505.5	1.1	1411	38.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 17	Pickup, 3/4T, 4wd	Materials from Stockton	37	13.3	1.1	12	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 17	Truck, Flatbed, 10T, Hwy	Rebar and Steel from Livermore	37	2.3	0.6	4	0.1	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern - 17	Truck' End Dump' 16-20cy/ Hwy	Gravel and Base Rock from Vernalis	37	307.3	0.7	439	12	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 18	Pickup 1/2T 2 WD	Materials from Stockton	34	0.2	1.1	0	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 18	Pickup, 3/4T, 4wd	Materials from Stockton	34	29.5	1.1	28	0.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 18	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	34	1.1	0.6	2	0.1	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern - 19	Pickup 1/2T 2 WD	Materials from Stockton	383	4260.3	1.1	3994	10.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 19	Pickup, 3/4T, 4wd	Materials from Stockton	383	620.5	1.1	582	1.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 19	Truck' End Dump' 16-20cy/ Hwy	Materials from Stockton	383	211.0	1.1	198	1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 19	Truck' End Dump' 10-13cy/ Hwy	Materials from Stockton	383	228.5	1.1	214	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 19	Truck Flatbed 4 T Highway	Materials from Stockton	383	386.1	1.1	362	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 19	Truck Flatbed 10 T Highway	Materials from Stockton	383	1169.9	1.1	1369	3.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 19	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	383	140.7	1.1	132	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 19	Truck' End Dump' 16-20cy/ Hwy	Gravel and Base Rock from Vernalis	383	56.0	0.7	80	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 19	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	383	15.9	0.6	28	0.1	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern - 20	Truck Flatbed 10 T Highway	Materials from Stockton	826	2271.6	1.1	2130	2.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 20	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	826	865.8	1.1	812	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 20	Truck' End Dump' 16-20cy/ Hwy	Hyash from Vernalis	826	30.5	0.7	44	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 20	Truck' End Dump' 10-13cy/ Hwy	Cement, Aggregate, and Sand from Stockton	826	1393.9	1.1	1307	1.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 21	Pickup, 3/4T, 4wd	Materials from Stockton	1074	3900.0	1.1	3656	3.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 22	Pickup 1/2T 2 WD	Materials from Stockton	269	2574.0	1.1	2413	9.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 22	Truck Flatbed 4 T Highway	Materials from Stockton	269	2457.0	1.1	2303	8.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 22	Truck Flatbed 10 T Highway	Materials from Stockton	269	117.0	1.1	110	0.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 22	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	269	292.5	1.1	274	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 23	Pickup 1/2T 2 WD	Materials from Stockton	161	14561.4	1.1	13651	84.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 23	Pickup, 3/4T, 4wd	Materials from Stockton	161	208.8	1.1	196	1.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 23	Truck' End Dump' 16-20cy/ Hwy	Materials from Stockton	161	12621.1	1.1	11832	74	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 23	Truck' End Dump' 10-13cy/ Hwy	Materials from Stockton	161	302.4	1.1	284	1.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 23	Truck, Flatbed, 10T, Hwy	Materials from Stockton	161	39.6	1.1	37	0.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 23	Truck' End Dump' 16-20cy/ Hwy	Base Rock from Vernalis	161	1579.2	0.7	2256	14	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 23	Truck Flatbed 4 T Highway	Crane, Grader, and Excavator to Stockton	1	3.2	1.1	3	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 24	Truck' End Dump' 10-13cy/ Hwy	Materials from Stockton	181	1600.0	1.1	1500	8.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 24	Truck' End Dump' 10-13cy/ Hwy	Base Rock from Vernalis	181	583.8	0.7	834	4.6	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 24	Truck, Flatbed, 10T, Hwy	Materials from Stockton	181	60.8	1.1	57	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 25	Pickup 1/2T 2 WD	Materials from Stockton	445	21303.1	1.1	19972	44.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 25	Pickup, 3/4T, 4wd	Materials from Stockton	445	279.7	1.1	262	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 26	Pickup 1/2T 2 WD	Materials from Stockton	1355	28604.8	1.1	26817	19.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 26	Truck Flatbed 4 T Highway	Materials from Stockton	1355	20738.5	1.1	19442	14.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 26	Truck, Flatbed, 10T, Hwy	Materials from Stockton	1355	154.7	1.1	145	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 27	Pickup 1/2T 2 WD	Materials from Stockton	1749	8574.4	1.1	8039	4.6	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 27	Truck' End Dump' 16-20cy/ Hwy	Base Rock from Vernalis	1749	650.3	0.7	929	1.3	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 28	Truck, Flatbed, 10T, Hwy	Materials from Stockton	2139	8301.9	1.1	7783	3.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 28	Truck, Flatbed, 4T, Hwy	Materials from Stockton	2139	13070.0	1.1	12253	5.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 29	Pickup 1/2T 2 WD	Materials from Stockton	274	3458.6	1.1	3242	11.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 29	Pickup, 3/4T, 4wd	Materials from Stockton	274	2093.1	1.1	1962	7.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 29	Truck, 400hp & 8 End Dump Tr, 28cy, 3BT	Materials from Stockton	274	3407.4	1.1	3194	11.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 29	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	274	8787.6	1.1	8238	30	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 29	Truck, Flatbed, 10T, Hwy	Materials from Stockton	274	4154.4	1.1	3895	14.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 29	Truck, Flatbed, 4T, Hwy	Materials from Stockton	274	167.0	1.1	157	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 29	Truck, Flatbed, 10T, Hwy	Materials from Stockton	274	2302.9	1.1	2159	7.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 29	Truck' End Dump' 10-13cy/ Hwy	Base Rock, Cement, Aggregate, and Sand from Stockton	274	14392.5	1.1	13463	49.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 30	Mechanics Truck	Materials from Stockton	186	1306.7	1.1	1225	7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 30	Pickup 1/2T 2 WD	Materials from Stockton	186	1186.9	1.1	1113	6.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 30	Pickup, 3/4T, 4wd	Materials from Stockton	186	171.9	1.1	161	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 30	Truck, Flatbed, 10T, Hwy	Materials from Stockton	186	246.7	1.1	231	1.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 30	Truck Flatbed 4 T Highway	Materials from Stockton	186	1306.7	1.1	1225	6.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 30	Truck' End Dump' 10-13cy/ Hwy	Gravel and Base Rock from Vernalis	186	996.3	1.1	934	5.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 30	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Livermore	186	29.5	0.6	52	0.3	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern - 30	Truck, Flatbed, 10T, Hwy	Materials from Stockton	186	236.3	0.6	417	2.2	Southern Complex on Byron Tract to/from Stockton	17	34	Diesel
SF - Eastern - 31	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	558	401.9	1.1	377	0.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 31	Pickup 1/2T 2 WD	Materials from Stockton	558	799.4	1.1	749	1.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 31	Pickup, 3/4T, 4wd	Materials from Stockton	558	33.3	1.1	31	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 31	Truck Flatbed 4 T Highway	Materials from Stockton	558	7904.1	1.1	7410	13.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 31	Truck, Flatbed, 10T, Hwy	Materials from Stockton	558	541.9	1.1	508	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 31	Truck, Flatbed, 10T, Hwy	Materials from Stockton	558	656.0	1.1	615	1.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 31	Truck' End Dump' 10-13cy/ Hwy	Gravel and Base Rock from Vernalis	558	1111.5	1.1	1042	1.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 31	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	558	252.7	0.6	446	0.8	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel

SF - Eastern - 31	Truck Flatbed 4 T Highway	Loader from and to Stockton	2	2.1	1.1	2	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 32	Truck Flatbed 4 T Highway	Materials from Stockton	135	734.0	1.1	688	5.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 32	Truck, Tractor, 75000#, 6 x 4	Materials from Stockton	135	222.2	1.1	208	1.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 32	Truck Flatbed 4 T Highway	Materials from Stockton	135	227.2	1.1	213	1.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 32	Truck Flatbed 4 T Highway	Crane and Forklift from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 32	Truck Flatbed 4 T Highway	Crane to Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 33	Mechanics Truck	Materials from Stockton	256	5680.0	1.1	5325	21	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 33	Pickup 1/2T 2 WD	Materials from Stockton	256	5680.0	1.1	5325	20.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 33	Truck Flatbed 4 T Highway	Materials from Stockton	256	5680.0	1.1	5325	20.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 33	Truck Flatbed 4 T Highway	Materials from Stockton	256	24.5	1.1	23	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 34	Truck, Flatbed, 10T, Hwy	Materials from Stockton	366	16.7	1.1	16	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 34	Truck End Dump 16-20cy Hwy	Materials from Stockton	366	3090.0	1.1	2897	7.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 34	Truck End Dump 16-20cy Hwy	Materials from Stockton	366	512.0	1.1	480	1.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 34	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Livemore	366	472.6	0.6	834	2.3	Southern Complex on Byron Tract to/from Livemore	17	34	Diesel
SF - Eastern - 34	Truck End Dump 16-20cy Hwy	Gravel and Flyash from Vernalis	366	1995.7	0.7	2851	7.8	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 34	Truck Flatbed 4 T Highway	Roller to Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 35	Truck & Bottom Dump, 21cy, 30T	Dumper	88	1817.3	1.1	1704	19.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 35	Truck Flatbed 4 T Highway	Crane to Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 36	Tunnel Utility Truck	Highway Truck	361	4252.2	1.1	3987	11.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 36	Truck, Flatbed, 10T, Hwy	Materials from Stockton	361	2158.3	1.1	2023	5.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 36	Truck End Dump 16-20cy Hwy	Materials from Stockton	361	98.1	1.1	92	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 37	Tunnel Utility Truck	Highway Truck	29	290	1.1	272	9.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 37	Truck End Dump 16-20cy Hwy	Materials from Stockton	29	1031.5	1.1	967	33.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 37	Truck & Bottom Dump 21cy 30T	Asphalt, Hot Mix Delivered from Vernalis	29	389	0.7	555	19.0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel Tier 4
SF - Eastern - 37	Truck, Flatbed, 10T, Hwy	Rebar from Livemore	29	7.4	0.6	13	0.4	Southern Complex on Byron Tract to/from Livemore	17	34	Diesel
SF - Eastern - 37	Truck End Dump 16-20cy Hwy	Base Rock and Gravel from Vernalis	29	4433.8	0.7	6334	216.3	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 37	Truck Flatbed 4 T Highway	Dozer and Loader to Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 38	Mechanics Truck	Materials from Stockton	989	2133.0	1.1	2000	2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 38	Truck End Dump 16-20cy Hwy	Materials from Stockton	989	3090.0	1.1	2897	2.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 38	Pickup, 3/4T, 4wd	Materials from Stockton	989	2133.0	1.1	2000	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 38	Truck, Flatbed, 10T, Hwy	Materials from Stockton	989	16.7	1.1	16	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 38	Truck, Flatbed, 4T, Hwy	Materials from Stockton	989	2133.0	1.1	2000	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 38	Truck, Flatbed, 10T, Hwy	Rebar from Livemore	989	58.9	0.6	104	0.1	Southern Complex on Byron Tract to/from Livemore	17	34	Diesel
SF - Eastern - 38	Truck Flatbed 4 T Highway	Materials from Stockton	989	112.0	1.1	105	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 39	Truck, Flatbed, 10T, Hwy	Materials from Stockton	290	1821.3	1.1	1707	5.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 39	Truck End Dump 16-20cy Hwy	Materials from Stockton	290	444.8	1.1	417	1.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 39	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Livemore	290	29.5	0.6	52	0.2	Southern Complex on Byron Tract to/from Livemore	17	34	Diesel
SF - Eastern - 39	Truck End Dump 16-20cy Hwy	Base Rock, Gravel, and Flyash from Vernalis	290	664.4	0.7	949	3.3	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 39	Truck Flatbed 4 T Highway	Excavator and Loader from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 40	Tunnel Utility Truck	Highway Truck	391	8508.8	1.1	7977	20.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 40	Truck, Flatbed, 10T, Hwy	Materials from Stockton	391	2086.7	1.1	1956	5.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 41	Tunnel Utility Truck	Highway Truck	35	290	1.1	272	7.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 41	Pickup 1/2T 2 WD	Materials from Stockton	35		1.1	0	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 41	Pickup, 3/4T, 4wd	Materials from Stockton	35		1.1	0	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 41	Truck, Flatbed, 10T, Hwy	Rebar from Livemore	35	21.5	0.6	38	1.1	Southern Complex on Byron Tract to/from Livemore	17	34	Diesel
SF - Eastern - 41	Truck End Dump 16-20cy Hwy	Gravel and Flyash from Vernalis	35	456.8	0.7	653	18.6	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 41	Truck Flatbed 4 T Highway	Crane and Tractor to Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 42	Mechanics Truck	Materials from Stockton	2599	3851.0	1.1	3610	1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 42	Pickup 1/2T 2 WD	Materials from Stockton	2599	3851.0	1.1	3610	1.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 42	Truck, Flatbed, 10T, Hwy	Materials from Stockton	2599	434.4	1.1	407	0.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 42	Truck Flatbed 4 T Highway	Materials from Stockton	2599	3851.0	1.1	3610	1.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 42	Truck & Bottom Dump 21cy 30T	Materials from Stockton	2599	4182.6	1.1	3921	2	Bathans PR to/from Stockton	32	64	Diesel Tier 4
SF - Eastern - 42	Truck End Dump 16-20cy Hwy	Materials from Stockton	2599	227.2	1.1	213	0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 42	Truck Flatbed 4 T Highway	Loader and three Cranes to Stockton	1	4.3	1.1	4	4.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 43	Truck, Flatbed, 10T, Hwy	Materials from Stockton	239	17.4	1.1	16	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 43	Truck End Dump 16-20cy Hwy	Materials from Stockton	239	155.7	1.1	146	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 43	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Livemore	239	51.0	0.6	90	0.4	Southern Complex on Byron Tract to/from Livemore	17	34	Diesel
SF - Eastern - 43	Truck Flatbed 4 T Highway	Two Excavators, two Loaders, Roller, Dozer, and Scraper to Stockton	1	7.5	1.1	7	7.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 43	Truck Flatbed 4 T Highway	Excavator from and to Stockton	2	2.1	1.1	2	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 44	Truck, Flatbed, 10T, Hwy	Materials from Stockton	91	1648.1	1.1	1545	16.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 44	Truck Flatbed 4 T Highway	Crane to Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 45	Truck, Flatbed, 10T, Hwy	Materials from Stockton	165	3293.0	1.1	3087	18.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 45	Truck Flatbed 4 T Highway	Two Loaders, Grader, Dozer, Skid Loader, and Roller to Stockton	1	6.4	1.1	6	6.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 46	Truck End Dump 16-20cy Hwy	Materials from Stockton	443	3816.6	1.1	3578	8.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 46	Truck, Flatbed, 10T, Hwy	Materials from Stockton	443	104.2	1.1	98	0.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 46	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Livemore	443	54.4	0.6	96	0.2	Southern Complex on Byron Tract to/from Livemore	17	34	Diesel
SF - Eastern - 46	Truck End Dump 16-20cy Hwy	Materials from Stockton	443	192.0	1.1	180	0.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 46	Truck Flatbed 4 T Highway	Two Cranes and a Forklift to Stockton	1	3.2	1.1	3	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 47	Truck Flatbed 4 T Highway	Excavator, Tractor, Grader, Scraper, Loader, and two Dozers to Stockton	1	7.5	1.1	7	7.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel

SF - Eastern - 48	Truck, Flatbed, 10T, Hay	Materials from Stockton	2393	92861.1	1.1	87057	36.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 48	Truck, Flatbed, 10T, Hay	Materials from Stockton	2393	110729.8	1.1	380	0.2	Southern Complex on Byron Tract to/from Livermore	32	64	Diesel
SF - Eastern - 48	Truck Flatbed 4 T Highway	Lift, Two Rollers, Paver, Excavator, and Loader to Stockton	1	6.4	1.1	6	6.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 49	Tunnel Utility Truck	Highway Truck	70	868.6	1.1	814	11.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 49	Truck Flatbed 4 T Highway	Crane and Tractor to Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 50	Pickup 1/2T 2 WD	Materials from Stockton	40	468.0	1.1	439	11.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 51	Pickup 1/2T 2 WD	Materials from Stockton	39	400.0	1.1	375	9.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 52	Pickup 1/2T 2 WD	Materials from Stockton	2602	19694.6	1.1	18464	7.1	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 53	Truck & Bottom Dump/ 21cy/ 30T	Asphalt, Hot Mix Delivered from Vernals	11	491	0.7	702	65.5	Southern Complex on Byron Tract to/from Vernals	21	42	Diesel Tier 4
SF - Eastern - 54	Truck & Bottom Dump/ 21cy/ 30T	Asphalt, Hot Mix Delivered from Vernals	10	489	0.7	699	69.9	Southern Complex on Byron Tract to/from Vernals	21	42	Diesel Tier 4
SF - Eastern - 55	Pickup 1/2T 2 WD	Materials from Stockton	211	200.0	1.1	188	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 55	Truck, End Dump, 10-13cy, Hay	Materials from Stockton	211	4000.0	1.1	3750	18	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 55	Truck, Flatbed, 10T, Hay	Materials from Stockton	211	113.3	0.6	200	0.9	Southern Complex on Byron Tract to/from Stockton	17	34	Diesel

Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site										Miles On-Site	
SF - Eastern - 3	CAT 770, Articulated End dump	Dumper	253	233.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1166	Diesel or Hybrid
SF - Eastern - 3	Articulated Rear Dump 22 CV/CAT 730	Dumper	253	2181.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		10907	Diesel or Hybrid
SF - Eastern - 3	Truck & Bottom Dump, 21cy, 30T	Dumper	253	2408.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		12045	Diesel
SF - Eastern - 4	CAT 770, Articulated End dump	Dumper	227	101.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		509	Diesel or Hybrid
SF - Eastern - 4	Articulated Rear Dump 22 CV/CAT 735	Dumper	227	1069.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		5347	Diesel or Hybrid
SF - Eastern - 5	Cat 770, 5.11HP	Dumper	21	121.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		609	Diesel or Hybrid
SF - Eastern - 5	Articulated Rear Dump 22 CV/CAT 735	Dumper	21	243.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1219	Diesel or Hybrid
SF - Eastern - 9	Articulated Rear Dump 22 CV/CAT 730	Dumper	245	195.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		975	Diesel or Hybrid
SF - Eastern - 9	Trailer, Lowboy, 50T	Off-Highway Truck	245	46.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		234	Diesel
SF - Eastern - 9	CAT735, 35T, Articulated End dump	Dumper	245	88	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		439	Diesel or Hybrid
SF - Eastern - 9	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	245	1680.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		8400	Diesel
SF - Eastern - 10	CAT735, 35T, Articulated End Dump	Dumper	91	87	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		434	Diesel or Hybrid
SF - Eastern - 10	Cat 770, 5.11HP	Dumper	91	86.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		0	Diesel or Hybrid
SF - Eastern - 10	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	91	468.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2340	Diesel
SF - Eastern - 11	Articulated Rear Dump 22 CV/CAT 730	Dumper	311	40074.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		200372	Diesel or Hybrid
SF - Eastern - 11	CAT 770 Dump	Dumper	311	244	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1222	Diesel or Hybrid
SF - Eastern - 11	CAT735, 35T, Articulated End Dump	Dumper	311	489	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2443	Diesel or Hybrid
SF - Eastern - 12	Trailer, Lowboy, 50T	Off-Highway Truck	799	10782.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		53911	Diesel
SF - Eastern - 12	CAT 740 40T, Articulated End dump	Dumper	799	3092.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		15461	Diesel or Hybrid
SF - Eastern - 12	Tremie Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	799	16687.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		83436	Diesel
SF - Eastern - 13	Trailer, Lowboy, 50T	Off-Highway Truck	964	1989.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		9946	Diesel
SF - Eastern - 13	CAT 770 Dump	Dumper	964	40	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		201	Diesel or Hybrid
SF - Eastern - 13	Articulated Rear Dump 22 CV/CAT 730	Dumper	964	9120.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		45604	Diesel or Hybrid
SF - Eastern - 13	CAT 740 40T, Articulated End dump	Dumper	964	287.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1435	Diesel or Hybrid
SF - Eastern - 13	Articulated Rear Dump 22 CV/CAT 735	Dumper	964	1201.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		6009	Diesel or Hybrid
SF - Eastern - 13	CAT773, 53.7T, End Dump	Dumper	964	1856.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		9282	Diesel or Hybrid
SF - Eastern - 13	Tremie Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	964	3551.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		17759	Diesel
SF - Eastern - 14	CAT 740 40T, Articulated End dump	Dumper	706	2908.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		14545	Diesel or Hybrid
SF - Eastern - 14	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	706	4449.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		22250	Diesel
SF - Eastern - 15A	Trailer, Lowboy, 50T	Off-Highway Truck	264	7300.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		36504	Diesel
SF - Eastern - 15B	CAT 770 Dump	Dumper	400	464	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2319	Diesel or Hybrid
SF - Eastern - 15B	Articulated Rear Dump 22 CV/CAT 730	Dumper	400	721.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		3606	Diesel or Hybrid
SF - Eastern - 15B	Articulated Rear Dump 22 CV/CAT 735	Dumper	400	8671.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		43355	Diesel or Hybrid
SF - Eastern - 15B	Tremie Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	400	2679.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		13396	Diesel
SF - Eastern - 16	Articulated Rear Dump 22 CV/CAT 730	Dumper	179	176.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		881	Diesel or Hybrid
SF - Eastern - 16	Tremie Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	179	332.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1665	Diesel
SF - Eastern - 17	Articulated Rear Dump 22 CV/CAT 730	Dumper	37	26.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		133	Diesel or Hybrid
SF - Eastern - 18	Articulated Rear Dump 22 CV/CAT 730	Dumper	34	58.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		295	Diesel or Hybrid
SF - Eastern - 18	Concrete Pump Truck	Off-Highway Truck	34	24.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		122	Diesel
SF - Eastern - 19	CAT 770 Dump	Dumper	383	1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		3	Diesel or Hybrid
SF - Eastern - 19	Articulated Rear Dump 22 CV/CAT 730	Dumper	383	328.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1641	Diesel or Hybrid
SF - Eastern - 19	CAT 740 40T, Articulated End dump	Dumper	383	15.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		77	Diesel or Hybrid
SF - Eastern - 19	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	383	893.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		4466	Diesel
SF - Eastern - 20	Tremie Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	826	2415.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		12078	Diesel
SF - Eastern - 22	Trailer, Lowboy, 50T	Off-Highway Truck	269	292.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1463	Diesel

SF - Eastern - 23	Articulated Rear Dump 22 CV/CAT 730	Dumper	161	5595.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	27977	Diesel or Hybrid
SF - Eastern - 23	Articulated Rear Dump 22 CV/CAT 735	Dumper	161	484.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2422	Diesel or Hybrid
SF - Eastern - 24	Tremie Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	181		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 25	Articulated Rear Dump 22 CV/CAT 735	Dumper	445	41697.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	208485	Diesel or Hybrid
SF - Eastern - 26	CAT 770 Dump	Dumper	1355	11203	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	56014	Diesel or Hybrid
SF - Eastern - 26	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	1355		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 27	CAT 769, 41.6T End Dump	Dumper	1749	34297.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
SF - Eastern - 28	Cat 770, 511HP	Dumper	2139		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
SF - Eastern - 28	Cat 745 41T, Articulated End Dump	Dumper	2139		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
SF - Eastern - 29	CAT735, 35T, Articulated End Dump	Dumper	274	8194	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	40972	Diesel or Hybrid
SF - Eastern - 29	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	274		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 30	Cat 770, 511HP	Dumper	186	134.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	674	Diesel or Hybrid
SF - Eastern - 30	Articulated Rear Dump 22 CV/CAT 730	Dumper	186	3081.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	15406	Diesel or Hybrid
SF - Eastern - 30	CAT735, 35T, Articulated End Dump	Dumper	186	287	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1435	Diesel or Hybrid
SF - Eastern - 30	Trailer, Lowboy, 50T	Off-Highway Truck	186	550.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2750	Diesel
SF - Eastern - 30	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	186		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 31	Trailer, Lowboy, 50T	Off-Highway Truck	558	401.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2010	Diesel
SF - Eastern - 31	Articulated Rear Dump 22 CV/CAT 730	Dumper	558	13991.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	69956	Diesel or Hybrid
SF - Eastern - 31	Cat 770, 511HP	Dumper	558	205.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	10277	Diesel or Hybrid
SF - Eastern - 31	CAT 740 40T, Articulated End dump	Dumper	558	610.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3050	Diesel or Hybrid
SF - Eastern - 31	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	558		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 32	Trailer, Lowboy, 50T	Off-Highway Truck	135	222.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1111	Diesel
SF - Eastern - 32	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	135		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 34	Articulated Rear Dump 22 CV/CAT 730	Dumper	366	919.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	4597	Diesel or Hybrid
SF - Eastern - 35	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	88	384.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1920	Diesel
SF - Eastern - 36	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	361	2432.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	12160	Diesel
SF - Eastern - 38	Articulated Rear Dump 22 CV/CAT 730	Dumper	989	666.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3334	Diesel or Hybrid
SF - Eastern - 43	Articulated Rear Dump 22 CV/CAT 730	Dumper	239	861.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	4307	Diesel or Hybrid
SF - Eastern - 43	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	239	1765.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	8828	Diesel
SF - Eastern - 45	Articulated Rear Dump 22 CV/CAT 730	Dumper	165	1449.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	7245	Diesel or Hybrid
SF - Eastern - 46	Articulated Rear Dump 22 CV/CAT 730	Dumper	443	610.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3051	Diesel or Hybrid
SF - Eastern - 46	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	443	1481.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	7405	Diesel
SF - Eastern - 55	CAT 740 40T, Articulated End dump	Dumper	211	200.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1000	Diesel or Hybrid

**Employees Required to Southern Complex on Byron Tract - Eastern
Option 10**

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
SF - Eastern - 1	Carpenter Apprentice	8.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 1	Carpenter Foreman	8.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 1	Carpenter Journeyman	17.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 1	Electrical Foreman	4.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 1	Electrical Journeyman	17.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 1	Iron Worker Journeyman	17.8				32
SF - Eastern - 1	Rebar/Struct		10		Stockton to/from Southern Complex on Byron Tract	
SF - Eastern - 1	Laborer G2 General	3217.8	10		Stockton to/from Southern Complex on Byron Tract	32
						32
SF - Eastern - 1	Operator G3a Cranes 45 t and under	328.8	10		Stockton to/from Southern Complex on Byron Tract	
SF - Eastern - 1	Teamster G1 Hwy ED<6cy, Flatbed	799.7	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 1	Teamster G3 Boom Truck	4.4	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-1						
SF - Eastern - 2	Carpenter Apprentice	44.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Carpenter Foreman	44.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Carpenter Journeyman	88.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Electrical Foreman	22.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Electrician Journeyman	88.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Iron Worker Journeyman Rebar/Stru	88.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Laborer G2 General	16088.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Operator G3a Cranes 45 t and under	1644.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Teamster G1 Hwy ED<6cy, Flatbed	4000.3	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Teamster G3 Boom Truck	22.2	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-2						
SF - Eastern - 3	Laborer G1 Pipe layers	757.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Laborer G1 Power Tamper	378.7	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Laborer G2 General	4903.5	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Laborer G3 Flagman	1240.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Operator G3 Loader >4cy	328.5	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Operator G2a Cranes 45 to 100 t	2423.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	OPERATING ENGINEER FOREMAN	2480.0	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Operator G2 Excavator 3.5 to 7.0	363.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Operator G2 Finish Blade	853.3	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Operator G3 BH-Loader>3/4cy	2613.1	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Operator G4 Dozer & Push Cat	1799.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Operator G4 Grade Check	1211.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Operator G5 Compactor w-blade	1086.3	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Teamster G2 Hwy ED 6-8cy, Water	1604.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Teamster G3 ED 8-24cy, Water>7	4895.3	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-3						
			150			
SF - Eastern - 4	Laborer Foreman	30.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Laborer G1 Pipe layers	401.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Laborer G3 Bridge labor	5697.0	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Laborer G1 Power Tamper	140.0	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Laborer G2 General	1412.5	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Laborer G3 Flagman	1090.5	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	OPERATING ENGINEER FOREMAN	2653.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G2 Finish Blade	646.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G1a Cranes>100 t	1424.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G2 Excavator 3.5 to 7.0 cy	267.3	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G2a Cranes 45 to 100 t	1424.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G3 BH-Loader>3/4cy	407.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G4 Dozer & Push Cat	470.7	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G4 Grade Check	857.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G4 Loader <4.1cy	70.0	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G4a Boom truck<15 ton	35.1	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G5 Asphalt Roller	623.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G5 Compactor w-blade	203.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G5 Paver	311.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G7 Roller, Compactor	545.3	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G8 Generator	109.1	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Pile Driver Wharf and Dock	5697.0	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Teamster G1 Hwy ED<6cy, Flatbed	1469.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Teamster G2 Hwy ED 6-8cy, Water<7	1123.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Teamster G3 Boom Truck	35.1	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Teamster G3 ED 8-24cy, Water>7mg;	1069.4	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-4						
SF - Eastern - 5	Laborer G2 General	374.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Laborer G3 Flagman	374.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	OPERATING ENGINEER FOREMAN	309.0	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Operator G2 Finish Blade	243.7	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Operator G3 Loader >4cy	121.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Operator G4 Dozer & Push Cat	374.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Operator G4 Grade Check	121.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Operator G4 Loader <4.1cy	309.0	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Operator G4 Trim Machine	93.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Operator G5 Compactor w-blade	121.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Teamster G2 Hwy ED 6-8cy, Water<7	187.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Teamster G3 ED 8-24cy, Water>7mg;	618.1	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Teamster G4 Water Tanker, Off Hwy	121.8	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-5						
SF - Eastern - 6	Carpenter Apprentice	925.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Carpenter Foreman	925.4	10		Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 6	Carpenter Journeyman	1850.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Electrical Foreman	231.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Electrician Journeyman	926.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Iron Worker Journeyman Rebar/Stru	1850.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Laborer G2 General	57378.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	OPERATING ENGINEER FOREMAN	18509.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Operator G2 Plant Operator	37018.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Operator G3 BH-Loader>3/4cy	18509.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Operator G3a Cranes 45 t and under	18509.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Operator G4 Grade Check	18509.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Operator G4 Hvy Duty Mechanic	18509.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Operator G4a Boom truck<15 ton	925.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Teamster G1 Hwy ED<6cy, Flatbed	18509.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Teamster G2 Hwy ED 6-8cy, Water<7	18509.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Teamster G3 Boom Truck	462.7	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-6					
SF - Eastern - 7	Carpenter Apprentice	3385.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Carpenter Foreman	3385.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Carpenter Journeyman	6605.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Electrical Foreman	1303.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Electrician Journeyman	4250.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Iron Worker Journeyman Rebar/Stru	6770.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Laborer Foreman	10062.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Laborer G1 Pipe layers	1872.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Laborer G2 General	47112.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	OPERATING ENGINEER FOREMAN	93.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G2 Finish Blade	93.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G2a Cranes 45 to 100 t	164.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G3a Cranes 45 t and under	1876.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G4 BH-Loader <.76cy	1872.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G4 Dozer & Push Cat	93.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G4 Grade Check	93.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G4 Loader <4.1cy	9126.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G4 Scraper	187.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G4a Boom truck<15 ton	1756.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G6 Tractor	4563.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G7 Roller, Compactor	93.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Teamster G2 Hwy ED 6-8cy, Water<7	1029.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Teamster G3 Boom Truck	1692.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Teamster G1 Hwy ED<6cy, Flatbed	18252.0	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-7					
SF - Eastern - 8	Carpenter Journeyman	15520.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Electrician Journeyman	15520.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Laborer Foreman	8382.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Laborer G4 Clean-up	16764.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Operator G1a Cranes>100 t	48672.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Operator G2 Finish Blade	1676.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Operator G3 BH-Loader>3/4cy	8382.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Operator G4 Hvy Duty Mechanic	12168.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Operator G5 Compactor w-blade	1676.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Operator G5 Concrete Pump	6084.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Operator G7 Oiler	36504.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Teamster G1 Hwy ED<6cy, Flatbed	20550.1	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-8					
SF - Eastern - 9	Carpenter Apprentice	1170.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Carpenter Foreman	1494.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Carpenter Journeyman	4626.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Cement Mason Foreman	141.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Cement Mason Journeyman	735.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Electrical Foreman	1170.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Electrician Journeyman	5928.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Iron Worker Foreman	421.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Iron Worker Journeyman Rebar/Stru	9968.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Laborer Foreman	811.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Laborer G1 Pipe layers	1248.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Laborer G1 Vibrator, Green Cutter	234.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Laborer G2 Concrete Laborer	351.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Laborer G2 General	5643.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Laborer G2 High Pressure Nozzlemar	70.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	OPERATING ENGINEER FOREMAN	126.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G1a Cranes>100 t	46.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G2 Excavator 3.5 to 7.0 cy	29.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G2 Finish Blade	7.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G2a Cranes 45 to 100 t	222.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G3 BH-Loader>3/4cy	624.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G3 Loader >4cy	768.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G3a Cranes 45 t and under	1170.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G4 Dozer & Push Cat	126.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G4 Grade Check	126.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G4 Hvy Duty Mechanic	87.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G4a Boom truck<15 ton	1170.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G5 Compactor w-blade	97.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G7 Oiler	46.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Pile Driver Foreman	46.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Pile Driver Journeyman	234.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Teamster G1 Hwy ED<6cy, Flatbed	312.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Teamster G2 Hwy ED 6-8cy, Water<7	368.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Teamster G3 Boom Truck	1170.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Teamster G3 ED 8-24cy, Water>7mg	2047.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Teamster G4 ED 25-65 Cy	282.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Teamster G4 Tractor, Lowbed/Trailer	46.8	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-9			370		
SF - Eastern - 10	Carpenter Foreman	375.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Compactor Journeyman	2462.9	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 10	Cement Mason Foreman	469.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Cement Mason Journeyman	2967.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Iron Worker Foreman	363.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Iron Worker Journeyman Rebar/Stru	2542.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Laborer Foreman	134.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Laborer G1 Vibrator, Green Cutter	269.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Laborer G2 Concrete Laborer	403.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Laborer G2 General	2564.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	OPERATING ENGINEER FOREMAN	86.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Operator G2 Finish Blade	86.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Operator G2a Cranes 45 to 100 t	380.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Operator G3 Loader >4cy	86.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Operator G4 Hvy Duty Mechanic	95.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Operator G5 Compactor w-blade	86.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Teamster G1 Hwy ED<6cy, Flatbed	95.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Teamster G3 ED 8-24cy, Water>7mgi	743.9	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-10					
SF - Eastern - 11	Carpenter Apprentice	1084.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Carpenter Foreman	1084.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Carpenter Journeyman	2169.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Electrical Foreman	271.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Electrician Journeyman	1084.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Iron Worker Foreman	10021.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Iron Worker Journeyman Rebar/Stru	16952.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Laborer Foreman	10019.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Laborer G2 Concrete Laborer	60119.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Laborer G2 General	87241.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	OPERATING ENGINEER FOREMAN	18834.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G1a Cranes>100 t	28611.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G2 Finish Blade	488.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G2 Micro Tunnel	20038.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G2a Cranes 45 to 100 t	20038.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G3 BH-Loader>3/4cy	10018.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G3 Loader >4cy	10262.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G4 Dozer & Push Cat	10018.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G4 Grade Check	10262.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G4 Hvy Duty Mechanic	10018.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G4 Loader <4.1cy	244.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G4a Boom truck<15 ton	1084.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G5 Compactor w-blade	244.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G5 Drilling & Boring Mach	234.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G7 Oiler	48884.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Teamster G1 Hwy ED<6cy, Flatbed	10018.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Teamster G3 Boom Truck	542.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Teamster G3 ED 8-24cy, Water>7mgi	40563.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Teamster G4 Water Tanker, Off Hwy	244.3	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-11					
SF - Eastern - 12	Carpenter Foreman	4171.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Carpenter Journeyman	27688.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Cement Mason Foreman	1113.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Cement Mason Journeyman	4347.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Iron Worker Foreman	20150.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Iron Worker Journeyman Rebar/Stru	137226.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Laborer Foreman	10019.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Laborer G1 Vibrator, Green Cutter	2592.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Laborer G2 Concrete Laborer	15604.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Laborer G2 General	57083.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Laborer G2 High Pressure Nozzlemar	5469.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	OPERATING ENGINEER FOREMAN	4879.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G1a Cranes>100 t	19807.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G2 Excavator 3.5 to 7.0 cy	3959.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G2 Finish Blade	158.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G2 Plant Operator	187.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G2a Cranes 45 to 100 t	8818.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G3 Loader >4cy	317.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G3a Cranes 45 t and under	441.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G4 Dozer & Push Cat	1688.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G4 Hvy Duty Mechanic	973.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G5 Compactor w-blade	317.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G6 Screedman	251.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G6 Tractor	317.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G7 Oiler	19807.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G8a Skidsteer <Bobcat 743	325.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Teamster G2 Hwy ED 6-8cy, Water<7	404.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Teamster G3 ED 8-24cy, Water>7mgi	16687.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Teamster G4 ED 25-65 Cy	11315.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Teamster G4 Tractor, Lowbed/Trailer	10782.1	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-12					
SF - Eastern - 13	Carpenter Apprentice	159.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Carpenter Foreman	7488.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Carpenter Journeyman	36057.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Cement Mason Foreman	853.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Cement Mason Journeyman	3364.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Electrical Foreman	1748.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Electrical Lineman	1684.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Electrician Journeyman	253.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Iron Worker Foreman	8514.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Iron Worker Journeyman Rebar/Stru	61686.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Iron Worker-Rigger	595.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Laborer Foreman	6311.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Laborer G1 Vibrator, Green Cutter	2367.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Laborer G2 Concrete Laborer	20793.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Laborer G2 General	56513.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Laborer G2 High Pressure Nozzlemar	928.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Laborer G3 Flagman	560.8	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 13	Millwright	6739.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	OPERATING ENGINEER FOREMAN	5706.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G1a Cranes>100 t	14370.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G2 Excavator 3.5 to 7.0 cy	352.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G2 Finish Blade	186.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G2 Micro Tunnel	4561.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G2a Cranes 45 to 100 t	9744.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G3 BH-Loader>3/4cy	2280.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G3 Loader >4cy	2392.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G4 Dozer & Push Cat	2941.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G4 Grade Check	2460.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G4 Hvy Duty Mechanic	2757.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G4 Loader <4.1cy	40.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G4a Boom truck<15 ton	253.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G5 Compactor w-blade	111.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G6 Screedman	200.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G6 Tractor	71.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G7 Oiler	21212.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G8a Skidsteer <Bobcat 743	106.1]	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Pipefitter Foreman	1684.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Pipefitter Journeyman	1684.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Teamster G1 Hwy ED<6cy, Flatbed	3422.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Teamster G2 Hwy ED 6-8cy, Water<7	194.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Teamster G3 Boom Truck	126.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Teamster G3 ED 8-24cy, Water>7mg;	12752.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Teamster G4 ED 25-65 Cy	3265.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Teamster G4 Tractor, Lowbed/Trailer	1989.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Teamster G4 Water Tanker, Off Hwy	40.1	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-13					
SF - Eastern - 14	Carpenter Apprentice	901.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Carpenter Foreman	11192.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Carpenter Journeyman	64179.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Cement Mason Foreman	2745.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Cement Mason Journeyman	13891.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Electrical Foreman	117.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Electrical Lineman	117.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Iron Worker Foreman	9063.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Iron Worker Journeyman Rebar/Stru	58745.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Iron Worker-Rigger	233.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Laborer Foreman	3724.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Laborer G1 Vibrator, Green Cutter	2099.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Laborer G2 Concrete Laborer	7880.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Laborer G2 General	46132.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Laborer G2 High Pressure Nozzlemar	995.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Millwright	936.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	OPERATING ENGINEER FOREMAN	1123.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G1a Cranes>100 t	8996.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G2 Excavator 3.5 to 7.0 cy	1650.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G2 Finish Blade	297.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G2a Cranes 45 to 100 t	4349.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G3 Loader >4cy	595.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G4 Dozer & Push Cat	595.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G4 Hvy Duty Mechanic	923.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G4 Loader <4.1cy		10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G5 Compactor w-blade	595.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G6 Screedman	404.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G6 Tractor	595.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G7 Oiler	9463.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G8a Skidsteer <Bobcat 743	1679.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Pile Driver Foreman	190.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Pile Driver Journeyman	1143.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Pipefitter Foreman	117.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Pipefitter Journeyman	117.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Teamster G1 Hwy ED<6cy, Flatbed	239.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Teamster G2 Hwy ED 6-8cy, Water<7	1828.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Teamster G3 ED 8-24cy, Water>7mg;	4449.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Teamster G4 ED 25-65 Cy	2908.9	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-14					
SF - Eastern - 15A	Operator G1a Cranes>100 t	3650.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15A	Operator G3 BH-Loader>3/4cy	3650.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15A	Operator G7 Oiler	3650.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15A	Pipefitter Apprentice	14601.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15A	Pipefitter Foreman	3650.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15A	Pipefitter Journeyman	21902.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15A	Teamster G4 Tractor, Lowbed/Trailer	1825.2	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-15					
SF - Eastern - 15B	Carpenter Apprentice	93.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Carpenter Foreman	3288.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Carpenter Journeyman	19548.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Cement Mason Foreman	684.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Cement Mason Journeyman	3138.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Electrical Foreman	23.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Electrician Journeyman	93.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Iron Worker Foreman	7669.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Iron Worker Journeyman Rebar/Stru	54272.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Laborer Foreman	2539.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Laborer G1 Vibrator, Green Cutter	1364.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Laborer G2 Concrete Laborer	5358.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Laborer G2 General	17680.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Laborer G2 High Pressure Nozzlemar	2682.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	OPERATING ENGINEER FOREMAN	2640.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G1a Cranes>100 t	3550.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G2 Excavator 3.5 to 7.0 cy	1455.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G2 Finish Blade	1291.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G2 Micro Tunnel	210.6	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 15B	Operator G2 Plant Operator	721.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G2a Cranes 45 to 100 t	1981.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G3 BH-Loader>3/4cy	721.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G3 Loader >4cy	1185.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G3a Cranes 45 t and under	721.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G4 Dozer & Push Cat	3633.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G4 Grade Check	1919.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G4 Hvy Duty Mechanic	262.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G4a Boom truck<15 ton	46.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G5 Compactor w-blade	463.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G6 Screedman	98.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G7 Oiler	4481.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G8a Skidsteer <Bobcat 743	305.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Teamster G1 Hwy ED<6cy, Flatbed	721.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Teamster G2 Hwy ED 6-8cy, Water<7	1390.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Teamster G3 Boom Truck	46.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Teamster G3 ED 8-24cy, Water>7mg;	2679.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Teamster G4 ED 25-65 Cy	9392.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Teamster G4 Water Tanker, Off Hwy	463.8	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-15					

SF - Eastern - 16	Carpenter Apprentice	1341.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Carpenter Foreman	1471.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Carpenter Journeyman	3705.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Cement Mason Foreman	165.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Cement Mason Journeyman	941.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Electrical Foreman	1341.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Electrician Journeyman	2683.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Iron Worker Foreman	301.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Iron Worker Journeyman Rebar/Stru	4796.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Laborer Foreman	129.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Laborer G1 Vibrator, Green Cutter	222.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Laborer G2 Concrete Laborer	665.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Laborer G2 General	4504.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Laborer G2 High Pressure Nozzlelema	18.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	OPERATING ENGINEER FOREMAN	88.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G1a Cranes>100 t	352.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G2a Cranes 45 to 100 t	352.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G3 Loader >4cy	88.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G3a Cranes 45 t and under	1341.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G4 Dozer & Push Cat	88.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G4 Grade Check	88.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G4 Hvy Duty Mechanic	88.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G4a Boom truck<15 ton	1341.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G5 Compactor w-blade	88.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G6 Screedman	111.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G7 Oiler	352.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Teamster G2 Hwy ED 6-8cy, Water<7	44.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Teamster G3 Boom Truck	1341.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Teamster G3 ED 8-24cy, Water>7mg;	332.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Teamster G4 ED 25-65 Cy	176.2	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-16					

SF - Eastern - 17	Carpenter Apprentice	1501.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Carpenter Foreman	1544.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Carpenter Journeyman	3308.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Cement Mason Foreman	37.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Cement Mason Journeyman	230.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Electrical Foreman	1501.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Electrician Journeyman	3003.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Iron Worker Foreman	103.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Iron Worker Journeyman Rebar/Stru	3727.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Laborer Foreman	41.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Laborer G1 Vibrator, Green Cutter	59.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Laborer G2 Concrete Laborer	89.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Laborer G2 General	3471.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Laborer G2 High Pressure Nozzlelema	11.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	OPERATING ENGINEER FOREMAN	13.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G1a Cranes>100 t	94.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G2a Cranes 45 to 100 t	94.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G3 Loader >4cy	13.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G3a Cranes 45 t and under	1501.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G4 Dozer & Push Cat	13.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G4 Grade Check	13.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G4 Hvy Duty Mechanic	23.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G4a Boom truck<15 ton	1501.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G5 Compactor w-blade	13.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G6 Screedman	29.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G7 Oiler	94.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Teamster G2 Hwy ED 6-8cy, Water<7	6.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Teamster G3 Boom Truck	1501.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Teamster G3 ED 8-24cy, Water>7mg;	44.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Teamster G4 ED 25-65 Cy	26.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-17					

SF - Eastern - 18	Carpenter Foreman	39.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Carpenter Journeyman	275.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Cement Mason Foreman	24.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Cement Mason Journeyman	137.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Electrical Foreman	0.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Electrician Journeyman	0.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Iron Worker Foreman	56.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Iron Worker Journeyman Rebar/Stru	393.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Laborer Foreman	22.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Laborer G1 Vibrator, Green Cutter	32.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Laborer G2 Concrete Laborer	48.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Laborer G2 General	288.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Laborer G2 High Pressure Nozzlelema	6.5	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 18	Millwright	0.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	OPERATING ENGINEER FOREMAN	29.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G1a Cranes>100 t	51.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G2a Cranes 45 to 100 t	51.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G3 Loader >4cy	29.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G3a Cranes 45 t and under	0.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G4 Dozer & Push Cat	29.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G4 Grade Check	29.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G4 Hvy Duty Mechanic	12.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G4a Boom truck<15 ton	0.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G5 Compactor w-blade	29.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G7 Oiler	51.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Teamster G2 Hwy ED 6-8cy, Water<7	14.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Teamster G3 Boom Truck	0.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Teamster G3 ED 8-24cy, Water>7mg;	24.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Teamster G4 ED 25-65 Cy	58.9	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Eastern-18

SF - Eastern - 19	Carpenter Apprentice	2679.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Carpenter Foreman	2972.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Carpenter Journeyman	7383.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Cement Mason Foreman	343.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Cement Mason Journeyman	2374.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Electrical Foreman	2856.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Electrician Lineman	177.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Electrician Journeyman	5358.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Iron Worker Foreman	810.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Iron Worker Journeyman Rebar/Stru	11034.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Laborer Foreman	2458.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Laborer G1 Pipe Layers	1827.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Laborer G1 Vibrator, Green Cutter	595.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Laborer G2 Concrete Laborer	2699.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Laborer G2 General	18459.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Laborer G2 High Pressure Nozzlemar	70.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Laborer G3 Flagman	70.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	OPERATING ENGINEER FOREMAN	281.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G1a Cranes>100 t	472.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G2 Excavator 3.5 to 7.0 cy	3.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G2 Finish Blade	73.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G3a Cranes 45 t and under	945.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G3 BH-Loader>3/4cy	1621.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G3 Loader >4cy	1078.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G3a Cranes 45 t and under	2679.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G4 Dozer & Push Cat	170.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G4 Grade Check	210.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G4 Hvy Duty Mechanic	236.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G4 Loader <4.1cy	70.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G4a Boom truck<15 ton	2679.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G5 Asphalt Roller	87.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G5 Compactor w-blade	237.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G5 Curb & Gutter Conc Fini	304.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G5 Paver	43.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G6 Screedman	297.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G6 Tractor	0.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G7 Oiler	945.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G8 Pump	14.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G8a Skidsteer <Bobcat 743	1359.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Teamster G1 Hwy ED<6cy, Flatbed	1556.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Teamster G2 Hwy ED 6-8cy, Water<7	1189.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Teamster G3 Boom Truck	2670.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Teamster G3 ED 8-24cy, Water>7mg;	1104.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Teamster G4 ED 25-65 Cy	343.6	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Eastern-19

SF - Eastern - 20	Carpenter Apprentice	5590.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Carpenter Foreman	14792.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Carpenter Journeyman	69709.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Cement Mason Foreman	2010.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Cement Mason Journeyman	7634.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Electrical Foreman	6467.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Electrician Journeyman	18525.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Iron Worker Foreman	7565.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Iron Worker Journeyman Rebar/Stru	57263.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Laborer Foreman	2567.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Laborer G1 Vibrator, Green Cutter	1610.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Laborer G2 Concrete Laborer	4831.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Laborer G2 General	48230.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Laborer G2 High Pressure Nozzlemar	487.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Operator G1a Cranes>100 t	7835.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Operator G3a Cranes 45 t and under	8521.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Operator G4 Hvy Duty Mechanic	646.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Operator G4a Boom truck<15 ton	5070.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Operator G6 Screedman	358.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Operator G7 Oiler	8701.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Operator G8a Skidsteer <Bobcat 743	104.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Pipefitter Apprentice	578.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Pipefitter Foreman	874.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Pipefitter Journeyman	5243.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Teamster G1 Hwy ED<6cy, Flatbed	2271.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Teamster G2 Hwy ED 6-8cy, Water<7	2415.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Teamster G3 Boom Truck	5070.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Teamster G3 ED 8-24cy, Water>7mg;	2415.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Teamster G4 Tractor, Lowbed/Trailer	865.8	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Eastern-20

SF - Eastern - 21	Carpenter Foreman	3900.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 21	Carpenter Journeyman	7800.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 21	Laborer G2 General	3900.0	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Eastern-21

SF - Eastern - 22	Carpenter Foreman	2457.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Electrical Lineman	4680.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Electrical Foreman	1287.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Electrician Journeyman	468.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Iron Worker Rigger	140.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Laborer G2 General	234.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Millwright	14508.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Operator G1a Cranes>100 t	468.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Operator G3a Cranes 45 t and under	1647.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Operator G7 Oiler	468.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Pipefitter Foreman	1746.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Pipefitter Journeyman	5238.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Teamster G1 Hwy ED<6cy, Flatbed	2574.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Teamster G4 Tractor, Lowbed/Trailer	292.5	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Eastern-22

SF - Eastern - 23	Carpenter Apprentice	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Carpenter Foreman	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Carpenter Journeyman	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Electrical Foreman	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Electrician Journeyman	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Iron Worker Rigger	50.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Iron Worker Journeyman Rebar/Stru	241.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Laborer Foreman	39.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Laborer G1 Pipe Layer	2577.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Laborer G2 General	5318.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Laborer G3 Flagman	337.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	OPERATING ENGINEER FOREMAN	14800.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G2 Excavator 3.5 to 7.0 cy	1220.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G2 Finish Blade	25208.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G2a Cranes 45 to 100 t	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G3 BH-Loader>3/4cy	7538.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G3 Loader >4cy	1499.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G3a Cranes 45 t and under	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G4 BH-Loader <.76cy	50.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G4 Dozer & Push Cat	2052.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G4 Grade Check	208.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G4 Scraper	80.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G4a Boom truck<15 ton	110.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G5 Compactor w-blade	920.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G8 Pump	33.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Teamster G1 Hwy ED<6cy, Flatbed	59.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Teamster G2 Hwy ED 6-8cy, Water<7	26438.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Teamster G3 Boom Truck	170.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Teamster G3 ED 8-24cy, Water>7mg;	19086.2	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Eastern-23

SF - Eastern - 24	Laborer G2 General	400.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 24	Laborer G3 Flagman	400.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 24	OPERATING ENGINEER FOREMAN	200.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 24	Operator G2 Finish Blade	100.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 24	Operator G4 Dozer & Push Cat	400.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 24	Operator G4 Loader <4.1cy	200.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 24	Teamster G2 Hwy ED 6-8cy, Water<7	200.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 24	Teamster G3 ED 8-24cy, Water>7mg;	1600.0	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Eastern-24

SF - Eastern - 25	Electrical Lineman	1560.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Laborer Foreman	3900.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Laborer G1 Pipe layers	7800.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Laborer G3 Flagman	41522.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Laborer G4 Clean-up	559.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	OPERATING ENGINEER FOREMAN	21582.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Operator G2 Excavator 3.5 to 7.0 cy	22124.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Operator G2 Finish Blade	5190.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Operator G4 Dozer & Push Cat	22404.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Operator G4 Grade Check	10380.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Operator G8 Generator	7800.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Teamster G2 Hwy ED 6-8cy, Water<7	5190.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Teamster G3 Boom Truck	3900.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Teamster G3 ED 8-24cy, Water>7mg;	83604.9	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Eastern-25

SF - Eastern - 26	Laborer G2 General	64408.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	OPERATING ENGINEER FOREMAN	49343.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G2 Excavator 3.5 to 7.0 cy	10332.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G2 Finish Blade	11202.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G2 Plant Operator	41476.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G3 BH-Loader>3/4cy	20738.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G3a Cranes 45 t and under	20738.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G4 Dozer & Push Cat	48073.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G4 Grade Check	31070.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G4 Scraper	73091.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G5 Compactor w-blade	18272.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G6 Tractor	2066.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G7 Roller, Compactor	28604.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G8 Pump	2066.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Teamster G1 Hwy ED<6cy, Flatbed	20738.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Teamster G2 Hwy ED 6-8cy, Water<7	20738.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Teamster G3 ED 8-24cy, Water>7mg;	11202.8	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Eastern-26

SF - Eastern - 27	Laborer G2 General	119.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 27	OPERATING ENGINEER FOREMAN	13583.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 27	Operator G5 Compactor w-blade	119.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 27	Operator G4 Dozer & Push Cat	32095.7	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 27	Operator G4 Scraper	19915.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 27	Operator G2 Excavator 3.5 to 7.0 cy	17148.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 27	Operator G2 Finish Blade	119.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 27	Teamster G3 ED 8-24cy, Water>7mg;	34297.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-27					
SF - Eastern - 28	Carpenter Journeyman	2075.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 28	Electrician Journeyman	4150.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 28	Laborer Foreman	21371.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 28	Laborer G2 General	26140.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 28	Laborer G4 Clean-up	16603.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 28	Operator G3 BH-Loader>3/4cy	8610.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 28	Operator G6 Tractor	6535.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 28	Teamster G1 Hwy ED<6cy, Flatbed	21371.9	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-28					
SF - Eastern - 29	Laborer Foreman	1895.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Laborer G2 General	15469.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Laborer G3 Fence Builder	7259.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	OPERATING ENGINEER FOREMAN	5638.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G8a Skidsteer <Bobcat 743	107.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G2 Excavator 3.5 to 7.0 cy	2921.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G2 Finish Blade	2339.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G3 BH-Loader>3/4cy	2688.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G3 Gradall	2867.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G3 Loader >4cy	5355.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G4 Dozer & Push Cat	895.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G4 Grade Check	1160.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G4 Scraper	555.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G4 Trim Machine	819.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G5 Compactor w-blade	2093.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G6 Tractor	334.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G7 Roller, Compactor	340.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G8 Pump	603.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Teamster G1 Hwy ED<6cy, Flatbed	4321.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Teamster G2 Hwy ED 6-8cy, Water<7	2564.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Teamster G3 ED 8-24cy, Water>7mg;	9142.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Teamster G4 ED 25-65 Cy	2458.9	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-29					
SF - Eastern - 30	Carpenter Foreman	1187.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Carpenter Journeyman	8309.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Cement Mason Foreman	12.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Cement Mason Journeyman	36.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Iron Worker Foreman	1026.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Iron Worker Journeyman Rebar/Stru	6160.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Laborer Foreman	310.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Laborer G1 Vibrator, Green Cutter	63.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Laborer G2 Concrete Laborer	1675.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Laborer G2 General	6227.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Laborer G2 High Pressure Nozzlemar	13.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Laborer G3 Dumpman	171.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	OPERATOR - MECHANIC	137.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	OPERATING ENGINEER FOREMAN	2115.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G1a Cranes>100 t	7725.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G2 Excavator 3.5 to 7.0 cy	597.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G2 Finish Blade	134.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G2 Plant Operator	2476.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G2a Cranes 45 to 100 t	792.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G3 BH-Loader>3/4cy	1310.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G3 Loader >4cy	447.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G3a Cranes 45 t and under	1169.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G4 Dozer & Push Cat	1419.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G4 Grade Check	1482.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G4 Hvy Duty Mechanic	6.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G4 Scraper	808.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G4 Trim Machine	3.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G5 Compactor w-blade	269.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G5 Drilling & Boring Mach	1000.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G7 Roller, Compactor	171.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G6 Tractor	171.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G7 Oiler	1863.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Pile Driver Foreman	550.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Pile Driver Wharf and Dock	2200.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Teamster G1 Hwy ED<6cy, Flatbed	1553.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Teamster G2 Hwy ED 6-8cy, Water<7	1255.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Teamster G4 ED 25-65 Cy	11.8	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-30					
SF - Eastern - 31	Carpenter Apprentice	350.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Carpenter Foreman	7363.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Carpenter Journeyman	53266.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Cement Mason Foreman	1489.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Cement Mason Journeyman	5948.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Electrical Foreman	175.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Electrician Journeyman	600.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Iron Worker Foreman	8058.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Iron Worker Journeyman Rebar/Stru	49182.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Laborer Foreman	1203.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Laborer G1 Vibrator, Green Cutter	661.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Laborer G2 Concrete Laborer	10972.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Laborer G2 General	32075.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Laborer G3 Dumpman	33.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	OPERATING ENGINEER FOREMAN	8576.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	OPERATOR - MECHANIC	3524.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G1 Excavator >7CY	205.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G1a Cranes>100 t	4408.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G2 Excavator 3.5 to 7.0 cy	610.0	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 31	Operator G2 Finish Blade	215.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G3 BH-Loader>3/4cy	7727.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G2 Plant Operator	11973.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G2a Cranes 45 to 100 t	4283.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G3 Loader >4cy	4368.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G3a Cranes 45 t and under	4596.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G5 Concrete Pump	1380.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G4 Dozer & Push Cat	3925.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G4 Grade Check	7760.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G4 Hwy Duty Mechanic	132.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G5 Drilling & Boring Mach	200.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G5 Compactor w-blade	35.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G7 Oiler	8028.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Pile Driver Foreman	244.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Pile Driver Wharf and Dock	976.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Teamster G5 ED >65cy	1027.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Teamster G1 Hwy ED<6cy, Flatbed	8413.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Teamster G2 Hwy ED 6-8cy, Water<7	4262.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Teamster G3 Boom Truck	175.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Teamster G3 ED 8-24cy, Water>7mg;	17144.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Teamster G4 ED 25-65 Cy	610.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Teamster G4 Tractor, Lowbed/Trailer	401.9	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-31					
SF - Eastern - 32	Carpenter Apprentice	60.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Carpenter Foreman	980.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Carpenter Journeyman	3180.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Electrical Lineman	400.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Electrical Foreman	900.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Electrician Journeyman	2500.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Iron Worker Foreman	98.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Iron Worker Journeyman Rebar/Stru	508.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Iron Worker Rigger	518.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Laborer G2 Concrete Laborer	2481.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Laborer G2 General	1830.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Operator G1a Cranes>100 t	237.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Operator G3 BH-Loader>3/4cy	222.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Operator G2a Cranes 45 to 100 t	1018.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Operator G4a Boom truck<15 ton	616.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Operator G3a Cranes 45 t and under	616.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Pipefitter Apprentice	888.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Pipefitter Foreman	222.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Pipefitter Journeyman	2133.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Teamster G1 Hwy ED<6cy, Flatbed	734.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Teamster G4 Tractor, Lowbed/Trailer	222.2	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-32					
SF - Eastern - 33	Bullgang Foreman	800.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Bullgang Laborer	1600.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Carpenter	1892.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Carpenter Foreman	287.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Compactor Operator	648.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Grade Setter / Checker	324.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Grader Operator	324.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Dozer Operator	324.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Flagger	648.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Iron Worker	5000.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Flat Truck Driver	800.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	General Foreman	324.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	General Laborer	1772.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Hyd Crane Operator	2201.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Iron Worker Foreman	500.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Loader Operator	324.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Laborer G2 General	17040.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Mechanic / Welder	800.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Operating Engineer	5680.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Operator G2 Plant Operator	11360.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Operator G3 BH Loader	5680.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Operator G3a Crane	5680.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Operator G4 Grade Check	5680.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Operator G4 Heavy Duty Mechanic	5680.0	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-33					
SF - Eastern - 34	Bottomlander	257.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Bullgang Foreman	16.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Bullgang Laborer	33.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Carpenter Foreman	331.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Carpenter	1327.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Concrete Superintendent	3662.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Cost Engineer	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Crane Oiler	2248.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Dozer Operator	3090.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Electrical Superintendent	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	EMT	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Environmental Manager	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Equipment Superintendent	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Excavator Operator	423.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Field Engineer	5493.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Flat Truck Driver	16.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	General Foreman	1730.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	General Laborer	8847.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	General Superintendent	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Geotechnical Manager	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Grade Setter / Checker	3090.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Grader Operator	3090.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Hyd Crane Operator	1668.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Iron Worker	9556.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Iron Worker Foreman	1704.1	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 34	Lead Miner	728.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Loader Operator	1073.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Mechanic/Welder	1350.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Miner	6462.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Office Administrator	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Office Manager	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Project Engineer	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Project Manager	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	QC Manager	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	QC Technician	3662.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Runner	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Safety Engineer	14649.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Safety Manager	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Schedule Engineer	3662.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Shaft Crane Operator	2505.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Shift Engineers	14649.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Shifter	2413.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Survey Party Chief	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Survey Rod Man	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Toplander	1548.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Truck Driver	4009.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Tunnel Superintendent	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Tunnel Walkers	14649.6	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-34					
SF - Eastern - 35	Bottomlander	1283.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Bulgang Foreman	133.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Bullgang Laborer	800.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Concrete Pump Operator	307.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Crane Oiler	1869.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Electrician	1091.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Heavy Duty Mechanic Welder	133.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Hyd Crane Operator	654.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Iron Worker	4119.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Iron Worker Foreman	515.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Lead Miner	1379.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Master Mechanic	400.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Mechanic/Welder	1517.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Miner	9418.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Shaft Crane Operator	1923.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Shifter	1453.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Toplander	1790.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Truck Driver	1816.3	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-35					
SF - Eastern - 36	Bottomlander	7641.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Bullgang Foreman	6411.6	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Bullgang Laborer	21329.6	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Conveyor Belt Man	3916.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Crane Oiler	7641.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Dozer Operator	3833.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Electrician	9458.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Fanline Carrier Operator	4166.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Flat Truck Driver	2158.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Hyd Crane Operator	4650.0	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Lead Miner	4791.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Loader Operator	3833.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Man Transport Truck Operator	4253.2	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Master Mechanic	2088.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Mechanic/Welder	13700.0	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Miner	3650.0	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Operating Engineer	3833.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Operator G2 Plant Operator	3833.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Segment Carrier Operator	26666.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Shaft Crane Operator	7641.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Shifter	4791.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	TBM Operator	8500.0	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Toplander	7641.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Utility Truck Operator	4253.2	20	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-36					
SF - Eastern - 37	Bottomlander	865.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Bullgang Foreman	83.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Bullgang Laborer	500.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Crane Oiler	679.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Electrician	1545.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Forklift Operator	270.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Heavy Duty Mechanic Welder	83.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Hyd Crane Operator	798.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Lead Miner	865.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Master Mechanic	250.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Mechanic/Welder	1545.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Miner	3753.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Shaft Crane Operator	949.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Shifter	865.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Toplander	865.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Utility Truck Operator	145.0	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-37					
SF - Eastern - 38	Bottomlander	257.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Bullgang Foreman	16.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Bullgang Laborer	33.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Carpenter Foreman	331.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Carpenter	1327.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Compactor Operator	3090.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Concrete Superintendent	3662.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Cost Engineer	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Crane Oiler	2248.2	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 38	Dozer Operator	3090.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Electrical Superintendent	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	EMT	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Environmental Manager	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Equipment Superintendent	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Excavator Operator	423.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Field Engineer	5493.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Flat Truck Driver	16.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	General Foreman	1730.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	General Laborer	10577.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	General Superintendent	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Geotechnical Manager	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Grade Setter / Checker	3090.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Grader Operator	3090.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Hyd Crane Operator	1772.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Iron Worker	9556.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Iron Worker Foreman	1704.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Laborer G2 General	6399.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Lead Miner	833.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Loader Operator	1073.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Mechanic/Welder	683.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Miner	7296.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Office Administrator	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Office Manager	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Operating Engineer	2133.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Operator G2 Plant Operator	4266.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Operator G3 BH Loader	2133.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Operator G3a Crane	2133.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Operator G4 Grade Check	2133.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Operator G4 Heavy Duty Mechanic	2133.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Project Engineer	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Project Manager	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	QC Manager	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	QC Technician	3662.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Runner	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Safety Engineer	14649.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Safety Manager	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Schedule Engineer	2662.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Shaft Crane Operator	2505.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Shift Engineers	14649.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Shifter	2518.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Survey Party Chief	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Survey Rod Man	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Teamster G1 Hwy	2133.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Teamster G2 Hwy	2133.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Toplander	1548.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Truck Driver	4009.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Tunnel Superintendent	7324.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Tunnel Walkers	14649.6	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-38					
SF - Eastern - 39	Bottomlander	1283.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Bulgang Foreman	133.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Bulgang Laborer	800.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Concrete Pump Operator	307.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Crane Oiler	1869.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Electrician	1091.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Heavy Duty Mechanic Welder	133.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Hyd Crane Operator	550.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Iron Worker	4119.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Iron Worker Foreman	515.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Lead Miner	1275.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Master Mechanic	400.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Mechanic/Welder	1517.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Miner	8583.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Shaft Crane Operator	1923.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Shifter	1349.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Toplander	1790.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Truck Driver	1821.3	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-39					
SF - Eastern - 40	Bottomlander	7650.8	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Bulgang Foreman	6341.1	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Bulgang Laborer	21191.1	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Conveyor Belt Man	3925.0	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Crane Oiler	7650.8	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Dozer Operator	3841.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Electrician	9466.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Fanline Carrier Operator	4166.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Flat Truck Driver	2086.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Hyd Crane Operator	4506.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Lead Miner	4800.0	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Loader Operator	3841.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Man Transport Truck Operator	4254.4	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Master Mechanic	2083.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Mechanic/Welder	15720.0	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Miner	36440.0	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Operating Engineer	3841.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Operator G2 Plant Operator	3841.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Segment Carrier Operator	26691.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Shaft Crane Operator	7650.8	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Shifter	5395.8	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	TBM Operator	8516.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Toplander	7650.8	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Utility Truck Operator	4254.4	20	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-40					
SF - Eastern - 41	Bottomlander	865.8	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 41	Bullgang Foreman	83.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Bullgang Laborer	500.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Crane Oiler	679.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Electrician	1545.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Forklift Operator	270.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Heavy Duty Mechanic Welder	83.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Hyd Crane Operator	798.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Lead Miner	865.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Master Mechanic	250.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Mechanic/Welder	1545.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Miner	3753.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Shaft Crane Operator	949.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Shifter	270.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Toplander	865.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Utility Truck Operator	145.0	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-41					

SF - Eastern - 42	Bullgang Foreman	434.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Bullgang Laborer	868.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Carpenter	273.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Carpenter Foreman	68.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Compactor Operator	4621.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Concrete Superintendent	10683.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Cost Engineer	21366.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Dozer Operator	4402.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Electrical Superintendent	21366.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	EMT	21366.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Environmental Manager	21366.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Equipment Superintendent	21366.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Field Engineer	16025.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Flagger	438.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Flat Truck Driver	434.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	General Foreman	219.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	General Laborer	575.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	General Superintendent	21366.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Geotechnical Manager	21366.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Grade Setter / Checker	4402.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Grader Operator	4402.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Hyd Crane Operator	937.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Laborer G2 General	11553.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Loader Operator	219.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Mechanic/Welder	434.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Office Administrator	21366.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Office Manager	21366.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Operating Engineer	3851.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Operator G2 Plant Operator	7702.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Operator G3 BH Loader	3851.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Operator G3a Crane	3851.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Operator G4 Grade Check	3851.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Operator G4 Heavy Duty Mechanic	3851.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Project Engineer	21366.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Project Manager	21366.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	QC Manager	21366.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	QC Technician	10683.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Runner	21366.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Safety Engineer	42733.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Safety Manager	21366.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Schedule Engineer	10683.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Shift Engineers	42733.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Survey Party Chief	21366.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Survey Rod Man	21366.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Teamster G1 Hwywy	3851.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Teamster G2 Hwywy	3851.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Truck Driver	4182.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Tunnel Superintendent	21366.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Tunnel Walkers	42733.7	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-42					

SF - Eastern - 43	Bottomlander	268.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Bullgang Foreman	17.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Bullgang Laborer	34.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Carpenter Foreman	421.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Carpenter	2634.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Compactor Operator	264.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Crane Oiler	2017.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Dozer Operator	132.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Excavator Operator	440.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Flagger	264.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Flat Truck Driver	17.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	General Foreman	1849.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	General Laborer	9951.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Grade Setter / Checker	132.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Grader Operator	132.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Hyd Crane Operator	1734.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Iron Worker	9654.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Iron Worker Foreman	15358.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Lead Miner	783.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Loader Operator	1249.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Mechanic/Welder	1321.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Miner	6923.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Shaft Crane Operator	2285.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Shifter	1759.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Toplander	1455.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Truck Driver	1408.8	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-43					

SF - Eastern - 44	Bottomlander	800.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Concrete Pump Operator	272.8	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 44	Crane Oiler	1175.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Electrician	129.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Iron Worker	3470.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Iron Worker Foreman	433.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Lead Miner	798.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Mechanic Welder	525.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Miner	4702.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Shaft Crane Operator	1232.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Shifter	875.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Toplander	1232.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Truck Driver	352.0	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-44					
SF - Eastern - 45	Compactor Operator	3293.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	Dozer Operator	4742.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	General Foreman	0.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	Grade Setter / Checker	4742.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	Grader 16H - 16' Blade	0.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	Grader Operator	8034.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	Loader Operator	1449.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	Operator G4 Grade Check	0.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	Scraper Operator	0.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	Truck Driver	6586.9	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-45					
SF - Eastern - 46	Bottomlander	268.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Bullgang Foreman	104.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Bullgang Laborer	208.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Carpenter Foreman	408.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Carpenter	1859.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Compactor Operator	3816.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Crane Oiler	2017.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Dozer Operator	3816.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Excavator Operator	440.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Flat Truck Driver	104.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	General Foreman	1716.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	General Laborer	8918.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Grade Setter / Checker	3816.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Grader Operator	3816.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Hyd Crane Operator	1934.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Iron Worker	9107.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Iron Worker Foreman	1605.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Lead Miner	783.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Loader Operator	1116.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Mechanic/Welder	1408.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Miner	6923.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Shaft Crane Operator	2285.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Shifter	2369.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Toplander	1455.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Truck Driver	4938.9	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-46					
SF - Eastern - 47	Bottomlander	800.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Bullgang Foreman	173.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Bullgang Laborer	1042.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Concrete Pump Operator	272.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Crane Oiler	1349.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Electrician	303.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Heavy Duty Mechanic Welder	173.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Hyd Crane Operator	173.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Iron Worker	3470.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Iron Worker Foreman	433.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Lead Miner	798.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Master Mechanic	521.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Mechanic/Welder	699.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Miner	4702.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Shaft Crane Operator	1406.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Shifter	875.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Toplander	1232.3	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-47					
SF - Eastern - 48	Bottomlander	77169.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Bullgang Foreman	56752.5	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Bullgang Laborer	191272.5	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Conveyor Belt Man	42962.5	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Crane Oiler	77169.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Dozer Operator	37679.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Electrician	83948.2	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Fanline Carrier Operator	38108.6	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Flat Truck Driver	17868.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Hyd Crane Operator	36714.5	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Master Mechanic	19054.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Lead Miner	44645.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Loader Operator	37679.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Mechanic/Welder	120871.2	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Miner	331148.2	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Operator G2 Plant Operator	37679.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Operating Engineer	37679.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Segment Carrier Operator	266763.1	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Shaft Crane Operator	77169.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Shifter	44645.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	TBM Operator	78563.8	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Toplander	77169.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Truck Driver	9286.1	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Utility Truck Operator	38883.8	20	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-48					
SF - Eastern - 49	Bottomlander	1807.7	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 49	Bullgang Foreman	108.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Bullgang Laborer	1628.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Crane Oiler	884.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Electrician	2692.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Flat Truck Driver	0.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Forklift Operator	1031.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Heavy Duty Mechanic Welder	108.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Hyd Crane Operator	993.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Lead Miner	1807.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Master Mechanic	325.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Mechanic/Welder	2692.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Miner	8968.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Shaft Crane Operator	1916.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Shifter	1807.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Toplander	1807.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Utility Truck Operator	868.6	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-49					
SF - Eastern - 50	Carpenter Apprentice	468.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 50	Carpenter Foreman	468.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 50	Electrical Foreman	234.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 50	Electrician Journeyman	468.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 50	Iron Worker Journeyman Rebar/Stru	936.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 50	Laborer G2 General	936.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 50	Millwright	468.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 50	Operator G2a Cranes 45 to 100 t	468.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 50	Teamster G3 Boom Truck	234.0	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-50					
SF - Eastern - 51	Carpenter Apprentice	400.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 51	Carpenter Foreman	400.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 51	Electrical Foreman	200.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 51	Electrician Journeyman	400.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 51	Iron Worker Journeyman Rebar/Stru	800.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 51	Laborer G2 General	800.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 51	Millwright	400.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 51	Operator G2a Cranes 45 to 100 t	400.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 51	Teamster G3 Boom Truck	200.0	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-51					
SF - Eastern - 52	Laborer G4 Clean-up	39389.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 52	OPERATING ENGINEER FOREMAN	19694.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 52	Operator G2 Micro Tunnel	2883.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 52	Operator G2 Plant Operator	16811.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 52	Operator G3 Loader >4cy	39389.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 52	Operator G4 Loader <4.1cy	5766.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 52	Operator G5 Concrete Pump	14428.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 52	Operator G7 Oiler	5265.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 52	Operator G8a Skidsteer <Bobcat 743	14428.8	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-52					
SF - Eastern - 53	Laborer G2 General	404.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 53	OPERATING ENGINEER FOREMAN	101.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 53	Operator G3 BH-Loader>3/4cy	101.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 53	Operator G4 Grade Check	101.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 53	Operator G5 Asphalt Roller	202.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 53	Operator G5 Paver	101.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 53	Teamster G2 Hwy ED 6-8cy, Water<7	50.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-53					
SF - Eastern - 54	Laborer G2 General	404.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 54	OPERATING ENGINEER FOREMAN	101.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 54	Operator G3 BH-Loader>3/4cy	101.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 54	Operator G4 Grade Check	101.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 54	Operator G5 Asphalt Roller	202.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 54	Operator G5 Paver	101.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 54	Teamster G2 Hwy ED 6-8cy, Water<7	50.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-54					
SF - Eastern - 55	Laborer G2 Concrete Laborer	600.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Laborer G2 General	280.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Laborer G3 Flagman	880.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	OPERATING ENGINEER FOREMAN	720.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Operator G2 Excavator 3.5 to 7.0 cy	1200.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Operator G2 Finish Blade	210.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Operator G3 Loader >4cy	40.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Operator G4 Dozer & Push Cat	3180.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Operator G4 Scraper	2000.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Operator G6 Tractor	640.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Teamster G2 Hwy ED 6-8cy, Water<7	4600.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Teamster G4 ED 25-65 Cy	200.0	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-55					

Marine Inventory for Southern Complex on Byron Tract - Eastern
Option 10

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Southern Complex on Byron Tract - Eastern
Option 10

Code	# day	Locomotive Type	From Depot Site	Delivery Depot	Rail Cars	Rail Cars/Day	Main Railroad	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
SF - Eastern - 5	21	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 6	184	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 7	264	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 9	245	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 10	91	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 11	311	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 12	799	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 13	964	Concrete and Bentonite	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 14	706	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 15B	400	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 16	179	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 17	37	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 18	34	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 19	383	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 20	826	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 22	269	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 23	161	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 24	181	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 26	1355	Cement, Aggregate, Sand, Flyash, B	Stockton	Southern Complex	2398	1.8	UPRR						
SF - Eastern - 27	1749	Soil Material	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 29	274	Riprap and Soil Material	Stockton	Southern Complex	27495	100.5	UPRR						
SF - Eastern - 30	186	Cement, Aggregate, Sand, Flyash, R	Stockton	Southern Complex	393	2.1	UPRR						
SF - Eastern - 31	558	Cement, Aggregate, Sand, Flyash, B	Stockton	Southern Complex	1538	2.8	UPRR						
SF - Eastern - 34	366	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 35	88	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 36	361	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 37	29	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 38	989	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 39	290	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 40	391	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 41	35	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 43	239	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 46	443	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 48	2393	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						

Helicopter Inventory for Southern Complex on Byron Tract - Central Option 10

For 36 new transmission towers along 8.3 miles of new 230 kV line

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
SF - Central 5			2		

Earthmoving/Paving Assumptions for Southern Complex on Byron Tract - Eastern
Option 10

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
SF - Eastern - 1		207									
SF - Eastern - 2		323									
SF - Eastern - 3		253		90891	359	238663	944				
SF - Eastern - 4		227		48121	212	100678	443			1403505	6179
SF - Eastern - 5	37.4	21	1.7			17550	819				
SF - Eastern - 7		264			0		0			296524.8	1122
SF - Eastern - 9		245		1170	5	5850	24				
SF - Eastern - 10		91				5206.5	57				
SF - Eastern - 11		311		83352	268	34199.7	110				
SF - Eastern - 12		799		292384.3	366						
SF - Eastern - 13		964		84986.5	88	5607.8	6				
SF - Eastern - 14		706		136890	194		0				
SF - Eastern - 15B		400		23947	60	27405.5	69				
SF - Eastern - 16		179				5284.5	30				
SF - Eastern - 17		37				795.6	21				
SF - Eastern - 18		34				1768	53				
SF - Eastern - 19		383				19620	51			262218.1	685
SF - Eastern - 20		826					0				
SF - Eastern - 22		269					0				
SF - Eastern - 23		161		150974	939	185339	1153			126720	788
SF - Eastern - 24	921	181	5.1				0				
SF - Eastern - 25		445		2799678	6291	70220	158				
SF - Eastern - 26		1355				9774800	7214				
SF - Eastern - 27		1749									
SF - Eastern - 28		2139									
SF - Eastern - 29	3	274	0.01		0	344210	1258				
SF - Eastern - 30		186		61000	328	102835	554				
SF - Eastern - 31		558		154044	276	2000	4				
SF - Eastern - 32		135									
SF - Eastern - 33		256									
SF - Eastern - 34		366		117960.2	323	135982	372				
SF - Eastern - 35		88									
SF - Eastern - 36		361									
SF - Eastern - 37		29									
SF - Eastern - 38		989		117960.2	119	135982	137				
SF - Eastern - 39		290									
SF - Eastern - 40		391									
SF - Eastern - 42	12.6	2599	0.00			184070.9	71				
SF - Eastern - 43	7.6	239	0.03	103669.37	435						
SF - Eastern - 44		91									
SF - Eastern - 45		165		233336.2	1414						
SF - Eastern - 46		443		88414	200	167933	379				
SF - Eastern - 48		2393		6589.2	3						
SF - Eastern - 49		70									
SF - Eastern - 50		40									
SF - Eastern - 51		39									
SF - Eastern - 53		11								431730	40295
SF - Eastern - 54		10								431730	43173
SF - Eastern - 55	376	211	1.8			983488	4667				

**Demolition Assumptions for Southern Complex on Byron Tract - Eastern
Option 10**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Southern Complex West of Byron Highway - South Delta Conv - Central & Eastern**Options 9A, 9B, 10A, 10B****THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 2****NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION**

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Mobilization - Gravel Bedding, Formwork, Rebar, Concrete for Slabs	SDC - Central & Eastern - 1	6/25/2030	8/22/2030	53	5	10
Roads, Utilities, Construction Office, Shops, Other Structures	SDC - Central & Eastern - 2	6/25/2030	10/22/2030	90	5	10
Utility, Facility, and Plant Operations	SDC - Central & Eastern - 3	5/8/2030	4/24/2037	1815	5	10
Tunnel Outlet Excavation & Cofferdam	SDC - Central & Eastern - 4	5/8/2030	5/6/2031	259	5	10
South Delta Tunnel Outlet Structure Excavation, Sheet Piles, Forms	SDC - Central & Eastern - 5	5/8/2030	4/29/2031	252	5	10
Reception Shaft - East: Slurry Wall and Guide Wall	SDC - Central & Eastern - 6	5/7/2031	9/5/2031	88	5	10
Reception Shaft - East: Tremie Seal	SDC - Central & Eastern - 7	9/8/2031	9/19/2031	12	7	24
Reception Shaft - East: Dewater Shaft	SDC - Central & Eastern - 8	9/22/2031	9/26/2031	5	5	10
Reception Shaft - East: Tunnel Cradle	SDC - Central & Eastern - 9	9/29/2031	10/6/2031	5	5	10
Reception Shaft - East: Slurry Wall Breakout	SDC - Central & Eastern - 10	10/7/2031	10/31/2031	19	5	10
Reception Shaft - East: Assemble Shaft with Concrete	SDC - Central & Eastern - 11	10/27/2031	1/6/2032	52	5	10
Reception Shaft - West: Slurry Wall and Guide Wall	SDC - Central & Eastern - 12	7/10/2031	2/5/2032	151	5	10
Reception Shaft - West: Tremie Seal	SDC - Central & Eastern - 13	2/6/2032	2/19/2032	13	7	24
Reception Shaft - West: Dewater Shaft	SDC - Central & Eastern - 14	2/20/2032	2/26/2032	5	5	10
Reception Shaft - West: Tunnel Cradle	SDC - Central & Eastern - 15	2/27/2032	3/5/2032	6	5	10
Reception Shaft - West: Slurry Wall Breakout	SDC - Central & Eastern - 16	3/8/2032	4/1/2032	19	5	10
Reception Shaft - West: Assemble Shaft with Concrete	SDC - Central & Eastern - 17	4/2/2032	6/14/2032	54	5	10
Calif Aqueduct Div Channel Excavation and Earthwork	SDC - Central & Eastern - 18	5/8/2030	7/31/2031	322	5	10
Calif Aqueduct Control Structure: Cofferdam	SDC - Central & Eastern - 19	2/3/2031	1/1/2032	335	5	10
Calif Aqueduct Control Structure: Construct Concrete Slabs and Fram	SDC - Central & Eastern - 20	1/8/2032	12/24/2032	250	5	10
Calif Aqueduct Control Structure: Remove Cofferdam	SDC - Central & Eastern - 21	1/25/2033	4/15/2033	59	5	10
Calif Aqueduct Control Structure: Construct Walls	SDC - Central & Eastern - 22	5/25/2032	9/27/2032	90	5	10
Calif Aqueduct Control Structure: Weir and Bridge	SDC - Central & Eastern - 23	9/28/2032	12/3/2032	49	5	10
Calif Aqueduct Control Structure: Gates and Stoplogs	SDC - Central & Eastern - 24	2/3/2033	4/21/2033	56	5	10
South Delta Tunnel Outlet: Excavation	SDC - Central & Eastern - 25	6/1/2034	9/6/2035	331	5	10
South Delta Tunnel Outlet Structure: Construct Slabs and Walls	SDC - Central & Eastern - 26	8/6/2035	8/18/2036	271	5	10
South Delta Tunnel Outlet Building: Construct Slabs and Walls	SDC - Central & Eastern - 27	2/20/2036	1/30/2037	245	5	10
South Delta Tunnel Outlet Building: Gates and Stoplogs	SDC - Central & Eastern - 28	5/12/02036	2/25/2037	208	5	10
South Delta Tunnel Outlet Building: Remove Cofferdam and Construc	SDC - Central & Eastern - 29	8/4/2036	3/31/2037	172	5	10
Southern Complex West of Byron Highway: Site Restoration	SDC - Central & Eastern - 30	3/12/2037	6/9/2037	66	5	10
Jones PP Connector: Mobilization - Gravel Bedding, Formwork, Rebar, Concrete	SDC - Central & Eastern - 31	5/7/2031	1/25/2032	190	5	10
Jones PP Connector: Raise Shaft	SDC - Central & Eastern - 32	7/1/2031	10/20/2031	80	5	10
Jones PP Connector: Slurry Wall and Guide Wall	SDC - Central & Eastern - 33	7/2/2031	11/17/2031	99	5	10
Jones PP Connector: Excavate Shaft	SDC - Central & Eastern - 34	10/2/2031	1/15/2032	76	5	10
Jones PP Connector Reception Shaft: Tremie Sale	SDC - Central & Eastern - 35	1/16/2032	2/12/2032	28	7	24
Jones PP Connector Reception Shaft: Dewater Shaft	SDC - Central & Eastern - 36	2/13/2032	2/19/2032	7	7	24
Jones PP Connector Reception Shaft: Tunnel Cradle	SDC - Central & Eastern - 37	2/20/2032	5/11/2032	59	5	10
Jones PP Connector: TBM Assembly including Shaft Utilities	SDC - Central & Eastern - 38	4/19/2032	1/18/2033	193	5	10
Jones PP Connector: Tunneling Operations including Equipment Deliv	SDC - Central & Eastern - 39	4/14/2032	6/29/2033	379	6	20
Jones PP Connector: Remove TBM and Tunnel Equipment	SDC - Central & Eastern - 40	6/30/2033	12/25/2034	389	5	10
Jones PP Connector: Mangagement, Engineering, & Field Labor	SDC - Central & Eastern - 41	5/7/2031	12/25/2034	949	5	10
Jones PP Connector: Site Restoration	SDC - Central & Eastern - 42	1/27/2037	5/4/2037	70	5	10
Delta-Mendota Control Structure	SDC - Central & Eastern - 43	3/23/2034	6/17/2036	854	5	10

Total Site Acres**150**

APPENDIX G – ATTACHMENT 3

Project Design Capacity 3,000 cfs

FINAL DRAFT

Construction Schedule for Intake 5 Haul Rd - Central & Eastern Access Road

All Options

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	I5 HRd-C&E Access -1	4/9/2027	4/26/2027	14	5	10
Embankment	I5 HRd-C&E Access -2	4/27/2027	5/3/2027	5	5	10
Culvert Pipe	I5 HRd-C&E Access -3	5/4/2027	5/5/2027	3	3	10
Subdrain System	I5 HRd-C&E Access -4	5/6/2027	5/25/2027	14	5	10
Road Base	I5 HRd-C&E Access -5	5/26/2027	6/16/2027	16	5	10
Asphalt Paving	I5 HRd-C&E Access -6	6/17/2027	6/23/2027	5	5	10
KRail and Signs	I5 HRd-C&E Access -7	6/24/2027	6/24/2027	1	1	10
Intermediate Overlay	I5 HRd-C&E Access -8	5/15/2030	5/17/2030	3	3	10
Final Overlay	I5 HRd-C&E Access -9	7/1/2037	7/6/2037	5	5	10

Acres

1

Construction Schedule for Intake Haul Rd - Central & Eastern Access Road

Options 1, 2, 7, 8, 9, 10

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	IHRd-C&E Access -1	4/27/2026	7/20/2026	61	5	10
Embankment	IHRd-C&E Access -2	7/21/2026	9/24/2026	48	5	10
Culvert Pipe	IHRd-C&E Access -3	9/25/2026	10/1/2026	5	5	10
Subdrain System	IHRd-C&E Access -4	10/2/2026	12/17/2026	55	5	10
Road Base	IHRd-C&E Access -5	12/18/2026	2/25/2027	50	5	10
Asphalt Paving	IHRd-C&E Access -6	2/26/2027	4/7/2027	30	5	10
KRail and Signs	IHRd-C&E Access -7	4/8/2027	4/8/2027	1	1	10
Intermediate Overlay	IHRd-C&E Access -8	4/30/2030	5/10/2030	9	5	10
Final Overlay	IHRd-C&E Access -9	6/16/2037	7/29/2037	32	5	10
Acres		10.4				

NOTE: Access road between Intakes 2 and 3 are included in Intake 2 tables

Construction Schedule for Lambert Rd - Central & Eastern Access Road

For Intake Access Road Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	LRd-C&E Access -1	2/26/2027	3/2/2027	5	5	10
Culvert Pipe	LRd-C&E Access -2	3/3/2027	3/3/2027	1	1	10
Subdrain System	LRd-C&E Access -3	3/4/2027	3/18/2027	11	5	10
Road Base	LRd-C&E Access -4	3/19/2027	3/31/2027	10	5	10
Asphalt Paving	LRd-C&E Access -5	4/1/2027	4/6/2027	5	5	10
KRail and Signs	LRd-C&E Access -6	4/7/2027	4/20/2027	10	5	10
Intermediate Overlay	LRd-C&E Access -7	5/30/2030	6/7/2030	6	5	10
Final Overlay	LRd-C&E Access -8	7/29/2037	8/7/2037	8	5	10

Acres **12.5**

Construction Schedule for Hood-Franklin Park and Ride

For Intake Employees Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	HFPR -1	4/27/2026	7/31/2026	69	5	10
Embankment	HFPR -2	8/3/2026	8/13/2026	9	2	10
Culvert Pipe	HFPR -3	8/14/2026	8/19/2026	5	3	10
Subdrain System	HFPR -4	8/20/2026	8/25/2026	5	5	10
Road Base	HFPR -5	8/26/2026	10/6/2026	30	5	10
Asphalt Paving	HFPR -6	10/7/2026	11/23/2026	27	5	10
Electrical, Striping, and K-Rail Installation	HFPR -7	11/25/2026	11/27/2026	3	3	10

Acres

4.1

Construction Schedule for Hood-Franklin Road Overlay - Central & Eastern Access Road
 For Intake Access Employee Van - Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B
 THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	HFRd-C&E Overlay -1	11/24/2026	11/30/2026	5	5	10
Intermediate Overlay	HFRd-C&E Overlay -2	4/22/2030	4/29/2030	5	5	10
Final Overlay	HFRd-C&E Overlay -3	6/8/2037	6/16/2037	7	5	10
Acres	7.5					

Construction Schedule for SR160 Overlay - Central & Eastern Access Road
Intakes Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Initial Overlay	SR160 C&E Overlay -1	6/24/2027	7/14/2027	15	5	10
Intermediate Overlay	SR160 C&E Overlay -2	7/23/2030	8/12/2030	20	5	10
Final Overlay	SR160 C&E Overlay -3	8/26/2037	9/16/2037	20	5	10

Construction Schedule for Intake 5_3000 cfs_Central & Eastern

Options 1B, 2B, 5B, 6B, 9B, 10B - Tee Screens

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Development of Initial Intake Box Culverts & Gantry Crane	Intake 5 - Central & Eastern - 1	1/1/2026	3/29/2026	64	5	10
Initial Temporary Buildings	Intake 5 - Central & Eastern - 2	4/2/2029	3/3/2030	240	5	10
Phase 1 Sitework	Intake 5 - Central & Eastern - 3	3/4/2030	2/20/2031	253	5	10
Operations of Temporary Buildings	Intake 5 - Central & Eastern - 4	3/4/2030	8/9/2035	1418	5	10
Phase 2 Sitework - Foundations	Intake 5 - Central & Eastern - 5	10/25/2029	7/27/2032	920	5	10
Initial Roads and Move SR 160	Intake 5 - Central & Eastern - 6	10/3/2030	11/17/2030	33	5	10
Install Cofferdam	Intake 5 - Central & Eastern - 7	11/17/2030	9/8/2031	211	5	10
Construct Reception Shaft	Intake 5 - Central & Eastern - 8	2/27/2031	10/23/2031	164	5	10
Place Tremie Seal in Reception Shaft	Intake 5 - Central & Eastern - 9	10/26/2031	10/28/2031	3	5	10
Dewater Reception Shaft	Intake 5 - Central & Eastern - 10	10/29/2031	11/4/2031	5	2	24
Assemble Reception Shaft	Intake 5 - Central & Eastern - 11	11/5/2031	3/1/2032	84	5	10
Intake Structure within Cofferdam	Intake 5 - Central & Eastern - 12	7/24/2031	12/9/2033	360	5	10
Piles and Concrete in Sedimentation Basin	Intake 5 - Central & Eastern - 13	11/7/2031	10/20/2032	249	5	10
Intake Connections and Gates	Intake 5 - Central & Eastern - 14	1/10/2032	12/7/2033	597	5	10
Sedimentation Basin Mechanical and Electrical	Intake 5 - Central & Eastern - 15	10/6/2032	10/19/2033	270	5	10
Finish Box Culverts	Intake 5 - Central & Eastern - 16	10/27/2032	11/9/2032	9	5	10
Install Fish Screen, Appurtenant Facilities, Log Boom, and Rip Rap	Intake 5 - Central & Eastern - 17	5/25/2033	9/15/2034	342	5	10
Move SR 160 to Final Location	Intake 5 - Central & Eastern - 18	6/20/2033	8/12/2033	39	5	10
Basin Embankments, Gates, Buildings, and Substation	Intake 5 - Central & Eastern - 19	8/12/2033	7/31/2034	253	5	10
Remove Cofferdam - Phase 1	Intake 5 - Central & Eastern - 20	1/24/2034	5/29/2034	91	5	10
Remove Cofferdam - Phase 2	Intake 5 - Central & Eastern - 21	11/1/2035	1/8/2036	51	5	10
Finish Site Work, Sedimentation Basin Curtain, and Fencing	Intake 5 - Central & Eastern - 22	6/20/2034	4/27/2035	223	5	10
Finish Intake Exteriors	Intake 5 - Central & Eastern - 23	10/26/2034	8/9/2035	205	5	10
Site Restoration	Intake 5 - Central & Eastern - 24	12/21/2034	3/23/2035	67	5	10
Finish Sedimentation Basin	Intake 5 - Central & Eastern - 25	3/1/2035	5/10/2035	51	5	10

Total Site Acres

240

Construction Schedule for Lambert Rd Conc Batch Plant - Central & Eastern

Options 5A, 5B, 6A, 6B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 3

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	LR CBP-C&E -1	10/7/2026	10/14/2026	6	5	10
Embankment	LR CBP-C&E -2	10/15/2026	10/15/2026	1	1	10
Culvert Pipe	LR CBP-C&E -3	10/16/2026	10/16/2026	1	1	10
Subdrain System	LR CBP-C&E -4	10/19/2026	10/19/2026	1	1	10
Road Base	LR CBP-C&E -5	10/20/2026	10/22/2026	3	3	10
Asphalt Paving	LR CBP-C&E -6	10/23/2026	10/27/2026	5	5	10
Erect Batch Plant	LR CBP-C&E -7	6/25/2029	7/20/2029	19	5	10
Batch Plant Operations - Phase 1 - Concrete for Shafts	LR CBP-C&E -8	3/17/2027	3/14/2031	1041	5	10
Batch Plant Operations - Phase 2 - Concrete for Intake 5	LR CBP-C&E -9	4/2/2029	10/25/2034	1372	5	10

Acres

Construction Schedule for Dierssen Rd - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	DRd-C&E Access -1	1/18/2027	1/21/2027	4	4	10
Embankment	DRd-C&E Access -2	1/22/2027	1/26/2027	5	5	10
Culvert Pipe	DRd-C&E Access -3	1/27/2027	1/27/2027	1	1	10
Subdrain System	DRd-C&E Access -4	1/28/2027	2/9/2027	9	5	10
Road Base	DRd-C&E Access -5	2/10/2027	2/18/2027	7	5	10
Asphalt Paving	DRd-C&E Access -6	2/19/2027	2/22/2027	4	4	10
KRail and Signs	DRd-C&E Access -7	2/23/2027	3/16/2027	14	5	10
Intermediate Overlay	DRd-C&E Access -8	5/22/2030	5/24/2030	3	3	10
Final Overlay	DRd-C&E Access -9	7/21/2037	7/24/2037	4	4	10

Acres

7.2

Construction Schedule for Franklin Blvd RR - Central & Eastern Access Road
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Sub-Ballast	FB RR-C&E Access -1	6/10/2026	6/25/2026	12	5	10
Ballast	FB RR-C&E Access -2	6/26/2026	7/14/2026	15	5	10
Track	FB RR-C&E Access -3	7/15/2026	8/27/2026	32	5	10

Construction Schedule for Franklin Blvd - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	FB-C&E Access -1	11/24/2026	11/30/2026	5	5	10
Embankment	FB-C&E Access -2	12/1/2026	12/16/2026	12	5	10
Culvert Pipe	FB-C&E Access -3	12/17/2026	12/17/2026	1	1	10
Subdrain System	FB-C&E Access -4	12/18/2026	12/28/2026	9	5	10
Road Base	FB-C&E Access -5	12/29/2026	1/15/2027	14	5	10
Asphalt Paving	FB-C&E Access -6	1/18/2027	1/21/2027	4	4	10
KRail and Signs	FB-C&E Access -7	1/22/2027	1/22/2027	1	1	10
Intermediate Overlay	FB-C&E Access -8	5/27/2030	5/29/2030	3	3	10
Final Overlay	FB-C&E Access -9	7/24/2037	7/29/2037	4	4	10

Acres

5

Construction Schedule for Twin Cities Ring Levee - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Construct Ring Levee	TCC RL-C&E -1	2/28/2028	6/19/2028	96	5	10

Acres44.8

Construction Schedule for Twin Cities Rd - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	TC Rd-C&E Access -1	1/5/2026	1/7/2026	3	3	10
Culvert Pipe & Subdrain System	TC Rd-C&E Access -2	1/8/2026	1/19/2026	10	5	10
Road Base	TC Rd-C&E Access -3	1/20/2026	2/9/2026	15	5	10
Asphalt Paving & KRail and Signs	TC Rd-C&E Access -4	2/10/2026	2/16/2026	5	5	10
Intermediate Overlay	TC Rd-C&E Access -5	6/10/2030	6/12/2030	3	3	10
Final Overlay	TC Rd-C&E Access -6	9/30/2037	10/5/2037	5	5	10

Acres

3.9

**Construction Schedule for Twin Cities Complex - Eastern Tunnel Shaft
Options 6A, 6B**

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Mobilize, Excavate, & Mobilize	TCC-Eastern - 1	2/2/2026	6/5/2026	90	5	10
Embankment	TCC-Eastern - 2	3/12/2026	4/21/2026	29	5	10
Subdrain	TCC-Eastern - 3	4/22/2026	6/9/2026	34	5	10
Management, Engineering, & Field Labor - Reach 2	TCC-Eastern - 4	3/17/2027	3/26/2036	1217	3	10
Clear and Grub	TCC-Eastern - 5	5/12/2027	7/12/2027	44	5	10
Excavation, Grading, & Compaction - Reach 2	TCC-Eastern - 6	5/12/2027	4/24/2028	204	5	10
Raise Shaft Pad for Reach 2	TCC-Eastern - 7	9/7/2027	4/3/2028	149	5	10
Set Strips, & Concrete for Reach 2	TCC-Eastern - 8	8/16/2027	11/12/2027	65	5	10
Place Guide Walls Concrete for Reach 2	TCC-Eastern - 9	4/3/2028	6/20/2028	57	5	10
Slurry Wall, Place Concrete & Rebar, Slurry Wall, Remove Guide Wall, & add Top Beam for Reach 2	TCC-Eastern - 10	4/27/2028	8/17/2028	81	5	10
Place Guide Walls Concrete for Reach 1	TCC-Eastern - 11	8/8/2028	8/30/2028	17	5	10
Slurry Wall, Place Concrete & Rebar, Slurry Wall, Remove Guide Wall, & add Top Beam for Reach 1	TCC-Eastern - 12	8/29/2028	1/3/2029	92	5	10
Excavate Shaft for Reach 2	TCC-Eastern - 13	1/4/2029	4/4/2029	65	5	10
Management, Engineering, & Field Labor - Reach 1	TCC-Eastern - 14	11/21/2029	7/20/2034	1215	5	10
Shaft Setup for Reach 1	TCC-Eastern - 15	11/16/2029	12/10/2029	18	5	10
Excavate Shaft for Reach 1	TCC-Eastern - 16	4/4/2029	7/3/2029	65	5	10
Place Tremie Seal Rebar, Cooling Pipes, & Seal for Reaches 1 & 2	TCC-Eastern - 17	6/19/2029	7/31/2029	43	7	24
Dewater Shaft for Reaches 1 & 2	TCC-Eastern - 18	7/17/2029	8/7/2029	21	7	24
Place TBM Cradle Rebar and Cradle Pour for Reaches 1 & 2	TCC-Eastern - 19	7/24/2029	8/20/2029	20	5	10
Breakout Slurry Wall for TBM for Reaches 1 & 2	TCC-Eastern - 20	8/6/2029	9/17/2029	41	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner Reaches 1 & 2	TCC-Eastern - 21	9/3/2029	1/9/2030	93	5	10
Erect Gantry Crane for Reaches 1 & 2	TCC-Eastern - 22	11/28/2029	12/19/2029	16	5	10
TBM Assembly including Shaft Utilities for Reach 2	TCC-Eastern - 23	12/10/2029	6/6/2030	105	5	10
Tunneling Operations including Equipment Delivery for Reach 2	TCC-Eastern - 24	6/6/2030	12/4/2036	2064	6	20
TBM Assembly including Shaft Utilities for Reach 1	TCC-Eastern - 25	6/14/2031	10/3/2031	80	5	10
Tunneling Operations including Equipment Delivery for Reach 1	TCC-Eastern - 26	7/9/2031	5/5/2034	736	6	20
Remove TBM and Tunnel Equipment for Reach 1	TCC-Eastern - 27	5/5/2034	7/28/2034	61	5	10
Remove TBM and Tunnel Equipment for Reach 2	TCC-Eastern - 28	1/22/2036	3/26/2037	306	5	10
Site Restoration	TCC-Eastern - 29	3/26/2036	9/30/2036	135	5	10

Total Site Acres

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Offroad Equipment (Fossil Fuel) Inventory for Twin Cities Complex - Eastern Tunnel Shaft
Options 6A, 6B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
TCC-Eastern - 1	Air Compressor 185 CFM	Air Compressor	298.66	90	3.3	Diesel Tier 4	49	0.48		
TCC-Eastern - 1	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	149.34	90	1.7	Diesel or Hybrid	75	0.31		
TCC-Eastern - 1	Boom Truck, 12.5 Tn Boom	Crane	149.34	90	1.7	Diesel or Hybrid	100	0.29		
TCC-Eastern - 1	CAT D6LGPDozer w winch	Crawler Tractor	364.43	90	4.0	Diesel or Hybrid	179	0.43		
TCC-Eastern - 1	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	182.21	90	2.0	Diesel	384	0.38		
TCC-Eastern - 1	Hydraulic 9 Ton Crane	Crane	400	90	4.4	Diesel	85	0.29		
TCC-Eastern - 1	Hydraulic 40 Ton Crane	Crane	400	90	4.4	Diesel	300	0.29		
TCC-Eastern - 1	CAT Forklift 5,500 LB	Aerial Lift	400	90	4.4	Diesel	63	0.31		
TCC-Eastern - 2	CAT D6LGPDozer w winch	Crawler Tractor	232.83	29	8.0	Diesel or Hybrid	179	0.43		
TCC-Eastern - 2	Disk, Towed	Off-Highway Tractor	232.83	29	8.0	Diesel	140	0.44		
TCC-Eastern - 2	CAT 14 M	Grader	116.41	29	4.0	Diesel	274	0.41		
TCC-Eastern - 2	Water Pump 4" Electric	Pumps	27.94	29	1.0	Diesel	10	0.74		
TCC-Eastern - 2	CAT 825, Roller	Rollers	232.83	29	8.0	Diesel	315	0.38		
TCC-Eastern - 3	CAT LOADER/HOE 416 E	Rubber Tired Loader	87.31	34	2.6	Diesel	78	0.36		
TCC-Eastern - 3	Compactor, Trench Roller, Vib 32"w	Roller	174.63	34	5.1	Diesel	20	0.38		
TCC-Eastern - 5	CAT D8 Dozer	Crawler Tractor	990.0	44	22.5	Diesel Tier 4 or Hybrid Diesel	179	0.43		
TCC-Eastern - 5	Grader 16H - 16' Blade	Grader	990.0	44	22.5	Diesel	285	0.41		
TCC-Eastern - 5	623G Scraper Elevate 21 CY	Scaper	1980.0	44	45.0	Diesel	359	0.48		
TCC-Eastern - 6	CAT 825H Compactor	Rollers	2000	204	10	Diesel	145	0.38		
TCC-Eastern - 6	CAT CB-634D Vibratory 84"	Rollers	2000	204	10	Diesel	315	0.38		
TCC-Eastern - 6	CAT Grader 16H	Grader	1800	204	9	Diesel	285	0.41		
TCC-Eastern - 6	CAT 980 Loader 7.5 CY	Rubber Tired Loaders	2000	204	10	Diesel	285	0.41		
TCC-Eastern - 6	CAT D8 Dozer	Crawler Tractor	4325.45	204	21.2	Diesel Tier 4 or Hybrid Diesel	179	0.43		
TCC-Eastern - 6	623G Scraper Elevate 21 CY	Scaper	6895.8	204	33.8	Diesel	359	0.48		
TCC-Eastern - 7	CAT CB-634D Vibratory 84"	Rollers	1610.3	149	10.8	Diesel	315	0.38		
TCC-Eastern - 7	CAT Grader 16H	Grader	1610.3	149	10.8	Diesel	285	0.41		
TCC-Eastern - 7	CAT D8 Dozer	Crawler Tractor	1610.3	149	10.8	Diesel Tier 4 or Hybrid Diesel	179	0.43		
TCC-Eastern - 7	Manitowoc 777 200 Ton Crane	Crane	95.7	149	0.6	Diesel	760	0.29		
TCC-Eastern - 8	CAT CB-634D Vibratory 84"	Rollers	3852.63	65	59.3	Diesel	145	0.38		
TCC-Eastern - 8	CAT Grader 16H	Graders	3852.63	65	59.3	Diesel	285	0.41		
TCC-Eastern - 8	CAT D8 Dozer	Crawler Tractor	3852.63	65	59.3	Diesel	328	0.43		
TCC-Eastern - 8	Hydraulic 9 Ton Crane	Crane	453.22	65	7.0	Diesel	85	0.29		
TCC-Eastern - 8	Manitowoc 777 200 Ton Crane	Crane	485.9	65	7.5	Diesel	760	0.29		
TCC-Eastern - 9	CAT Hyd Excavator 1CY	Excavator	9.2	57	0.2	Diesel	138	0.38		
TCC-Eastern - 9	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	9.2	57	0.2	Diesel or Hybrid	130	0.36		
TCC-Eastern - 10	Manitowoc 777 200 Ton Crane	Crane	553.8	81	6.8	Diesel	760	0.29		
TCC-Eastern - 10	1600 CFM Compressor Diesel	Air Compressor	485.9	81	6.0	Diesel Tier 4	540	0.48		
TCC-Eastern - 10	Hydraulic 55 Ton Crane	Crane	971.8	81	12.0	Diesel	350	0.29		
TCC-Eastern - 10	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	849.4	81	10.5	Diesel or Hybrid	130	0.36		
TCC-Eastern - 10	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	485.9	81	6.0	Diesel	8	0.56		
TCC-Eastern - 10	Slurry Wall Techniwell	Pumps	485.9	81	6.0	Diesel	500	0.74		
TCC-Eastern - 10	CAT Hyd Excavator 1CY	Excavator	363.5	81	4.5	Diesel	138	0.38		
TCC-Eastern - 10	250 CFM Compressor Diesel	Air Compressor	13.4	81	0.2	Diesel Tier 3	75	0.48		
TCC-Eastern - 11	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	9.2	17	0.5	Diesel or Hybrid	130	0.36		
TCC-Eastern - 11	CAT Hyd Excavator 1CY	Excavator	9.6	17	0.6	Diesel	138	0.38		
TCC-Eastern - 12	CAT Hyd Excavator 1CY	Excavator	363.5	92	4.0	Diesel	138	0.38		
TCC-Eastern - 12	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	849.4	92	9.2	Diesel or Hybrid	130	0.36		
TCC-Eastern - 12	Hydraulic Excavator to 3.5 tons = Kobelco SK485LC' 2.75cy 345 hp Excavator	Excavator	363.5	92	4.0	Diesel	345	0.38		
TCC-Eastern - 12	1600 CFM Compressor Diesel	Air Compressor	485.9	92	5	Diesel Tier 4	540	0.48		
TCC-Eastern - 12	Hydraulic 55 Ton Crane	Crane	971.8	92	10.6	Diesel	350	0.29		
TCC-Eastern - 12	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	485.9	92	5.3	Diesel	8	0.56		
TCC-Eastern - 12	Slurry Wall Techniwell	Pumps	485.9	92	5.3	Diesel	500	0.74		
TCC-Eastern - 12	Manitowoc 777 200 Ton Crane	Crane	485.9	92	5.3	Diesel	760	0.29		
TCC-Eastern - 13	Manitowoc 777 200 Ton Crane	Crane	629.5	65	9.7	Diesel	760	0.29		
TCC-Eastern - 15	Hydraulic 40 Ton Crane	Crane	400	18	22.2	Diesel	300	0.29		
TCC-Eastern - 15	Hydraulic 25 Ton Crane	Crane	160	18	8.9	Diesel	100	0.29		
TCC-Eastern - 15	Hydraulic 9 Ton Crane	Crane	400	18	22.2	Diesel	85	0.29		
TCC-Eastern - 15	CAT Forklift 5,500 LB	Aerial Lift	400	18	22.2	Diesel	63	0.31		
TCC-Eastern - 15	Heavy Duty Mechanic Welder	Welder	160	18	8.9	Diesel	400	0.45		
TCC-Eastern - 15	1600 CFM Compressor Diesel	Air Compressor	160	18	8.9	Diesel Tier 4	540	0.48		
TCC-Eastern - 15	Truck Crane Lattice Boom 90T	Crane	160	18	8.9	Diesel Tier 4	300	0.29		
TCC-Eastern - 15	Telescope RT Forklift 5500	Forklift	160	18	8.9	Diesel	63	0.2		
TCC-Eastern - 16	Manitowoc 777 200 Ton Crane	Crane	629.5	65	9.7	Diesel	760	0.29		
TCC-Eastern - 17	Manitowoc 777 200 Ton Crane	Crane	222.9	43	5.2	Diesel	760	0.29		
TCC-Eastern - 17	Hydraulic 40 Ton Crane	Crane	153	43	3.6	Diesel	300	0.29		
TCC-Eastern - 17	Hydraulic 25 Ton Crane	Crane	190	43	4.4	Diesel	100	0.29		
TCC-Eastern - 17	250 CFM Compressor Diesel	Air Compressor	13.4	43	0.3	Diesel Tier 3	75	0.48		
TCC-Eastern - 18	Hydraulic 15 Ton Crane	Crane	191.3	21	9.1	Diesel	85	0.29		
TCC-Eastern - 18	Dewater Pump 6"	Pump	765.2	21	36.4	Diesel	50	0.74		
TCC-Eastern - 18	150 KW Diesel Generator	Generator	191.3	21	9.1	Diesel Tier 4	183	0.74		
TCC-Eastern - 19	Manitowoc 777 200 Ton Crane	Crane	108.7	20	5.4	Diesel	760	0.29		
TCC-Eastern - 19	Trailer Conc Pump 100 CY HR	Pump	40.7	20	2.0	Diesel	200	0.74		
TCC-Eastern - 19	250 CFM Compressor Diesel	Air Compressor	40.7	20	2.0	Diesel Tier 3	75	0.48		
TCC-Eastern - 20	250 CFM Compressor Diesel	Air Compressor	520.8	41	12.7	Diesel Tier 3	75	0.48		
TCC-Eastern - 20	Manitowoc 777 200 Ton Crane	Crane	520.8	41	12.7	Diesel	760	0.29		

TCC-Eastern - 21	250 CFM Compressor Diesel	Air Compressor	1061.7	93	11.4	Diesel Tier 3	75	0.48
TCC-Eastern - 21	Manitowoc 777 200 Ton Crane	Crane	635.8	93	6.8	Diesel	760	0.29
TCC-Eastern - 21	Trailer Conc Pump 100 CY HR	Pump	521.5	93	5.6	Diesel	200	0.74
TCC-Eastern - 21	Manitowoc 999-275 Ton Crane	Crane	351.2	93	3.8	Diesel	900	0.29
TCC-Eastern - 22	1600 CFM Compressor Diesel	Air Compressor	160	16	10.0	Diesel Tier 4	540	0.48
TCC-Eastern - 22	Hydraulic 25 Ton Crane	Crane	160	16	10.0	Diesel	100	0.29
TCC-Eastern - 22	Truck Crane Lattice Boom 90T	Crane	160	16	10.0	Diesel Tier 4	300	0.29
TCC-Eastern - 22	Telescope RT Forklift 5500	Forklift	160	16	10.0	Diesel	63	0.2
TCC-Eastern - 22	Heavy Duty Mechanic Welder	Welder	160	16	10.0	Diesel	400	0.45
TCC-Eastern - 23	250 CFM Compressor Diesel	Air Compressor	1932	105	18.4	Diesel Tier 3	75	0.48
TCC-Eastern - 23	Hydraulic 40 Ton Crane	Crane	756	105	7.2	Diesel	300	0.29
TCC-Eastern - 24	250 CFM Compressor Diesel	Air Compressor	26,349.50	2064	12.8	Diesel Tier 3	75	0.48
TCC-Eastern - 24	Hydraulic 40 Ton Crane	Crane	12689.3	2064	6.1	Diesel	300	0.29
TCC-Eastern - 24	Hydraulic 9 Ton Crane	Crane	12689.3	2064	6.1	Diesel	85	0.29
TCC-Eastern - 24	CAT Forklift 5,500 LB	Aerial Lift	12689.3	2064	6.1	Diesel	63	0.31
TCC-Eastern - 24	CAT D8 Dozer	Crawler Tractor	8421.3	2064	4.1	Diesel Tier 4 or Hybrid Diesel	179	0.43
TCC-Eastern - 24	CAT 988 H Wheel Loader	Rubber Tired Loader	8421.3	2064	4.1	Diesel	400	0.36
TCC-Eastern - 24	Manitowoc 777 200 Ton Crane	Crane	42017	2064	20.4	Diesel	760	0.29
TCC-Eastern - 24	Grout Pump	Cement & Mortar Mix	802.2	2064	0.4	Diesel	500	0.56
TCC-Eastern - 24	Grout Mixer	Cement & Mortar Mix	802.2	2064	0.4	Diesel	70	0.56
TCC-Eastern - 25	250 CFM Compressor Diesel	Air Compressor	1932	80	24.2	Diesel Tier 3	75	0.48
TCC-Eastern - 25	Hydraulic 40 Ton Crane	Crane	756	80	9.5	Diesel	300	0.29
TCC-Eastern - 26	250 CFM Compressor Diesel	Air Compressor	10793	736	14.7	Diesel Tier 3	75	0.48
TCC-Eastern - 26	Hydraulic 40 Ton Crane	Crane	6373.9	736	8.7	Diesel	300	0.29
TCC-Eastern - 26	Hydraulic 9 Ton Crane	Crane	6373.9	736	8.7	Diesel	85	0.29
TCC-Eastern - 26	CAT Forklift 5,500 LB	Aerial Lift	6373.9	736	8.7	Diesel	63	0.31
TCC-Eastern - 26	CAT D8 Dozer	Crawler Tractor	5645.6	736	7.7	Diesel Tier 4 or Hybrid Diesel	179	0.43
TCC-Eastern - 26	Grout Pump	Cement & Mortar Mix	532.2	736	0.7	Diesel	500	0.56
TCC-Eastern - 26	Grout Mixer	Cement & Mortar Mix	532.2	736	0.7	Diesel	70	0.56
TCC-Eastern - 27	Hydraulic 55 Ton Crane	Crane	1315.6	61	21.6	Diesel	350	0.29
TCC-Eastern - 27	Manitowoc 777 200 Ton Crane	Crane	600.6	61	9.8	Diesel	760	0.29
TCC-Eastern - 27	Telescope RT Forklift 5500	Forklift	476.7	61	7.8	Diesel	63	0.2
TCC-Eastern - 27	1600 CFM Compressor Diesel	Air Compressor	100	61	1.6	Diesel Tier 4	540	0.48
TCC-Eastern - 27	Hydraulic 25 Ton Crane	Crane	100	61	1.6	Diesel	100	0.29
TCC-Eastern - 27	Truck Crane Lattice Boom 90T	Crane	100	61	1.6	Diesel Tier 4	300	0.29
TCC-Eastern - 27	Heavy Duty Mechanic Welder	Welder	100	61	1.6	Diesel	400	0.45
TCC-Eastern - 27	Hydraulic 40 Ton Crane	Crane	76.5	61	1.3	Diesel	300	0.29
TCC-Eastern - 27	Hydraulic 9 Ton Crane	Crane	76.6	61	1.3	Diesel	85	0.29
TCC-Eastern - 27	CAT Forklift 5,500 LB	Aerial Lift	76.5	61	1	Diesel	63	0.31
TCC-Eastern - 28	Hydraulic 55 Ton Crane	Crane	343	306	1.1	Diesel	350	0.29
TCC-Eastern - 28	Manitowoc 777 200 Ton Crane	Crane	715	306	2.3	Diesel	760	0.29
TCC-Eastern - 28	Telescope RT Forklift 5500	Forklift	636	306	2.1	Diesel	63	0.2
TCC-Eastern - 28	1600 CFM Compressor Diesel	Air Compressor	100	306	0.3	Diesel Tier 4	540	0.48
TCC-Eastern - 28	Hydraulic 25 Ton Crane	Crane	100	306	0.3	Diesel	100	0.29
TCC-Eastern - 28	Truck Crane Lattice Boom 90T	Crane	100	306	0.3	Diesel Tier 4	300	0.29
TCC-Eastern - 28	Heavy Duty Mechanic Welder	Welder	100	306	0.3	Diesel	400	0.45
TCC-Eastern - 29	CAT D8Rii, Dozer w winch	Crawler Tractor	2150	135	15.9	Diesel	310	0.43
TCC-Eastern - 29	CAT 12 M	Grader	700	135	5.2	Diesel	173	0.41
TCC-Eastern - 29	CAT 815, Roller	Rollers	500	135	3.7	Diesel	170	0.38
TCC-Eastern - 29	CAT 621G Scraper, Conventional	Scraper	500	135	3.7	Diesel	330	0.48
TCC-Eastern - 29	Cat 6 mgal w/ CAT 725 Tractor, 320hp	Crawler Tractor	4510	135	33.4	Diesel	320	0.43
TCC-Eastern - 29	CAT 988 H Wheel Loader	Rubber Tired Loader	5645	135	41.8	Diesel	400	0.36
TCC-Eastern - 29	CAT Hyd Excavator 1CY	Excavator	190.2	135	1.4	Diesel	138	0.38
TCC-Eastern - 29	Manitowoc 777 200 Ton Crane	Crane	240	135	1.8	Diesel	760	0.29
TCC-Eastern - 29	CAT 966 Loader 5.5 CY	Rubber Tired Loader	190.2	135	1.4	Diesel	286	0.36
TCC-Eastern - 29	CAT 390 MASS EXC	Excavator	700	135	5.2	Diesel	534	0.38
TCC-Eastern - 29	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	2100	135	15.6	Diesel	345	0.38
TCC-Eastern - 29	Farm Tractor, All Wheel Drive, 285 HP	Off-Highway Tractor	810	135	6.0	Diesel	80	0.44
TCC-Eastern - 29	CAT 966 GII Wheel Loader	Rubber Tired Loader	100	135	0.7	Diesel	170	0.36
TCC-Eastern - 29	CAT D9R, Dozer w ripper	Crawler Tractor	1560	135	11.6	Diesel	410	0.43
TCC-Eastern - 29	CAT 631G Scraper, Conventional	Scraper	1650	135	12.2	Diesel	515	0.48
TCC-Eastern - 29	Disk, Towed	Off-Highway Tractor	280	135	2.1	Diesel	140	0.44
TCC-Eastern - 29	Hydro Mulcher, 18 HP	Pump	100	135	0.7	Diesel	25	0.29

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

**Offroad Equipment (Electric) Inventory for Twin Cities Complex - Eastern Tunnel Shaft
Options 6A, 6B**

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
TCC-Eastern - 1	400A, Electric Welder	298.66	90	0.25	1
TCC-Eastern - 2	400A, Electric Welder	7.53	2200	0.25	0
TCC-Eastern - 2	Light Plant, 4 lite, 1000w	931.3	29		
TCC-Eastern - 10	Gantry Crane	420	81	0.25	1
TCC-Eastern - 23	Gantry Crane	1302	105	0.25	3
TCC-Eastern - 23	Axial Fan 114,000 CFM	1428	105	50	680
TCC-Eastern - 24	Axial Fan 114,000 CFM	262506.6	2064	50	6,359
TCC-Eastern - 25	Gantry Crane	1050	80	0.25	3
TCC-Eastern - 25	Axial Fan 114,000 CFM	1344	80	50	840
TCC-Eastern - 26	Gantry Crane	10526.9	736	0.25	4
TCC-Eastern - 26	Axial Fan 114,000 CFM	110215	736	50	7,487
TCC-Eastern - 27	Gantry Crane	526.7	61	0.25	2
TCC-Eastern - 28	Gantry Crane	386	306	0.25	0
TCC-Eastern - 29	Gantry Crane	14700	135	0.25	27

Electricity for TBM Operations included in the Summary Workbook

Vehicle Inventory for Twin Cities Complex - Eastern Tunnel Shaft
Options 6A, 6B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. office)	# day	Vehicle Hours	Hours/trip	# of Vehicles Trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
TCC-Eastern - 1	Pickup, 1/2T, 2wd	Materials from Sacramento	90	389.8	0.6	688	7.6	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 1	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	90	400.0	0.6	706	7.8	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 1	Truck, Flatbed, 10T, Hwy	Crane, Tractor and Aerial Lift from Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 1	Truck, Flatbed, 10T, Hwy	Excavator, Two Cranes, Aerial Lift from and to Sacramento	2	2.3	0.6	4	2.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 2	Pickup, 1/2T, 2wd	Materials from Sacramento	29	232.8	0.6	411	14.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 2	Truck, Flatbed, 10T, Hwy	Roller from Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 2	Truck, Flatbed, 10T, Hwy	Tractor to Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 2	Truck, Flatbed, 10T, Hwy	Grader from and to Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 3	Truck, Flatbed, 10T, Hwy	Loader from and to Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 5	Truck, Flatbed, 10T, Hwy	Dozer, Scraper, and Grader from Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 6	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	204	133.2	0.6	235	1.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 6	Truck, Flatbed, 10T, Hwy	Roller from Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 6	Truck, Flatbed, 10T, Hwy	Roller, Grader, and Scraper to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 6	Truck, Flatbed, 10T, Hwy	Loader from and to Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 7	Highway Dump Truck 18 CY	Materials from Sacramento	149	96.3	0.6	170	1.1	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 7	Truck, Flatbed, 10T, Hwy	Grader from Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 7	Truck, Flatbed, 10T, Hwy	Two Cranes from and to Sacramento	2	2.3	0.6	4	2.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 8	Truck Flatbed 4 T Highway	Rebar from Sacramento	65	8.5	0.6	15	0.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 8	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	65	39.7	0.0	1190	18.3	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Eastern - 8	Truck, Flatbed, 10T, Hwy	Dozer, Grader, and Roller to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 8	Truck, Flatbed, 10T, Hwy	Crane from and to Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 9	Truck, Flatbed, 10T, Hwy	Excavator and Loader from Sacramento	1	1.1	0.6	2	2.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 9	Truck Flatbed 4 T Highway	Rebar from Sacramento	57	33.4	0.6	59	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 9	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	57	45.8	0.0	1374	24.1	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Eastern - 9	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	57	96.3	0.6	170	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 10	Truck, Flatbed, 10T, Hwy	Excavator and Two Cranes from Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 11	Truck Flatbed 4 T Highway	Rebar from Sacramento	17	0.6	0.6	1	0.1	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 11	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	17	1.8	0.0	54	3.2	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Eastern - 12	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	92	38.3	0.0	1150	12.5	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Eastern - 12	Truck Flatbed 4 T Highway	Rebar from Sacramento	92	34.0	0.6	60	0.7	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 12	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	92	96.3	0.6	170	1.8	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 12	Truck, Flatbed, 10T, Hwy	Two Excavators, Loader, and Crane from Sacramento	1	2.3	0.6	4	4.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 15	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	18	96.3	0.6	170	9.4	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 15	Truck, Flatbed, 10T, Hwy	Five Cranes and Aerial Lift from Sacramento	1	3.4	0.6	6	6.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 17	Truck Flatbed 4 T Highway	Rebar from Sacramento	43	17.0	0.6	30	0.7	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 17	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	43	83.7	0.0	2512	58.4	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Eastern - 18	Truck, Flatbed, 10T, Hwy	Crane from and to Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 19	Truck Flatbed 4 T Highway	Rebar from Sacramento	20	2.3	0.6	4	0.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 19	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	20	6.0	0.0	180	9.0	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Eastern - 20	Truck Flatbed 4 T Highway	Rebar from Sacramento	41	5.1	0.6	9	0.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 21	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	93	29.5	0.0	884	9.5	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Eastern - 23	Truck, Flatbed, 10T, Hwy	Pre-Cast Segments from Sacramento	105	275.4	0.6	486	4.6	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 24	Truck Flatbed 4 T Highway	Materials from Sacramento	2064	147.3	0.6	260	0.1	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 24	Truck Flatbed 4 T Highway	Materials from Sacramento	2064	254.4	0.6	449	0.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 24	Truck, Flatbed, 10T, Hwy	Pre-Cast Segments from Sacramento	2064	11252.9	0.6	19858	9.6	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 24	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	2064	68009.8	0.6	120017	58.1	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 25	Truck, Flatbed, 10T, Hwy	Pre-Cast Segments from Sacramento	80	69.1	0.6	122	1.5	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 26	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	736	39280.5	0.6	69319	94.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 26	Truck, Flatbed, 10T, Hwy	Dozer Tractor and Loader Grader to Sacramento	1	1.1	0.6	2	2.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 26	Truck, Flatbed, 10T, Hwy	Pre-Cast Segments from Sacramento	736	6343.8	0.6	11195	15.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 27	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	736	1847.2	0.6	3260	4.4	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 27	Truck, Flatbed, 10T, Hwy	Three Cranes to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 28	Truck, Flatbed, 10T, Hwy	Remove TBM to Sacramento	306	180.0	0.6	318	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Eastern - 28	Truck, Flatbed, 10T, Hwy	Two Aerial Lifts and Crane to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	

TCC Eastern - 29	Truck, Flatbed, 10T, Hwy	Scraper, Four Tractors, Grader, Roller, Scraper, Loader, and Excavator to/from Sacramento	2	5.7	0.6	10	5.0	Twin Cities Complex to/from Sacramento	17	34	Diesel
TCC Eastern - 29	Truck, Flatbed, 10T, Hwy	Crane, Two Excavators, to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel
TCC Eastern - 29	Truck Flatbed 4 T Highway	Materials from Sacramento	135	100.9	0.6	178	1.3	Twin Cities Complex to/from Sacramento	17	34	Diesel
Vehicle Use on Unpaved Road Surface (no access roads at work and ride lots) -- on the Construction Site											
TCC Eastern - 1	Articulated Rear Dump 22 CY/CAT 730	Dumpeer to move fill on-site	90	1093.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	5466		Diesel or Hybrid
TCC Eastern - 2	Cat 30mpg w/Cat 770, 511HP	Dumpers	29	116.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	582		Diesel
TCC Eastern - 3	Truck, End Dump, 10-13cy, Hwy	Dumpers	34	174.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	873		Diesel
TCC Eastern - 6	Water Tanker	Off-Highway Truck	204	240.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1200		Diesel
TCC Eastern - 7	Truck, End Dump, 10-13cy, Hwy	Dumpers for Filled from Twin Cities Complex Borrow	149	4725.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	23625		Diesel
TCC Eastern - 8	Concrete Pump Truck	Off-Highway Truck	65	68.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	340		Diesel
TCC Eastern - 9	CAT 730 Rear Dump	Dumper	57	148	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	742		Diesel or Hybrid
TCC Eastern - 9	CAT 725 Tractor, 320hp	Dumper	57	140	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	800		Diesel or Hybrid
TCC Eastern - 10	CAT 730 Rear Dump	Dumper	81	554	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2770		Diesel or Hybrid
TCC Eastern - 10	Articulated Rear Dump 22 CY/CAT 730	Dumpeer	81	485.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2430		Diesel or Hybrid
TCC Eastern - 10	Concrete Pump Truck	Off-Highway Truck	81	3005.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	15025		Diesel
TCC Eastern - 11	CAT 730 Rear Dump	Dumpeer	17	148	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	742		Diesel or Hybrid
TCC Eastern - 12	CAT 730 Rear Dump	Dumper	92	553.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2770		Diesel or Hybrid
TCC Eastern - 12	Articulated Rear Dump 22 CY/CAT 730	Dumpeer	92	485.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2430		Diesel or Hybrid
TCC Eastern - 17	Concrete Pump Truck	Off-Highway Truck	43	394.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1974		Diesel
TCC Eastern - 29	CAT 725 Tractor, 320hp	Dumper	135	255.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1275		Diesel
TCC Eastern - 29	Truck, End Dump, 10-13cy, Hwy	Dumpeer	135	8780.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	43900		Diesel

Employees Required to Twin Cities Complex - Eastern Tunnel Shaft
Options 6A, 6B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
TCC-Eastern - 1	Carpenter Apprentice	298.7	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Carpenter Foreman	298.7	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Carpenter Journeyman	597.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Electrical Foreman	149.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Electrician Journeyman	597.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Iron Worker Journeyman Rebar/Struct	597.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Laborer G2 General	597.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Operator G3a Cranes 45 t and under	298.7	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Teamster G3 Boom Truck	149.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Operator G4 Dozer & Push Cat	364.4	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Operator G2 Excavator 3.5 to 7.0 cy	182.2	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	OPERATING ENGINEER FOREMAN	91.1	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Teamster G3 ED 8-24cy, Water>7mgal	1093.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Bulfgang Foreman	400.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Bulfgang Laborer	800.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Mechanic / Welder	400.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Hyd Crane Operator	800.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 1	Flat Truck Driver	400.0	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-1						
TCC-Eastern - 2	Laborer G2 General	27.9	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 2	Operator G5 Compactor w-blade	232.8	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 2	Operator G4 Dozer & Push Cat	232.8	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 2	OPERATING ENGINEER FOREMAN	232.8	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 2	Operator G2 Finish Blade	116.4	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 2	Teamster G3 ED 8-24cy, Water>7mgal	116.4	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-2						
TCC-Eastern - 3	Laborer G1 Pipe layers	349.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 3	Laborer G1 Power Tamper	174.6	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 3	Operator G3 BH-Loader>3/4cy	87.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 3	Teamster G2 Hwy ED 6-8cy, Water<7mgal	174.6	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-3						
TCC-Eastern - 4	Accountant	16128.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Concrete Superintendent	16128.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Cost Engineer	16128.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Electrical Superintendent	15552.8	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Environmental Manager	15552.8	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Equipment Superintendent	15552.8	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Field Engineer	12096.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	General Superintendent	16128.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Geotechnical Manager	15552.8	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Office Administrator	16128.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Office Manager	16128.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Payroll Clerk	16128.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Project Engineer	16128.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Project Manager	16128.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Purchasing Agent	16128.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	QC Manager	16128.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	QC Technician	8064.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Runner	16128.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Safety Engineer	31102.8	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Safety Manager	16128.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Schedule Engineer	8064.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Shift Engineers	31102.8	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Survey Party Chief	16128.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Survey Rod Man	16128.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Tunnel Superintendent	15552.8	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 4	Tunnel Walkers	31102.8	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-4						
TCC-Eastern - 5	General Foreman	495.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 5	Dozer Operator	990.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 5	Grader Operator	990.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 5	Operator G4 Grade Check	495.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 5	Scraper Operator	1980.0	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-5						
TCC-Eastern - 6	General Foreman	2282.7	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 6	Dozer Operator	4325.5	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 6	Grader Operator	4325.5	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 6	Operator G4 Grade Check	2042.7	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 6	Scraper Operator	8170.9	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 6	Grade Setter / Checker	240.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 6	Loader Operator	240.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 6	General Laborer	480.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 6	Flagger	480.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 6	Compactor Operator	480.0	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-6						
TCC-Eastern - 7	Grade Setter / Checker	1610.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 7	Compactor Operator	1610.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 7	Dozer Operator	1610.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 7	Grader Operator	1610.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 7	Truck Driver	1610.3	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-7						
TCC-Eastern - 8	Hyd Crane Operator	453.2	10		Sacramento to/from Twin Cities Complex	17

TCC-Eastern - 8	General Laborer	809.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 8	Carpenter	1424.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 8	Carpenter Foreman	216.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 8	Iron Worker Foreman	377.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 8	Iron Worker	3770.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 8	Truck Driver	560.0	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-8					
TCC-Eastern - 9	Shifter	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 9	Lead Miner	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 9	Miner	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 9	Loader Operator	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 9	Excavator Operator	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 9	Truck Driver	146.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 9	Carpenter	654.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 9	Carpenter Foreman	163.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 9	General Laborer	15.3	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-9					
TCC-Eastern - 10	General Laborer	6493.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	General Foreman	1335.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Mechanic Welder	971.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Shaft Crane Operator	971.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Crane Oiler	971.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Truck Driver	553.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Hyd Crane Operator	971.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Loader Operator	849.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Shifter	1457.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Lead Miner	485.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Miner	3887.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Carpenter	81.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Carpenter Foreman	156.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Iron Worker Foreman	989.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Iron Worker	4929.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 10	Excavator Operator	363.5	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-10					
TCC-Eastern - 11	Truck Driver	146.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 11	Loader Operator	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 11	Shifter	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 11	Lead Miner	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 11	Miner	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 11	Excavator Operator	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 11	Carpenter	623.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 11	Carpenter Foreman	7.7	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-11					
TCC-Eastern - 12	Mechanic / Welder	971.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Hyd Crane Operator	971.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Loader Operator	849.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	General Laborer	6491.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	General Foreman	13353.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Carpenter	112.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Carpenter Foreman	13.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Truck Driver	553.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Shifter	1457.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Lead Miner	485.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Miner	3887.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Iron Worker Foreman	989.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Iron Worker	4929.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Excavator Operator	363.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Shaft Crane Operator	971.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 12	Crane Oiler	971.8	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-12					
TCC-Eastern - 13	Shaft Crane Operator	629.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 13	Toplander	629.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 13	Crane Oiler	629.5	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-13					
TCC-Eastern - 14	Accountant	6901.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Concrete Superintendent	6901.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Cost Engineer	6901.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Electrical Superintendent	6655.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Equipment Superintendent	6655.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Field Engineer	5176.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	General Superintendent	6901.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Geotechnical Manager	6655.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Office Administrator	6901.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Office Manager	6901.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Payroll Clerk	6901.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Project Engineer	6901.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Project Manager	6901.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Purchasing Agent	6901.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	QC Manager	6901.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	QC Technician	3450.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Runner	6901.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Safety Engineer	13310.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Safety Manager	6901.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Schedule Engineer	3450.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Shift Engineers	13310.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Survey Party Chief	6901.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Survey Rod Man	6901.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Tunnel Superintendent	6655.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 14	Tunnel Walkers	13310.2	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-14					
TCC-Eastern - 15	Bullgang Foreman	560.0	10	Sacramento to/from Twin Cities Complex	17

TCC-Eastern - 15	Bulgang Laborer	1760.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 15	Mechanic / Welder	560.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 15	Hyd Crane Operator	960.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 15	Flat Truck Driver	400.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 15	Master Mechanic	480.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 15	Shaft Crane Operator	160.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 15	Crane Oiler	160.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 15	Diver Contractor	40.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 15	Electrician	160.0	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-15					
TCC-Eastern - 16	Shaft Crane Operator	629.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 16	Toplander	629.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 16	Crane Oiler	629.5	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-16					
TCC-Eastern - 17	Bottomlander	445.7	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 17	General Laborer	17.5	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 17	Hyd Crane Operator	380.0	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 17	Hyd Crane Operator	153.0	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 17	Iron Worker	4790.3	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 17	Iron Worker Foreman	598.8	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 17	Lead Miner	95.0	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 17	Miner	1957.6	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 17	Shaft Crane Operator	445.7	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 17	Shifter	693.8	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 17	Toplander	1057.9	24	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-17					
TCC-Eastern - 18	Shifter	191.3	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 18	Lead Miner	191.3	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 18	Miner	1530.4	24	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 18	Hyd Crane Operator	191.3	24	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-18					
TCC-Eastern - 19	Crane Oiler	176.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 19	Electrician	40.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 19	Iron Worker	1086.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 19	Iron Worker Foreman	135.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 19	Lead Miner	40.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 19	Mechanic Welder	40.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 19	Shaft Crane Operator	176.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 19	Shifter	176.6	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-19					
TCC-Eastern - 20	Bottomlander	520.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 20	Crane Oiler	520.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 20	Iron Worker	4166.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 20	Iron Worker Foreman	520.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 20	Shaft Crane Operator	520.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 20	Toplander	520.8	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-20					
TCC-Eastern - 21	Bottomlander	896.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Carpenter Foreman	26.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Concrete Pump Operator	422.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Crane Oiler	1264.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Electrician	417.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Lead Miner	1249.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Master Mechanic	114.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Mechanic Welder	1171.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Miner	6984.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Shaft Crane Operator	1364.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Shifter	1249.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Toplander	1364.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 21	Truck Driver	16039.8	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-21					
TCC-Eastern - 22	Bulgang Foreman	160.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 22	Bulgang Laborer	960.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 22	Mechanic / Welder	160.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 22	Master Mechanic	480.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 22	Shaft Crane Operator	160.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 22	Crane Oiler	160.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 22	Electrician	160.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 22	Hyd Crane Operator	160.0	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-22					
TCC-Eastern - 23	Bottomlander	966.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Conveyor Belt Man	840.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Crane Oiler	966.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Electrician	3066.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Hyd Crane Operator	756.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Lead Miner	2142.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Mechanic / Welder	3066.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Miner	23222.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Shaft Crane Operator	966.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Shifter	2142.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	ST2G Mucker Operator	336.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	TBM Operator	2352.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 23	Toplander	966.0	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-23					
TCC-Eastern - 24	Bottomlander	35646.1	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Bulgang Foreman	40550.1	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Bulgang Laborer	136821.8	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Conveyor Belt Man	30067.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Crane Oiler	35646.1	20	Sacramento to/from Twin Cities Complex	17

TCC-Eastern - 24	Dozer Operator	16843.1	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Electrician	57526.9	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Fanline Carrier Operator	27459.7	20		
TCC-Eastern - 24	Flat Truck Driver	12689.3	20		
TCC-Eastern - 24	Hyd Crane Operator	25378.6	20		
TCC-Eastern - 24	Lead Miner	30067.3	20		
TCC-Eastern - 24	Loader Operator	16843.1	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Master Mechanic	13729.8	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Mechanic / Welder	83946.0	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Miner	207863.6	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Operating Engineer	27124.4	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Operator G2 Plant Operator	27124.4	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Segment Carrier Operator	213632.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Shaft Crane Operator	25948.4	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Shifter	35646.1	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	TBM Operator	60134.7	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Toplander	35646.1	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Utility Truck Operator	55721.6	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 24	Man Transport Truck Operator	27860.8	20	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-24					
TCC-Eastern - 25	Bottomlander	966.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	Conveyor Belt Man	521.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	Crane Oiler	966.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	Electrician	3066.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	Hyd Crane Operator	756.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	Lead Miner	2142.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	Mechanic / Welder	3066.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	Miner	14364.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	Segment Carrier Operator	2016.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	Shaft Crane Operator	966.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	Shifter	2142.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	ST2G Mucker Operator	336.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	TBM Operator	2352.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 25	Toplander	966.0	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-25					
TCC-Eastern - 26	Bottomlander	20455.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Bulfgang Foreman	18110.4	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Bulfgang Laborer	59693.8	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Conveyor Belt Man	11691.0	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Crane Oiler	20455.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Dozer Operator	11291.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Electrician	23200.6	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Fanline Carrier Operator	11470.4	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Flat Truck Driver	6373.9	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Hyd Crane Operator	12747.9	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Lead Miner	11691.0	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Loader Operator	11291.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Master Mechanic	5754.8	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Mechanic / Welder	41084.2	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Miner	106129.6	20		
TCC-Eastern - 26	Operating Engineer	11291.3	20		
TCC-Eastern - 26	Operator G2 Plant Operator	11291.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Segment Carrier Operator	87989.0	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Shaft Crane Operator	20455.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Shifter	11691.0	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	TBM Operator	23381.9	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Toplander	20455.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Utility Truck Operator	11736.5	20	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 26	Man Transport Truck Operator	11736.5	20	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-26					
TCC-Eastern - 27	Bottomlander	977.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Bulfgang Foreman	471.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Bulfgang Laborer	929.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Crane Oiler	1453.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Electrician	1677.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Flat Truck Driver	76.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Forklift Operator	376.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Hyd Crane Operator	853.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Lead Miner	977.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Master Mechanic	300.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Mechanic / Welder	1754.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Miner	4499.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Shaft Crane Operator	1077.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Toplander	977.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 27	Toplander	977.3	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-27					
TCC-Eastern - 28	Shifter	1251.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Lead Miner	1605.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Miner	5775.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Forklift Operator	536.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Mechanic / Welder	2366.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Shaft Crane Operator	1351.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Toplander	1251.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Bottomlander	1251.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Crane Oiler	815.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Electrician	2066.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Hyd Crane Operator	815.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Master Mechanic	300.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Utility Truck Operator	386.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Bulfgang Foreman	100.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 28	Bulfgang Laborer	600.0	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-28					
TCC-Eastern - 29	Excavator Operator	190.2	10	Sacramento to/from Twin Cities Complex	17

TCC-Eastern - 29	Laborer G2 Concrete Laborer	1050.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Laborer G2 General	270.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Laborer G3 Dumpman	300.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Laborer G3 Flagman	760.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Shaft Crane Operator	190.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Toplander	190.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Bottomlander	190.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Crane Oiler	190.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Operator G2 Excavator 3.5 to 7.0 cy	2450.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Operator G2 Finish Blade	700.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Operator G3 Loader >4cy	800.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Operator G4 Dozer & Push Cat	3710.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Operator G4 Scraper	2150.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Operator G5 Compactor w-blade	500.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Operator G6 Tractor	810.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Operating Engineer Foreman	1035.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Teamster G2 Hwy ED 6-8cy, Water<7mgal	9525.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Eastern - 29	Teamster G4 ED 25-65 Cy	700.0	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Eastern-29					

Marine Inventory for Twin Cities Complex - Eastern Tunnel Shaft
Options 6A, 6B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Twin Cities Complex - Eastern Tunnel Shaft
Options 6A, 6B

Code	# day	Locomotive Type	From Depot Site	Delivery Depot	Rail Cars	Rail Cars/Day	Main Railroad	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
TCC-Eastern - 23	105	Pre Cast Segment 26' ID x 6' Wide	Sacramento	Twin Cities Complex Sidetrack	104	0.99	UPRR						
TCC-Eastern - 24	2064	Pre Cast Segment 26' ID x 6' Wide	Sacramento	Twin Cities Complex Sidetrack	3852	1.87	UPRR						
TCC-Eastern - 25	80	Pre Cast Segment 26' ID x 6' Wide	Sacramento	Twin Cities Complex Sidetrack	104	1.30	UPRR						
TCC-Eastern - 26	736	Pre Cast Segment 26' ID x 6' Wide	Sacramento	Twin Cities Complex Sidetrack	1364	1.85	UPRR						

Rail Activity for RTM to Southern Complex presented in Southern Complex workbooks

Helicopter Inventory for Twin Cities Complex - Eastern Tunnel Shaft
Options 6A, 6B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Twin Cities Complex - Eastern Tunnel Shaft
Options 6A, 6B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
TCC-Eastern - 1	507	90	5.6								
TCC-Central & Eastern - 2		29									
TCC-Central & Eastern - 5		44		249472	5670						
TCC-Central & Eastern - 6		24		1029535	42897						
TCC-Central & Eastern - 7		149				70863	476				
TCC-Central & Eastern - 8		65									
TCC-Central & Eastern - 9		57		607	11						
TCC-Central & Eastern - 10		81		12155	150						
TCC-Central & Eastern - 11		17									
TCC-Central & Eastern - 12		92									
TCC-Central & Eastern - 13		65		69238	1065						
TCC-Central & Eastern - 16		65		607	9						
TCC-Central & Eastern - 17		43									
TCC-Central & Eastern - 19		20									
TCC-Central & Eastern - 21		93									
TCC-Central & Eastern - 24 - RTM		2064									
TCC-Central & Eastern - 25		80									
TCC-Central & Eastern - 26 - RTM		736									
TCC-Central & Eastern - 26		736									
TCC-Central & Eastern - 29	395	135	2.9								

**Demolition Assumptions for Twin Cities Complex - Central & Eastern Tunnel Shaft
Options 6A, 6B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for New Hope Tract - Eastern Access Road

Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX G - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	NH-E Access -1	3/17/2026	3/18/2026	2	2	10
Embankment	NH-E Access -2	3/19/2026	3/20/2026	2	2	10
Culvert Pipe	NH-E Access -3	3/23/2026	3/23/2026	1	1	10
Subdrain System	NH-E Access -4	3/24/2026	3/25/2026	2	2	10
Road Base	NH-E Access -5	3/26/2026	3/27/2026	2	2	10
12-month - Intermediate Maintenance	NH-E Access -6	4/4/2028	4/13/2028	8	5	10
12-month - Final Maintenance	NH-E Access -7	4/4/2029	4/13/2029	8	5	10

Acres

0.84

Construction Schedule for New Hope - Eastern Tunnel Shaft						
Options 6A 6B						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Clear and Grub	NH-Eastern - 1	4/4/2028	4/5/2028	1	1	10
Ground Improvement	NH-Eastern - 2	4/6/2028	6/14/2028	50	5	10
Raise Shaft Pad	NH-Eastern - 3	6/15/2028	10/18/2028	90	5	10
Excavate, Set Strips, & Place Guide Wall	NH-Eastern - 4	10/19/2028	11/3/2028	12	5	10
Place Guide Walls Concrete	NH-Eastern - 5	11/6/2028	11/7/2028	1	1	10
Excavate Slurry Wall & Place Concrete & Rebar	NH-Eastern - 6	11/8/2028	12/15/2028	38	7	24
Slurry Wall including Strip Forms and Place Rebar & Top Beam	NH-Eastern - 7	12/18/2028	1/23/2029	37	7	24
Excavate Shaft	NH-Eastern - 8	1/30/2029	3/13/2029	43	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	NH-Eastern - 9	3/14/2029	3/27/2029	13	7	24
Dewater Shaft	NH-Eastern - 10	3/28/2029	4/3/2029	7	7	24
Place TBM Cradle Rebar and Cradle Pour	NH-Eastern - 11	4/4/2029	4/11/2029	6	5	10
Breakout Slurry Wall for TBM	NH-Eastern - 12	4/12/2029	5/8/2029	19	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	NH-Eastern - 13	4/12/2029	8/1/2029	80	5	10
Place Shaft Cover	NH-Eastern - 14	8/1/2029	8/7/2029	5	5	10
Total Site Acres	10.7					

Offroad Equipment (Fossil Fuel) Inventory for New Hope - Eastern Tunnel Shaft
Options 6A 6B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (If known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (If known)
NH-Eastern - 1	CAT D8 Dozer	Crawler Tractor	15.52	1	16	Diesel Tier 4 or Hybrid Dese	179	0.43		
NH-Eastern - 1	CAT Grader 16H - 16' Blade	Grader	15.52	1	16	Diesel	285	0.41		
NH-Eastern - 1	623G Scraper Elevate 21 CY	Scaper	31.04	1	31	Diesel	359	0.48		
NH-Eastern - 2	Air Compressor 375 CFM	Air Compressor	350	50	17	Diesel Tier 4	122	0.48		
NH-Eastern - 2	Grove RT Crane 30T	Crane	350	50	17	Diesel	160	0.29		
NH-Eastern - 2	DMM Deep Soil Mixer	Bore Drill Rig	350	50	17	Diesel	522	0.5		
NH-Eastern - 2	DMM Grout Mix Plant	Other Industrial Equipmen	830	50	17	Diesel	500	0.34		
NH-Eastern - 2	Case 590 SupN Loader	Rubber Tired Loaders	830	50	17	Diesel	110	0.36		
NH-Eastern - 3	CAT CB-634D Vibratory 84"	Rollers	636.8	90	7	Diesel	145	0.38		
NH-Eastern - 3	CAT Grader 16H	Graders	636.8	90	7	Diesel	285	0.41		
NH-Eastern - 3	CAT D8 Dozer	Crawler Tractor	636.8	90	7	Diesel	328	0.43		
NH-Eastern - 4	CAT Hyd Excavator 1CY	Excavator	4.5	12	0	Diesel	138	0.38		
NH-Eastern - 4	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	4.5	12	0	Diesel or Hybrid	130	0.36		
NH-Eastern - 6	1600 CFM Compressor Diesel	Air Compressor	163.5	38	4	Diesel Tier 4	540	0.48		
NH-Eastern - 6	Hydraulic 55 Ton Crane	Crane	350.6	38	9	Diesel	350	0.29		
NH-Eastern - 6	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	163.5	38	4	Diesel or Hybrid	130	0.36		
NH-Eastern - 6	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	163.5	38	4	Diesel	8	0.56		
NH-Eastern - 6	Manitowoc 777 200 Ton Crane	Crane	350.6	38	9	Diesel	760	0.29		
NH-Eastern - 7	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	178.4	37	5	Diesel or Hybrid	130	0.36		
NH-Eastern - 7	250 CFM Compressor Diesel	Air Compressor	2.5	37	0.1	Diesel Tier 3	75	0.48		
NH-Eastern - 7	CAT Hyd Excavator 1CY	Excavator	178.4	37	5	Diesel	138	0.38		
NH-Eastern - 8	Manitowoc 777 200 Ton Crane	Crane	132.4	43	3	Diesel	760	0.29		
NH-Eastern - 9	Manitowoc 777 200 Ton Crane	Crane	84	13	6	Diesel	760	0.29		
NH-Eastern - 9	Hydraulic 40 Ton Crane	Crane	27.3	13	2	Diesel	300	0.29		
NH-Eastern - 9	Hydraulic 25 Ton Crane	Crane	57.9	13	4	Diesel	100	0.29		
NH-Eastern - 10	Hydraulic 15 Ton Crane	Crane	75.2	7	11	Diesel	100	0.29		
NH-Eastern - 11	Manitowoc 777 200 Ton Crane	Crane	26.7	6	4	Diesel	760	0.29		
NH-Eastern - 11	250 CFM Compressor Diesel	Air Compressor	6.2	6	1	Diesel Tier 3	75	0.48		
NH-Eastern - 11	Trailer Conc Pump 100 CY HR	Pump	6.2	6	1	Diesel	200	0.74		
NH-Eastern - 12	250 CFM Compressor Diesel	Air Compressor	89.9	19	5	Diesel Tier 3	75	0.48		
NH-Eastern - 12	Manitowoc 777 200 Ton Crane	Crane	89.9	19	5	Diesel	760	0.29		
NH-Eastern - 13	Hydraulic 9 Ton Crane	Crane	200.5	80	3	Diesel	85	0.29		
NH-Eastern - 13	250 CFM Compressor Diesel	Air Compressor	530	80	7	Diesel Tier 3	75	0.48		
NH-Eastern - 13	777 200 Ton Crane Manitowoc 999-275	Crane	77.2	80	1	Diesel	760	0.29		
NH-Eastern - 13	Ton Crane	Crane	97.2	80	1	Diesel	900	0.29		
NH-Eastern - 14	Hydraulic 9 Ton Crane	Crane	30.3	#REF!	#REF!	Diesel	85	0.29		
NH-Eastern - 14	Hydraulic 40 Ton Crane	Crane	30.3	#REF!	#REF!	Diesel	300	0.29		
NH-Eastern - 14	CAT Forklift 5,500 LB	Aerial Lift	30.3	#REF!	#REF!	Diesel	63	0.31		
NH-Central - 14	250 CFM Compressor Diesel	Air Compressor	136.5	#REF!	#REF!	Diesel Tier 3	75	0.48		
NH-Central - 14	Manitowoc 777 200 Ton Crane Manitowoc	Crane	39.4	#REF!	#REF!	Diesel	760	0.29		
NH-Central - 14	999-275 Ton Crane	Crane	97.2	#REF!	#REF!	Diesel	900	0.29		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

**Offroad Equipment (Electric) Inventory for New Hope - Eastern Tunnel Shaft
Options 6A 6B**

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
NH-Eastern - 13	Axial Fan 114,000 CFM	159390	80	50	99,619
NH-Eastern - 13	400A, Electric Welder	4.44	80	15	0.833
NH-Eastern - 2	90 kW Generator	830	50		
NH-Eastern - 2	Water Pump 4"	830	50		
NH-Eastern - 6	Slurry Wall Techniwell	163.5	38		
NH-Eastern - 10	Dewatering Pump 6"	302.9	7		
NH-Eastern - 10	150 kW Generator	75.2	7		
NH-Eastern - 11	Conc Pump 100 cy/hr	6.2	6		
NH-Eastern - 14	Conc Pump 100 cy/hr	88.1	5		

Vehicle Inventory for New Hope - Eastern Tunnel Shaft
Options 6A 6B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
NH-Eastern - 1	Truck, Flatbed, 10T, Hwy	Grader and Scraper to and from Sacramento	2	2.5	0.6	4	2.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 1	Truck, Flatbed, 10T, Hwy	Crawler Tractor from Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 2	Pickup 1/2T 2 WD	Materials from Sacramento	50	830.0	0.6	1311	26	New Hope Shaft to/from Sacramento	19	38	Hybrid Gasoline	
NH-Eastern - 2	Truck Flatbed 4 T Highway	Materials from Sacramento	50	830.0	0.6	1311	26	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 2	Mechanic Truck	Materials from Sacramento	50	830.0	0.6	1311	26	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 2	Truck, Flatbed, 10T, Hwy	Crane, Trencher, & Other Equipment to and from Sacramento	2	3.8	0.6	6	3.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 2	Concrete Transit Mix Truck* 12cy	Concrete for Ground Improvement from Sacramento	50	110.9	0.5	208	4	New Hope Shaft to/from Sacramento	16	32	Diesel	
NH-Eastern - 3	Highway Dump Truck 18 CY	Materials from Sacramento	90	636.8	0.6	1005	11	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 3	Truck* End Dump* 16-20cy* Hwy	Soil Material in Covered Trucks from Twin Cities Complex	90	934.5	0.5	1869	21	New Hope Shaft to/from Twin Cities Complex	15	30	Diesel	
NH-Eastern - 3	Truck, Flatbed, 10T, Hwy	Grader and Roller to and from Sacramento	2	2.5	0.6	4	2.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 3	Truck, Flatbed, 10T, Hwy	Crawler Tractor to Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 4	Truck, Flatbed, 10T, Hwy	Excavator to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 4	Truck, Flatbed, 10T, Hwy	Loader from Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 4	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	12	38.0	0.6	60	5.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 5	Truck, Flatbed, 10T, Hwy	Rebar from Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 5	Concrete Transit Mix Truck* 12cy	Concrete from Lambert Road Concrete Batch Plant	1	9.0	0.5	18	18	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Eastern - 6	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	38	93.7	0.6	148	4	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 6	Truck Flatbed 4 T Highway	Rebar from Sacramento	38	13.9	0.6	22	1	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 6	Concrete Transit Mix Truck* 12cy	Concrete from Lambert Road Concrete Batch Plant	38	216.0	0.5	432	11	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane and Other Equipment to and from Sacramento	2	2.5	0.6	4	2.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane from Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 7	Truck, Flatbed, 10T, Hwy	Loader to Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 7	Truck Flatbed 4 T Highway	Rebar from Sacramento	37	0.6	0.6	1	0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 7	Concrete Transit Mix Truck* 12cy	Concrete from Lambert Road Concrete Batch Plant	37	4.5	0.5	9	0	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Eastern - 9	Truck Flatbed 4 T Highway	Rebar from Sacramento	13	5.7	0.6	9	1	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 9	Concrete Transit Mix Truck* 12cy	Concrete from Lambert Road Concrete Batch Plant	13	183.0	0.5	366	28	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Eastern - 9	Truck, Flatbed, 10T, Hwy	Cranes to and from Sacramento	2	2.5	0.6	4	2.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 10	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 11	Truck Flatbed 4 T Highway	Rebar from Sacramento	6	0.6	0.6	1	0.2	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 11	Concrete Transit Mix Truck* 12cy	Concrete from Lambert Road Concrete Batch Plant	6	13.5	0.5	27	5	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Eastern - 13	Truck Flatbed 4 T Highway	Rebar from Sacramento	80	1.3	0.6	2	0.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 13	Concrete Transit Mix Truck* 12cy	Concrete from Lambert Road Concrete Batch Plant	80	138.5	0.5	277	3	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Eastern - 13	Truck, Water, 4 kgal, Hwy	Recycled Water from Lodi	80	11.3	0.6	20	0.3	New Hope Shaft to/from Lodi	17	34	Diesel	
NH-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 14	Highway Flatbed 10 Ton	Materials from Sacramento	5	30.3	0.6	48	10	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 14	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site										Miles On-Site		
NH-Eastern - 4	CAT 730 Rear Dump	Dumper	12	14.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		70	Diesel or Hybrid	
NH-Eastern - 6	CAT 730 Rear Dump	Dumper	38	186.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		932	Diesel or Hybrid	
NH-Eastern - 6	Articulated Rear Dump 22 CY/CAT 730	Dumper	38	186.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		932	Diesel or Hybrid	
NH-Eastern - 6	Concrete Pump Truck	Off-Highway Truck	38	327.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1638	Diesel	

Employees Required to New Hope - Eastern Tunnel Shaft
Options 6A 6B

Code	Employee Type	Hours	# WorkDay		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
NH-Eastern - 1	General Foreman	7.12	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 1	Dozer Operator	14.24	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 1	Grader Operator	14.24	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 1	Operator G4 Grade Check	7.12	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 1	Scraper Operator	28.48	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-1						
NH-Eastern - 2	Laborer G2 General	1782.66	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 2	Operator G3a Crane	594.22	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 2	Operator G3 BH Loader	594.22	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 2	Operating Engineer	594.22	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 2	Operator G4 Grade Check	594.22	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 2	Operator G4 Heavy Duty Mechanic	594.22	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 2	Operator G2 Plant Operator	1188.44	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 2	Teamster G1 Hwy	594.22	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 2	Teamster G2 Hwy	594.22	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-2						
NH-Eastern - 3	Compactor Operator	636.8	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 3	Dozer Operator	636.8	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 3	Grade Setter / Checker	636.8	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 3	Grader Operator	636.8	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 3	Truck Driver	636.8	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-3						
NH-Eastern - 4	Carpenter	323	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 4	Carpenter Foreman	80.7	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 4	Excavator Operator	4.5	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 4	Lead Miner	4.5	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 4	Loader Operator	4.5	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 4	Miner	4.5	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 4	Shifter	4.5	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 4	Truck Driver	13.6	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-4						
NH-Eastern - 5	General Laborer	8.3	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 5	Carpenter	16.5	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 5	Carpenter Foreman	4.1	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-5						
NH-Eastern - 6	Crane Oiler	350.6	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	General Foreman	327.1	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	General Laborer	1799	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	Hyd Crane Operator	350.6	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	Iron Worker	1870.1	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	Iron Worker Foreman	374	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	Lead Miner	163.8	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	Mechanic Welder	327.1	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	Miner	1310.3	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	Shaft Crane Operator	350.6	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	Shifter	537.8	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	Loader Operator	163.5	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	Truck Driver	163.5	24		Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-6						
NH-Eastern - 7	Carpenter	25.1	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 7	Carpenter Foreman	2.5	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 7	Excavator Operator	178.3	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 7	General Foreman	178.3	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 7	General Laborer	557.1	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 7	Hyd Track Drill	178.3	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 7	Iron Worker	38.4	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 7	Iron Worker Foreman	9.6	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 7	Loader Operator	178.3	24		Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-7						
NH-Eastern - 8	Shaft Crane Operator	132.4	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 8	Toplander	132.4	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 8	Crane Oiler	132.4	24		Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-8						
NH-Eastern - 9	Bottomlander	84	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 9	Hyd Crane Operator	85.2	24		Sacramento to/from New Hope Shaft	19

NH-Eastern - 9	Iron Worker	890.4	24	Sacramento to/from New Hope Shaft	19
NH-Eastern - 9	Iron Worker Foreman	111.3	24	Sacramento to/from New Hope Shaft	19
NH-Eastern - 9	Lead Miner	14.5	24	Sacramento to/from New Hope Shaft	19
NH-Eastern - 9	Miner	338.4	24	Sacramento to/from New Hope Shaft	19
NH-Eastern - 9	Shifter	125.8	24	Sacramento to/from New Hope Shaft	19
NH-Eastern - 9	Toplander	193.1	24	Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-9					
NH-Eastern - 10	Shifter	75.7	24	Sacramento to/from New Hope Shaft	19
NH-Eastern - 10	Lead Miner	75.7	24	Sacramento to/from New Hope Shaft	19
NH-Eastern - 10	Miner	605.7	24	Sacramento to/from New Hope Shaft	19
NH-Eastern - 10	Hyd Crane Operator	75.7	24	Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-10					
NH-Eastern - 11	Crane Oiler	26.7	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 11	Electrician	6.2	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 11	Iron Worker	163.5	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 11	Iron Worker Foreman	20.4	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 11	Lead Miner	6.2	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 11	Mechanic Welder	6.2	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 11	Miner	90.6	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 11	Shaft Crane Operator	26.7	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 11	Shifter	26.7	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 11	Toplander	26.7	10	Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-11					
NH-Eastern - 12	Bottomlander	89.9	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 12	Crane Oiler	89.9	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 12	Iron Worker	718.8	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 12	Iron Worker Foreman	89.9	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 12	Shaft Crane Operator	89.9	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 12	Toplander	89.9	10	Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-12					
NH-Eastern - 13	Bottomlander	77	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 13	Concrete Pump Operator	48.7	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 13	Crane Oiler	135	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 13	Electrician	200.5	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 13	Hyd Crane Operator	200.5	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 13	Lead Miner	530	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 13	Mechanic / Welder	636.4	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 13	Miner	3544	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 13	Shaft Crane Operator	174	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 13	Shifter	530	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 13	Toplander	174	10	Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-13					
NH-Eastern - 14	Bullgang Foreman	30.3	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 14	Bullgang Laborer	60.6	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 14	Mechanic / Welder	118.1	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 14	Hyd Crane Operator	60.6	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 14	Flat Truck Driver	30.3	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Bottomlander	39.4	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Concrete Pump Operator	48.7	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Crane Oiler	97.2	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Lead Miner	136.5	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Miner	118.1	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Shaft Crane Operator	118.1	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Shifter	118.1	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Toplander	118.1	10	Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-14					

Marine Inventory for New Hope - Eastern Tunnel Shaft
Options 6A 6B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for New Hope - Eastern Tunnel Shaft
Options 6A 6B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

Helicopter Inventory for New Hope - Eastern Tunnel Shaft
Options 6A 6B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for New Hope - Eastern Tunnel Shaft
Options 6A 6B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
NH-Eastern - 1	10.7	1	11	3910	3910						
NH-Eastern - 3		90				28026	311				
NH-Eastern - 4		12		297	25						
NH-Eastern - 5		1									
NH-Eastern - 6		38		4095	108						
NH-Eastern - 7		37									
NH-Eastern - 8		43		14572	339						

**Demolition Assumptions for New Hope - Eastern Tunnel Shaft
Options 6A 6B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Canal Ranch Tract - Eastern Access Road

Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX G - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	CR-E Access -1	4/15/2026	4/20/2026	4	4	10
Embankment	CR-E Access -2	4/21/2026	4/27/2026	5	5	10
Culvert Pipe	CR-E Access -3	4/28/2026	4/28/2026	1	1	10
Subdrain System	CR-E Access -4	4/29/2026	5/8/2026	8	5	10
Road Base	CR-E Access -5	5/11/2026	5/15/2026	5	5	10
12-month - Intermediate Maintenance	CR-E Access -6	4/4/2028	4/13/2028	8	5	10
12-month - Final Maintenance	CR-E Access -7	4/4/2029	4/13/2029	8	5	10

Acres

3.2

Construction Schedule for Canal Ranch - Eastern Tunnel Shaft						
Options 6A, 6B						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Clear and Grub	CR-Eastern - 1	10/19/2028	10/20/2028	2	2	10
Ground Improvement	CR-Eastern - 2	10/23/2028	12/29/2028	50	5	10
Raise Shaft Pad	CR-Eastern - 3	1/1/2029	7/27/2029	148	5	10
Excavate, Set Strips, & Place Guide Wall	CR-Eastern - 4	7/30/2029	8/14/2029	12	5	10
Place Guide Walls Concrete	CR-Eastern - 5	8/15/2029	8/16/2029	2	2	10
Excavate Slurry Wall & Place Concrete & Rebar	CR-Eastern - 6	8/17/2029	9/25/2029	40	7	24
Slurry Wall including Strip Forms and Place Rebar & Top Beam	CR-Eastern - 7	9/26/2029	11/7/2029	43	7	24
Excavate Shaft	CR-Eastern - 8	11/8/2029	12/17/2029	40	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	CR-Eastern - 9	12/18/2029	12/31/2029	14	7	24
Dewater Shaft	CR-Eastern - 10	1/1/2030	1/7/2030	7	7	24
Place TBM Cradle Rebar and Cradle Pour	CR-Eastern - 11	1/8/2030	1/15/2030	6	5	10
Breakout Slurry Wall for TBM	CR-Eastern - 12	1/16/2030	2/11/2030	19	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	CR-Eastern - 13	1/16/2030	4/29/2030	75	5	10
Place Shaft Cover	CR-Eastern - 14	4/29/2030	5/7/2030	7	5	10
Total Site Acres	10.6					

Offroad Equipment (Fossil Fuel) Inventory for Canal Ranch - Eastern Tunnel Shaft
Options 6A, 6B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
CR-Eastern - 1	CAT D8 Dozer	Crawler Tractor	16.92	2	8	Diesel Tier 4 or Hybrid Diesel	179	0.43		
CR-Eastern - 1	CAT Grader 16H - 16' Blade	Grader	16.92	2	8	Diesel	285	0.41		
CR-Eastern - 1	623G Scraper Elevate 21 CY	Scaper	33.84	2	17	Diesel	359	0.48		
CR-Eastern - 2	Air Compressor 375 CFM	Air Compressor	62.9	50	1	Diesel Tier 4	122	0.48		
CR-Eastern - 2	Grove RT Crane 30T	Crane	62.9	50	1	Diesel	160	0.29		
CR-Eastern - 2	DMM Deep Soil Mixer	Bore Drill Rig	62.9	50	1	Diesel	522	0.5		
CR-Eastern - 2	DMM Grout Mix Plant	Other Industrial Equipmen	62.9	50	1	Diesel	500	0.34		
CR-Eastern - 2	Portable 90 Kw Diesel	Generators	30	50	<1	Diesel Tier 4	158	0.74		
CR-Eastern - 2	Case 590 SupN Loader	Rubber Tired Loaders	62.9	50	1	Diesel	110	0.36		
CR-Eastern - 2	Water Pump 4" Electric	Pumps	62.9	50	1	Diesel	10	0.74		
CR-Eastern - 3	CAT CB-634D Vibratory 84"	Rollers	581	148	4	Diesel	145	0.38		
CR-Eastern - 3	CAT Grader 16H	Graders	581	148	4	Diesel	285	0.41		
CR-Eastern - 3	CAT D8 Dozer	Crawler Tractor	581	148	4	Diesel	328	0.43		
CR-Eastern - 4	CAT Hyd Excavator 1CY	Excavator	4.5	12	0	Diesel	138	0.38		
CR-Eastern - 4	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	4.5	12	0	Diesel or Hybrid	130	0.36		
CR-Eastern - 6	1600 CFM Compressor Diesel	Air Compressor	163.5	40	4	Diesel Tier 4	540	0.48		
CR-Eastern - 6	Hydraulic 55 Ton Crane	Crane	350.6	40	9	Diesel	350	0.29		
CR-Eastern - 6	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	163.5	40	4	Diesel or Hybrid	130	0.36		
CR-Eastern - 6	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	163.5	40	4	Diesel	8	0.56		
CR-Eastern - 6	Slurry Wall Techniwell	Pumps	163.5	40	4	Diesel	500	0.74		
CR-Eastern - 6	Manitowoc 777 200 Ton Crane	Crane	350.6	40	9	Diesel	760	0.29		
CR-Eastern - 7	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	178.3	43	4	Diesel or Hybrid	130	0.36		
CR-Eastern - 7	250 CFM Compressor Diesel	Air Compressor	2.5	43	0.1	Diesel Tier 3	75	0.48		
CR-Eastern - 7	CAT Hyd Excavator 1CY	Excavator	356.6	43	8	Diesel	138	0.38		
CR-Eastern - 8	Manitowoc 777 200 Ton Crane	Crane	123.9	40	3	Diesel	760	0.29		
CR-Eastern - 9	Manitowoc 777 200 Ton Crane	Crane	84	14	6	Diesel	760	0.29		
CR-Eastern - 9	Hydraulic 40 Ton Crane	Crane	27.3	14	2	Diesel	300	0.29		
CR-Eastern - 9	Hydraulic 25 Ton Crane	Crane	57.9	14	4	Diesel	100	0.29		
CR-Eastern - 10	Dewater Pump 6"	Pump	302.9	7	43	Diesel	50	0.74		
CR-Eastern - 10	150 KW Diesel Generator	Generator	75.7	7	11	Diesel Tier 4	183	0.74		
CR-Eastern - 10	Hydraulic 15 Ton Crane	Crane	302.9	7	43	Diesel	100	0.29		
CR-Eastern - 11	Manitowoc 777 200 Ton Crane	Crane	66	6	11	Diesel	760	0.29		
CR-Eastern - 11	250 CFM Compressor Diesel	Air Compressor	45.6	6	8	Diesel Tier 3	75	0.48		
CR-Eastern - 11	Trailer Conc Pump 100 CY HR	Pump	45.6	6	8	Diesel	200	0.74		
CR-Eastern - 12	250 CFM Compressor Diesel	Air Compressor	75.1	19	4	Diesel Tier 3	75	0.48		
CR-Eastern - 12	Manitowoc 777 200 Ton Crane	Crane	75.1	19	4	Diesel	760	0.29		
CR-Eastern - 13	Hydraulic 9 Ton Crane	Crane	200.5	75	3	Diesel	85	0.29		
CR-Eastern - 13	250 CFM Compressor Diesel	Air Compressor	482.7	75	6	Diesel Tier 3	75	0.48		
CR-Eastern - 13	Trailer Conc Pump 100 CY HR	Pump	195.8	75	3	Diesel	200	0.74		
CR-Eastern - 13	Manitowoc 777 200 Ton Crane	Crane	37.9	75	1	Diesel	760	0.29		
CR-Eastern - 13	Manitowoc 999-275 Ton Crane	Crane	89.2	75	1	Diesel	900	0.29		
CR-Eastern - 14	Hydraulic 9 Ton Crane	Crane	14	7	2	Diesel	85	0.29		
CR-Eastern - 14	Hydraulic 40 Ton Crane	Crane	14	7	2	Diesel	300	0.29		
CR-Eastern - 14	CAT Forklift 5,500 LB	Aerial Lift	14	7	2	Diesel	63	0.31		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Canal Ranch - Eastern Tunnel Shaft
Options 6A, 6B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
CR-Eastern - 13	Axial Fan 114,000 CFM	45.4	75	50	30
CR-Eastern - 13	400A, Electric Welder	155.1	7	15	332.357

Vehicle Inventory for Canal Ranch - Eastern Tunnel Shaft
Options 6A, 6B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
CR-Eastern - 1	Truck, Flatbed, 10T, Hwy	Grader and Scraper to and from Sacramento	2	4.1	1.0	4	2.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 1	Truck, Flatbed, 10T, Hwy	Crawler Tractor from Sacramento	1	1.0	1.0	1	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 2	Pickup 1/2T 2 WD	Materials from Sacramento	50	62.9	1.0	61	1	Canal Ranch Shaft to/from Sacramento	31	62	Hybrid Gasoline	
CR-Eastern - 2	Truck Flatbed 4 T Highway	Materials from Sacramento	50	62.9	1.0	61	1	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 2	Mechanic Truck	Materials from Sacramento	50	62.9	1.0	61	1	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 2	Mechanic Truck	Materials from Sacramento	50	87.8	1.0	85	2	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 2	Concrete Transit Mix Truck 12cy	Concrete from Sacramento	50	16.5	1.0	16	0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 2	Truck, Flatbed, 10T, Hwy	Crane, Trencher, & Other Equipment to and from Sacramento	2	6.2	1.0	6	3.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 3	Highway Dump Truck 18 CY	Materials from Sacramento	148	581.0	1.0	562	4	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 3	Truck End Dump 16-30cy Hwy	Soil Material in Covered Trucks from Twin Cities Complex	148	738.8	0.4	1705	12	Canal Ranch Shaft to/from Twin Cities Complex	13	26	Diesel	
CR-Eastern - 3	Truck, Flatbed, 10T, Hwy	Grader and Roller to and from Sacramento	2	4.1	1.0	4	2.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 3	Truck, Flatbed, 10T, Hwy	Crawler Tractor to Sacramento	1	1.0	1.0	1	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 4	Truck, Flatbed, 10T, Hwy	Excavator to and from Sacramento	2	2.1	1.0	2	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 4	Truck, Flatbed, 10T, Hwy	Loader from Sacramento	1	1.0	1.0	1	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 5	Truck Flatbed 4 T Highway	Rebar from Sacramento	2	1.0	1.0	1	1	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 5	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road Concrete Batch Plant	2	7.8	0.4	18	9	Canal Ranch Shaft to/from Lambert Road Concrete Batch Plant	13	26	Diesel	
CR-Eastern - 6	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	40	152.9	1.0	148	4	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 6	Truck Flatbed 4 T Highway	Rebar from Sacramento	40	22.7	1.0	22	1	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 6	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road Concrete Batch Plant	40	187.2	0.4	432	11	Canal Ranch Shaft to/from Lambert Road Concrete Batch Plant	13	26	Diesel	
CR-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane and Other Equipment to and from Sacramento	2	4.1	1.0	4	2.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane from Sacramento	1	1.0	1.0	1	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 7	Truck, Flatbed, 10T, Hwy	Loader to Sacramento	1	1.0	1.0	1	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 7	Truck Flatbed 4 T Highway	Rebar from Sacramento	43	1.0	1.0	1	0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 7	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road Concrete Batch Plant	43	3.9	0.4	9	0	Canal Ranch Shaft to/from Lambert Road Concrete Batch Plant	13	26	Diesel	
CR-Eastern - 8	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road Concrete Batch Plant	40	4.8	0.4	11	0	Canal Ranch Shaft to/from Lambert Road Concrete Batch Plant	13	26	Diesel	
CR-Eastern - 9	Truck Flatbed 4 T Highway	Rebar from Sacramento	14	6.2	1.0	6	0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 9	Concrete Transit Mix Truck 12cy	Tremie Concrete from Lambert Road Concrete Batch Plant	14	158.6	0.4	366	26	Canal Ranch Shaft to/from Lambert Road Concrete Batch Plant	13	26	Diesel	
CR-Eastern - 9	Truck, Flatbed, 10T, Hwy	Cranes to and from Sacramento	2	4.1	1.0	4	2.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 10	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	2.1	1.0	2	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 11	Truck Flatbed 4 T Highway	Rebar from Sacramento	6	1.0	1.0	1	0.2	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 11	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road Concrete Batch Plant	6	11.7	0.4	27	5	Canal Ranch Shaft to/from Lambert Road Concrete Batch Plant	13	26	Diesel	
CR-Eastern - 13	Truck Flatbed 4 T Highway	Rebar from Sacramento	75	2.1	1.0	2	0.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 13	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road Concrete Batch Plant	75	85.5	0.5	171	2	Canal Ranch Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
CR-Eastern - 13	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road Concrete Batch Plant	75	44.5	0.5	89	1	Canal Ranch Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
CR-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to Sacramento	2	1.0	1.0	1	0.5	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	2.1	1.0	2	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 14	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	2.1	1.0	2	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 14	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	7	37.9	1.0	37	5	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site										Miles On-Site		
CR-Eastern - 4	CAT 730 Rear Dump	Dumper	12	14.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		70	Diesel or Hybrid	
CR-Eastern - 6	CAT 730 Rear Dump	Dumper	40	186.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		932	Diesel or Hybrid	
CR-Eastern - 6	Articulated Rear Dump 22 CY/CAT 730	Dumper	40	186.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		932	Diesel or Hybrid	
CR-Eastern - 6	Concrete Pump Truck	Off-Highway Truck	40	327.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1638	Diesel	

Employees Required to Canal Ranch - Eastern Tunnel Shaft
Options 6A, 6B

Code	Employee Type	Hours	# WorkDay		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
CR-Eastern - 1	General Foreman	8.46	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 1	Dozer Operator	16.92	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 1	Grader Operator	16.92	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 1	Operator G4 Grade Check	8.46	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 1	Scraper Operator	33.84	10		Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-1						
CR-Eastern - 2	Laborer G2 General	188.7	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 2	Operator G3a Crane	62.9	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 2	Operator G3 BH Loader	62.9	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 2	Operating Engineer	62.9	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 2	Operator G4 Grade Check	62.9	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 2	Operator G4 Heavy Duty Mechanic	62.9	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 2	Operator G2 Plant Operator	125.8	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 2	Teamster G1 Hwy	62.9	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 2	Teamster G2 Hwy	62.9	10		Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-2						
CR-Eastern - 3	Compactor Operator	581	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 3	Dozer Operator	581	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 3	Grade Setter / Checker	581	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 3	Grader Operator	581	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 3	Truck Driver	581	10		Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-3						
CR-Eastern - 4	Carpenter	267.6	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 4	Carpenter Foreman	66.9	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 4	Excavator Operator	4.5	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 4	Lead Miner	4.5	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 4	Loader Operator	4.5	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 4	Miner	4.5	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 4	Shifter	4.5	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 4	Truck Driver	13.6	10		Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-4						
CR-Eastern - 5	General Laborer	8.3	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 5	Carpenter	71.9	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 5	Carpenter Foreman	4.1	10		Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-5						
CR-Eastern - 6	Crane Oiler	350.6	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	General Foreman	327.1	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	General Laborer	1799	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Hyd Crane Operator	350.6	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Iron Worker	1870.1	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Iron Worker Foreman	374	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Lead Miner	163.8	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Loader Operator	163.5	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Mechanic Welder	327.1	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Miner	1310.3	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Shaft Crane Operator	350.6	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Shifter	537.8	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Truck Driver	163.5	24		Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-6						
CR-Eastern - 7	Carpenter	25.1	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 7	Carpenter Foreman	6.3	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 7	Excavator Operator	178.3	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 7	General Foreman	178.3	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 7	General Laborer	557.1	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 7	Hyd Track Drill		24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 7	Hydraulic Excavator to 3.5		24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 7	Iron Worker	38.4	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 7	Iron Worker Foreman	9.6	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 7	Loader Operator	178.3	24		Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-7						
CR-Eastern - 8	Shaft Crane Operator	123.9	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 8	Toplander	123.9	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 8	Crane Oiler	123.9	24		Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-8						
CR-Eastern - 9	Bottomlander	84	24		Sacramento to/from Canal Ranch Shaft	31

CR-Eastern - 9	Hyd Crane Operator	85.2	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 9	Iron Worker	890.4	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 9	Iron Worker Foreman	111.3	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 9	Lead Miner	14.5	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 9	Miner	338.4	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 9	Shaft Crane Operator	84	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 9	Shifter	41.7	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 9	Toplander	193.1	24	Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-9					
CR-Eastern - 10	Hyd Crane Operator	75.7	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 10	Lead Miner	75.7	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 10	Miner	605.7	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 10	Shifter	75.7	24	Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-10					
CR-Eastern - 11	Bottomlander	39.4	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Crane Oiler	26.7	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Electrician	6.2	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Iron Worker	163.5	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Iron Worker Foreman	20.4	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Lead Miner	45.6	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Mechanic Welder	45.6	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Miner	405.5	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Shaft Crane Operator	66	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Shifter	45.6	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Toplander	66	10	Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-11					
CR-Eastern - 12	Bottomlander	75.1	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 12	Crane Oiler	75.1	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 12	Iron Worker	600.9	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 12	Iron Worker Foreman	75.1	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 12	Shaft Crane Operator	75.1	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 12	Toplander	75.1	10	Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-12					
CR-Eastern - 13	Bottomlander	38	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Concrete Pump Operator	40.7	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Crane Oiler	127	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Electrician	200.5	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Hyd Crane Operator	200.5	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Lead Miner	482.7	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Mechanic / Welder	597	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Miner	3165.4	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Shaft Crane Operator	127	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Shifter	482.7	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Toplander	127	10	Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-13					
CR-Eastern - 14	Bullgang Foreman	37.9	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 14	Bullgang Laborer	75.7	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 14	Mechanic / Welder	37.9	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 14	Hyd Crane Operator	75.7	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 14	Flat Truck Driver	37.9	10	Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-14					

Marine Inventory for Canal Ranch - Eastern Tunnel Shaft
Options 6A, 6B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Canal Ranch - Eastern Tunnel Shaft
Options 6A, 6B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Canal Ranch - Eastern Tunnel Shaft
Options 6A, 6B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Canal Ranch - Eastern Tunnel Shaft
Options 6A, 6B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
CR-Eastern - 1	10.6	2	5	4262.6	2131						
CR-Eastern - 3		148				25570	173				
CR-Eastern - 4		12		297	25						
CR-Eastern - 5		2									
CR-Eastern - 6		40		4095	102						
CR-Eastern - 7		43									
CR-Eastern - 8		40		13633	341						

**Demolition Assumptions for Canal Ranch - Eastern Tunnel Shaft
Options 6A, 6B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Charter Way Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Excavation	CWPR-1	11/1/2026	11/12/2026	10	5	10
Culvert Pipe	CWPR-2	11/13/2026	11/13/2026	1	1	10
Subdrain System	CWPR-3	11/16/2026	11/16/2026	1	1	10
Road Base	CWPR-4	11/17/2026	11/19/2026	3	3	10
Asphalt Paving	CWPR-5	11/20/2026	11/24/2026	5	5	10
Electrical, Striping, and K-Rail Installation	CWPR-6	11/25/2026	11/25/2026	1	5	10

Acres2.4

Construction Schedule for Terminous Island - Eastern Access Road

Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX G- ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	TI-E Access -1	3/30/2026	4/1/2026	3	3	10
Culvert Pipe	TI-E Access -2	4/2/2026	4/2/2026	1	1	10
Subdrain System	TI-E Access -3	4/3/2026	4/10/2026	6	5	10
Road Base	TI-E Access -4	4/13/2026	4/14/2026	2	2	10
Asphalt	TI-E Access -5	4/15/2026	4/20/2026	5	5	10
KRail and Signs	TI-E Access -6	4/21/2026	4/27/2026	5	5	10

Acres

4.8

Construction Schedule for Terminous - Eastern Tunnel Shaft						
Options 6A, 6B						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Clear and Grub	TI-Eastern - 1	5/14/2031	5/20/2031	5	5	10
Ground Improvement	TI-Eastern - 2	5/21/2031	6/10/2031	15	5	10
Raise Shaft Pad	TI-Eastern - 3	11/12/2031	9/2/2032	211	5	10
Excavate, Set Strips, & Place Guide Wall	TI-Eastern - 4	9/3/2032	9/3/2032	1	1	10
Place Guide Walls Concrete	TI-Eastern - 5	9/21/2032	9/22/2032	2	2	10
Excavate Slurry Wall & Place Concrete & Rebar	TI-Eastern - 6	9/23/2032	11/1/2032	40	7	24
Slurry Wall including Strip Forms and Place Rebar & Top Beam	TI-Eastern - 7	11/2/2032	12/14/2032	43	7	24
Excavate Shaft	TI-Eastern - 8	12/15/2032	7/27/2033	225	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	TI-Eastern - 9	12/15/2032	2/10/2033	58	7	24
Dewater Shaft	TI-Eastern - 10	2/11/2033	2/17/2033	7	7	24
Place TBM Cradle Rebar and Cradle Pour	TI-Eastern - 11	2/18/2033	2/25/2033	6	5	10
Breakout Slurry Wall for TBM	TI-Eastern - 12	2/28/2033	3/24/2033	19	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	TI-Eastern - 13	3/25/2033	5/5/2033	30	5	10
Place Shaft Cover	TI-Eastern - 14	9/28/2033	10/8/2033	8	5	10
Total Site Acres	13.3					

Offroad Equipment (Fossil Fuel) Inventory for Terminus - Eastern Tunnel Shaft
Options 6A, 6B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (If known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (If known)
TI-Eastern - 1	CAT D8 Dozer	Crawler Tractor	31.08	5	6	Diesel Tier 4 or Hybrid Dese	179	0.43		
TI-Eastern - 1	CAT Grader 16H - 16' Blade	Grader	31.08	5	6	Diesel	285	0.41		
TI-Eastern - 1	623G Scraper Elevate 21 CY	Scraper	62.16	5	12	Diesel	359	0.48		
TI-Eastern - 3	CAT CB-634D Vibratory 84"	Rollers	1306.9	211	6	Diesel	145	0.38		
TI-Eastern - 3	CAT Grader 16H	Graders	1306.9	211	6	Diesel	285	0.41		
TI-Eastern - 3	CAT D8 Dozer	Crawler Tractor	1306.9	211	6	Diesel	328	0.43		
TI-Eastern - 4	CAT Hyd Excavator 1CY	Excavator	4.5	1	5	Diesel	138	0.38		
TI-Eastern - 4	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	4.5	1	5	Diesel or Hybrid	130	0.36		
TI-Eastern - 6	1600 CFM Compressor Diesel	Air Compressor	187	40	5	Diesel Tier 4	540	0.48		
TI-Eastern - 6	Hydraulic 55 Ton Crane	Crane	374	40	9	Diesel	350	0.29		
TI-Eastern - 6	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	187	40	5	Diesel or Hybrid	130	0.36		
TI-Eastern - 6	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	187	40	5	Diesel	8	0.56		
TI-Eastern - 6	Slurry Wall Techniwell	Pumps	187	40	5	Diesel	500	0.74		
TI-Eastern - 6	Manitowoc 777 200 Ton Crane	Crane	374	40	9	Diesel	760	0.29		
TI-Eastern - 7	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	178.3	43	4	Diesel or Hybrid	130	0.36		
TI-Eastern - 7	250 CFM Compressor Diesel	Air Compressor	18.5	43	0.4	Diesel Tier 3	75	0.48		
TI-Eastern - 7	Hydraulic Excavator to 3.5	Excavator	178.3	43	4	Diesel	138	0.38		
TI-Eastern - 7	CAT Hyd Excavator 1CY	Excavator	194.3	43	5	Diesel	138	0.38		
TI-Eastern - 7	Hydraulic 9 Ton Crane	Crane	16	43	0	Diesel	85	0.38		
TI-Eastern - 7	Hydraulic 40 Ton Crane	Crane	16	43	0	Diesel	300	0.38		
TI-Eastern - 7	CAT Forklift 5,500 LB	Aerial Lifts	16	43	0	Diesel	63	0.31		
TI-Eastern - 8	Manitowoc 777 200 Ton Crane	Crane	142.2	225	1	Diesel	760	0.29		
TI-Eastern - 9	Manitowoc 777 200 Ton Crane	Crane	84	58	1	Diesel	760	0.29		
TI-Eastern - 9	Hydraulic 40 Ton Crane	Crane	27.3	58	0	Diesel	300	0.29		
TI-Eastern - 9	Hydraulic 25 Ton Crane	Crane	57.9	58	1	Diesel	100	0.29		
TI-Eastern - 10	Dewater Pump 6"	Pump	302.9	7	43	Diesel	50	0.74		
TI-Eastern - 10	150 KW Diesel Generator	Generator	75.8	7	11	Diesel Tier 4	183	0.74		
TI-Eastern - 10	Hydraulic 15 Ton Crane	Crane	75.8	7	11	Diesel	100	0.29		
TI-Eastern - 11	Manitowoc 777 200 Ton Crane	Crane	26.9	6	4	Diesel	760	0.29		
TI-Eastern - 11	250 CFM Compressor Diesel	Air Compressor	6.2	6	1	Diesel Tier 3	75	0.48		
TI-Eastern - 11	Trailer Conc Pump 100 CY HR	Pump	6.2	6	1	Diesel	200	0.74		
TI-Eastern - 12	250 CFM Compressor Diesel	Air Compressor	227.1	19	12	Diesel Tier 3	75	0.48		
TI-Eastern - 12	Manitowoc 777 200 Ton Crane	Crane	227.1	19	12	Diesel	760	0.29		
TI-Eastern - 13	250 CFM Compressor Diesel	Air Compressor	513.3	30	17	Diesel Tier 3	75	0.48		
TI-Eastern - 13	Trailer Conc Pump 100 CY HR	Pump	257.4	30	9	Diesel	200	0.74		
TI-Eastern - 13	Manitowoc 777 200 Ton Crane	Crane	77.2	30	3	Diesel	760	0.29		
TI-Eastern - 13	Manitowoc 999-275 Ton Crane	Crane	436.1	30	15	Diesel	900	0.29		
TI-Eastern - 14	Hydraulic 9 Ton Crane	Crane	37.9	8	5	Diesel	85	0.29		
TI-Eastern - 14	Hydraulic 40 Ton Crane	Crane	37.9	8	5	Diesel	300	0.29		
TI-Eastern - 14	CAT Forklift 5,500 LB	Aerial Lift	37.9	8	5	Diesel	63	0.31		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Terminous - Eastern Tunnel Shaft
Options 6A, 6B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
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NOT NEEDED

Vehicle Inventory for Terminus - Eastern Tunnel Shaft
Options 6A, 6B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/trip	# of Vehicles/trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
Ti-Eastern - 1	Truck, Flatbed, 10T, Hwy	Scaper to and from Stockton	2	1	0.6	2	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 1	Truck, Flatbed, 10T, Hwy	Dozer and Grader from Stockton	1	1	0.6	2	2.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 3	Highway Dump Truck 18 CY	Materials from Stockton	211	1306.9	0.6	2064	10	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 3	Truck End Dump 16-20cy Hwy	Soil Material in Covered Trucks from Twin Cities Complex	211	3196	0.8	3835	18	Terminus Shaft to/from Twin Cities Complex	25	50	Diesel	
Ti-Eastern - 3	Truck, Flatbed, 10T, Hwy	Rebar to and from Stockton	2	1	0.6	2	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 3	Truck, Flatbed, 10T, Hwy	Dozer and Grader to Stockton	1	1	0.6	2	2.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 4	Truck, Flatbed, 10T, Hwy	Excavator and Loader from Stockton	1	1	0.6	2	2.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 5	Truck Flatbed 4 T Highway	Rebar from Sacramento	2	1	1.3	1	1	Terminus Shaft to/from Sacramento	40	80	Diesel	
Ti-Eastern - 5	Concrete Transit Mix Truck 12cy	Concrete from Lodi	2	8	0.4	18	9	Terminus Shaft to/from Lodi	13	26	Diesel	
Ti-Eastern - 6	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	40	197	1.3	148	4	Terminus Shaft to/from Sacramento	40	80	Diesel	
Ti-Eastern - 6	Truck Flatbed 4 T Highway	Rebar from Sacramento	40	29	1.3	22	1	Terminus Shaft to/from Sacramento	40	80	Diesel	
Ti-Eastern - 6	Concrete Transit Mix Truck 12cy	Concrete from Lodi	40	214	0.4	493	12	Terminus Shaft to/from Lodi	13	26	Diesel	
Ti-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	1	0.6	2	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	1	0.6	1	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 7	Truck, Flatbed, 10T, Hwy	Excavator and Loader to Stockton	1	1	0.6	2	2.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 7	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	1	0.6	1	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 7	Truck, Flatbed, 10T, Hwy	Excavator, Forklift, and Crane from and to Stockton	2	4	0.6	6	3.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 7	Truck Flatbed 4 T Highway	Rebar from Sacramento	43	1	1.3	1	0	Terminus Shaft to/from Sacramento	40	80	Diesel	
Ti-Eastern - 7	Concrete Transit Mix Truck 12cy	Concrete from Lodi	43	4	0.4	9	0	Terminus Shaft to/from Lodi	13	26	Diesel	
Ti-Eastern - 8	Truck Flatbed 4 T Highway	Rebar from Sacramento	225	9	1.3	7	0	Terminus Shaft to/from Sacramento	40	80	Diesel	
Ti-Eastern - 8	Concrete Transit Mix Truck 12cy	Concrete from Lodi	225	210	0.4	484	2	Terminus Shaft to/from Lodi	13	26	Diesel	
Ti-Eastern - 9	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	1	0.6	1	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 9	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	1	0.6	2	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 9	Truck Flatbed 4 T Highway	Rebar from Sacramento	58	8	1.3	6	0	Terminus Shaft to/from Sacramento	40	80	Diesel	
Ti-Eastern - 9	Concrete Transit Mix Truck 12cy	Concrete from Lodi	58	159	0.4	366	6	Terminus Shaft to/from Lodi	13	26	Diesel	
Ti-Eastern - 10	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	1	0.6	2	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 11	Truck Flatbed 4 T Highway	Rebar from Sacramento	6	1	1.3	1	0.2	Terminus Shaft to/from Sacramento	40	80	Diesel	
Ti-Eastern - 11	Concrete Transit Mix Truck 12cy	Concrete from Lodi	6	12	0.4	27	5	Terminus Shaft to/from Lodi	13	26	Diesel	
Ti-Eastern - 12	Truck Flatbed 4 T Highway	Rebar from Sacramento	19	5	1.3	4	0.2	Terminus Shaft to/from Sacramento	40	80	Diesel	
Ti-Eastern - 13	Concrete Transit Mix Truck 12cy	Concrete from Lodi	30	128	0.4	296	10	Terminus Shaft to/from Lodi	13	26	Diesel	
Ti-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	1	0.6	1	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	1	0.6	2	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 14	Truck, Flatbed, 10T, Hwy	Excavator, Forklift, and two Cranes from and to Stockton	2	5	0.6	8	4.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site										Miles On-Site		
Ti-Eastern - 4	CAT 730 Rear Dump	Dumper	1	14.00	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		70	Diesel or Hybrid	
Ti-Eastern - 6	CAT 730 Rear Dump	Dumper	40	187	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		935	Diesel or Hybrid	
Ti-Eastern - 6	Articulated Rear Dump 22 CY/CAT 730	Dumper	40	374	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		1870	Diesel	
Ti-Eastern - 6	Concrete Pump Truck	Off-Highway Truck	43		not applicable	not applicable	not applicable	on-site assume 5 miles/hour		80	Diesel	
Ti-Eastern - 7	Highway Flatbed 10 Ton	Off-Highway Truck	43	16	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		6210	Diesel	
Ti-Eastern - 8	Trucking Off Highway CAT 730	Dumpers	225	1242.05	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		380	Diesel	
Ti-Eastern - 9	Concrete Pump Truck	Off-Highway Truck	58	76	not applicable	not applicable	not applicable	on-site assume 5 miles/hour		190	Diesel	
Ti-Eastern - 14	Halfway Flatbed 10 Ton	Off-Highway Truck	8	37.9	not applicable	not applicable	not applicable	on-site assume 5 miles/hour				

Employees Required to Terminus - Eastern Tunnel Shaft
Options 6A, 6B

Code	Employee Type	Hours	# WorkDay		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
TI-Eastern - 1	General Foreman	15.54	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 1	Dozer Operator	31.08	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 1	Grader Operator	31.08	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 1	Operator G4 Grade Check	15.54	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 1	Scraper Operator	62.16	10		Lodi to/from Terminus Shaft	13
TOTAL TI-Eastern-1						
TI-Eastern - 3	Compactor Operator	1306.9	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 3	Dozer Operator	1306.9	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 3	Grade Setter / Checker	1306.9	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 3	Grader Operator	1306.9	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 3	Truck Driver	1306.9	10		Lodi to/from Terminus Shaft	13
TOTAL TI-Eastern-3						
TI-Eastern - 4	Carpenter	267.6	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 4	Carpenter Foreman	66.9	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 4	Excavator Operator	4.5	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 4	Lead Miner	4.5	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 4	Loader Operator	4.5	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 4	Miner	4.5	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 4	Shifter	4.5	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 4	Truck Driver	13.6	10		Lodi to/from Terminus Shaft	13
TOTAL TI-Eastern-4						
TI-Eastern - 5	Carpenter	71.9	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 5	Carpenter Foreman	18	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 5	General Laborer	8.3	10		Lodi to/from Terminus Shaft	13
TOTAL TI-Eastern-5						
TI-Eastern - 6	Crane Oiler	374	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 6	General Foreman	374	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 6	General Laborer	2057	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 6	Hyd Crane Operator	374	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 6	Iron Worker	1870.2	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 6	Iron Worker Foreman	374	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 6	Lead Miner	187	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 6	Loader Operator	187	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 6	Mechanic Welder	374	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 6	Miner	1496.1	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 6	Shaft Crane Operator	374	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 6	Shifter	561	24		Lodi to/from Terminus Shaft	13
TOTAL TI-Eastern-6						
TI-Eastern - 7	Bullgang Foreman	16	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	Bullgang Laborer	32	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	Carpenter	25.1	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	Carpenter Foreman	6.3	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	Excavator Operator	194.3	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	Flat Truck Driver	16	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	General Foreman	178.3	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	General Laborer	557.1	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	Hyd Crane Operator	32	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	Iron Worker	38.4	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	Iron Worker Foreman	9.6	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	Loader Operator	178.3	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	Mechanic / Welder	16	24		Lodi to/from Terminus Shaft	13
TOTAL TI-Eastern-7						
TI-Eastern - 8	Crane Oiler	142.2	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 8	Diver Contractor	142.2	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 8	Shaft Crane Operator	142.2	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 8	Toplander	142.2	24		Lodi to/from Terminus Shaft	13
TOTAL TI-Eastern-8						
TI-Eastern - 9	Bottomlander	84	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 9	Hyd Crane Operator	85.2	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 9	Iron Worker	890.4	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 9	Iron Worker Foreman	111.3	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 9	Lead Miner	14.5	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 9	Miner	338.4	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 9	Shaft Crane Operator	84	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 9	Shifter	125.8	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 9	Toplander	193.1	24		Lodi to/from Terminus Shaft	13

TOTAL TI-Eastern-9

TI-Eastern - 10	Shifter	75.7	24	Lodi to/from Terminus Shaft	13
TI-Eastern - 10	Lead Miner	75.7	24	Lodi to/from Terminus Shaft	13
TI-Eastern - 10	Miner	605.7	24	Lodi to/from Terminus Shaft	13
TI-Eastern - 10	Hyd Crane Operator	75.7	24	Lodi to/from Terminus Shaft	13

TOTAL TI-Eastern-10

TI-Eastern - 11	Shifter	26.9	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 11	Miner	91.1	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 11	Shaft Crane Operator	26.9	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 11	Toplander	26.9	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 11	Crane Oiler	26.9	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 11	Iron Worker	165.6	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 11	Iron Worker Foreman	20.7	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 11	Lead Miner	6.2	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 11	Mechanic Welder	6.2	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 11	Electrician	6.2	10	Lodi to/from Terminus Shaft	13

TOTAL TI-Eastern-11

TI-Eastern - 12	Shaft Crane Operator	227.1	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 12	Toplander	227.1	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 12	Bottomlander	227.1	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 12	Crane Oiler	227.1	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 12	Iron Worker	1817.1	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 12	Iron Worker Foreman	227.1	10	Lodi to/from Terminus Shaft	13

TOTAL TI-Eastern-12

TI-Eastern - 13	Bottomlander	77	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 13	Concrete Pump Operator	218.1	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 13	Crane Oiler	474	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 13	Lead Miner	513.3	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 13	Mechanic / Welder	295.3	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 13	Miner	4031	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 13	Shaft Crane Operator	513	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 13	Shifter	513	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 13	Toplander	513	10	Lodi to/from Terminus Shaft	13

TOTAL TI-Eastern-13

TI-Eastern - 14	Bullgang Foreman	37.9	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 14	Bullgang Laborer	37.9	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 14	Mechanic / Welder	37.9	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 14	Hyd Crane Operator	75.7	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 14	Flat Truck Driver	37.9	10	Lodi to/from Terminus Shaft	13

TOTAL TI-Eastern-14

Marine Inventory for Terminous - Eastern Tunnel Shaft
Options 6A, 6B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Terminous - Eastern Tunnel Shaft
Options 6A, 6B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Terminous - Eastern Tunnel Shaft
Options 6A, 6B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Terminus - Eastern Tunnel Shaft
Options 6A, 6B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
Ti-Eastern - 1	13.3	5	3								
Ti-Eastern - 3		211				57521	273				
Ti-Eastern - 4		1		297	297						
Ti-Eastern - 5		2									
Ti-Eastern - 6		40		4675	117						
Ti-Eastern - 8		225		15664	70						

**Demolition Assumptions for Terminous - Eastern Tunnel Shaft
Options 6A, 6B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for King Island - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX G - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Road Base	KI-E Access -1	2/9/2027	2/11/2027	4	4	10
12 month maintenance	KI-E Access -2	4/4/2028	4/14/2028	9	5	10
12 month maintenance	KI-E Access -3	4/4/2029	4/14/2029	9	5	10

Acres0.2

Construction Schedule for King I - Eastern Tunnel Shaft						
Options 6A, 6B						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMAKION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Clear and Grub	KI-Eastern - 1	2/27/2030	3/19/2030	15	5	10
Ground Improvement	KI-Eastern - 2	4/10/2030	5/14/2030	25	5	10
Raise Shaft Pad	KI-Eastern - 3	5/15/2030	5/13/2031	263	5	10
Excavate, Set Strips, & Place Guide Wall	KI-Eastern - 4	5/14/2031	5/29/2031	12	5	10
Place Guide Walls Concrete	KI-Eastern - 5	5/30/2031	6/2/2031	4	4	10
Excavate Slurry Wall & Place Concrete & Rebar	KI-Eastern - 6	6/3/2031	7/10/2031	38	7	24
Slurry Wall including Strip Forms and Place Rebar	KI-Eastern - 7	7/11/2031	8/22/2031	43	7	24
Excavate Shaft	KI-Eastern - 8	8/25/2031	10/1/2031	38	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	KI-Eastern - 9	10/2/2031	10/15/2031	14	7	24
Dewater Shaft	KI-Eastern - 10	10/16/2031	10/22/2031	7	7	24
Place TBM Cradle Rebar and Cradle Pour	KI-Eastern - 11	10/23/2031	10/30/2031	6	5	10
Breakout Slurry Wall for TBM	KI-Eastern - 12	10/31/2031	11/26/2031	19	5	10
Assemble & Place Buttress, Form, & Concrete for	KI-Eastern - 13	10/31/2031	2/19/2032	70	5	10
Place Shaft Cover	KI-Eastern - 14	2/19/2032	2/27/2032	6	5	10
Total Site Acres	12					

Offroad Equipment (Fossil Fuel) Inventory for King I - Eastern Tunnel Shaft
Options 6A, 6B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
KI-Eastern - 1	CAT D8 Dozer	Crawler Tractor	22.26	15	1	Diesel Tier 4 or Hybrid Diesel	179	0.43		
KI-Eastern - 1	CAT Grader 16H - 16' Blade	Grader	22.26	15	1	Diesel	285	0.41		
KI-Eastern - 1	623G Scraper Elevate 21 CY	Scraper	44.52	15	3	Diesel	359	0.48		
KI-Eastern - 3	CAT CB-634D Vibratory 84"	Rollers	1587.9	263	6	Diesel	145	0.38		
KI-Eastern - 3	CAT Grader 16H	Graders	1587.9	263	6	Diesel	285	0.41		
KI-Eastern - 3	CAT D8 Dozer	Crawler Tractor	1587.9	263	6	Diesel	328	0.43		
KI-Eastern - 4	CAT Hyd Excavator 1CY	Excavator	4.5	12	0	Diesel	138	0.38		
KI-Eastern - 4	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	4.5	12	0	Diesel or Hybrid	130	0.36		
KI-Eastern - 6	1600 CFM Compressor Diesel	Air Compressor	159.8	38	4	Diesel Tier 4	540	0.48		
KI-Eastern - 6	Hydraulic 55 Ton Crane	Crane	159.8	38	4	Diesel	350	0.29		
KI-Eastern - 6	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	159.8	38	4	Diesel or Hybrid	130	0.36		
KI-Eastern - 6	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	159.8	38	4	Diesel	8	0.56		
KI-Eastern - 6	Slurry Wall Techniwell	Pumps	159.8	38	4	Diesel	500	0.74		
KI-Eastern - 6	Manitowoc 777 200 Ton Crane	Crane	319.5	38	8	Diesel	760	0.29		
KI-Eastern - 7	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	178.3	43	4	Diesel or Hybrid	130	0.36		
KI-Eastern - 7	250 CFM Compressor Diesel	Air Compressor	3	43	0.1	Diesel Tier 3	75	0.48		
KI-Eastern - 7	Hydraulic Excavator to 3.5	Excavator	178.3	43	4	Diesel	138	0.38		
KI-Eastern - 7	CAT Hyd Excavator 1CY	Excavator	178.3	43	4	Diesel	138	0.38		
KI-Eastern - 8	Manitowoc 777 200 Ton Crane	Crane	132.4	38	3	Diesel	760	0.29		
KI-Eastern - 9	Manitowoc 777 200 Ton Crane	Crane	84	14	6	Diesel	760	0.29		
KI-Eastern - 9	Hydraulic 40 Ton Crane	Crane	27.3	14	2	Diesel	300	0.29		
KI-Eastern - 9	Hydraulic 25 Ton Crane	Crane	57.9	14	4	Diesel	100	0.29		
KI-Eastern - 10	Dewater Pump 6"	Pump	302.9	7	43	Diesel	50	0.74		
KI-Eastern - 10	150 KW Diesel Generator	Generator	75.7	7	11	Diesel Tier 4	183	0.74		
KI-Eastern - 10	Hydraulic 15 Ton Crane	Crane	75.7	7	11	Diesel	100	0.29		
KI-Eastern - 11	Manitowoc 777 200 Ton Crane	Crane	26.7	6	4	Diesel	760	0.29		
KI-Eastern - 11	250 CFM Compressor Diesel	Air Compressor	6.2	6	1	Diesel Tier 3	75	0.48		
KI-Eastern - 11	Trailer Conc Pump 100 CY HR	Pump	6.2	6	1	Diesel	200	0.74		
KI-Eastern - 12	250 CFM Compressor Diesel	Air Compressor	89.9	19	5	Diesel Tier 3	75	0.48		
KI-Eastern - 12	Manitowoc 777 200 Ton Crane	Crane	89.9	19	5	Diesel	760	0.29		
KI-Eastern - 13	250 CFM Compressor Diesel	Air Compressor	530	70	8	Diesel Tier 3	75	0.48		
KI-Eastern - 13	Trailer Conc Pump 100 CY HR	Pump	243.2	70	3	Diesel	200	0.74		
KI-Eastern - 13	Manitowoc 777 200 Ton Crane	Crane	77.2	70	1	Diesel	760	0.29		
KI-Eastern - 13	Manitowoc 999-275 Ton Crane	Crane	97.2	70	1	Diesel	900	0.29		
KI-Eastern - 13	Hydraulic 9 Ton Crane	Crane	200.5	70	3	Diesel	85	0.29		
KI-Eastern - 14	Hydraulic 9 Ton Crane	Crane	30.3	6	5	Diesel	85	0.29		
KI-Eastern - 14	Hydraulic 40 Ton Crane	Crane	30.3	6	5	Diesel	300	0.29		
KI-Eastern - 14	CAT Forklift 5,500 LB	Aerial Lift	30.3	6	5	Diesel	63	0.31		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for King Island - Eastern Tunnel Shaft
Options 6A, 6B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
KI-13	400A, Electric Welder	155.1	70	15	33.236
KI-13	Axial Fan 114,000 CFM	45.4	70	50	32

Vehicle Inventory for King Island - Eastern Tunnel Shaft
Options 6A, 6B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
KI-Eastern - 1	Truck, Flatbed, 10T, Hwy	Scraper to and from Stockton	2	0.9	0.4	2	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 1	Truck, Flatbed, 10T, Hwy	Dozer and Grader from Stockton	1	0.4	0.4	1	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 2	Truck, Flatbed, 10T, Hwy	Materials from Stockton	25	22.5	0.4	52	2.1	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 3	Highway Dump Truck 18 CY	Materials from Stockton	263	1436.1	0.4	3314	13	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 3	Truck/ End Dump/ 16-20cy/ Hwy	Soil Material in Covered Trucks from Twin Cities Complex	263	4035.2	0.9	4656	18	King I Shaft to/from Twin Cities Complex	26	52	Diesel	
KI-Eastern - 3	Truck, Flatbed, 10T, Hwy	Roller to and from Stockton	2	0.9	0.4	2	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 3	Truck, Flatbed, 10T, Hwy	Dozer and Grader to Stockton	1	0.4	0.4	1	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern -4	Truck, Flatbed, 10T, Hwy	Excavator and Loader from Stockton	1	0.9	0.4	2	2.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern -4	Truck Flatbed 4 T Highway	Rebar from Sacramento	12	1.4	1.4	1	0	King I Shaft to/from Sacramento	43	86	Diesel	
KI-Eastern -4	Concrete Transit Mix Truck/ 12cy	Concrete from Lambert Rd	12	19.9	0.9	23	2	King I Shaft to/from Lambert Road Concrete Batch Plant	26	52	Diesel	
KI-Eastern -5	Truck Flatbed 4 T Highway	Rebar from Sacramento	4	1.4	1.4	1	0	King I Shaft to/from Sacramento	43	86	Diesel	
KI-Eastern -5	Concrete Transit Mix Truck/ 12cy	Concrete from Lambert Rd	4	15.6	0.9	18	5	King I Shaft to/from Lambert Road Concrete Batch Plant	26	52	Diesel	
KI-Eastern - 6	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	38	212.1	1.4	148	4	King I Shaft to/from Sacramento	43	86	Diesel	
KI-Eastern - 6	Truck Flatbed 4 T Highway	Rebar from Sacramento	38	25.8	1.4	18	0	King I Shaft to/from Sacramento	43	86	Diesel	
KI-Eastern - 6	Concrete Transit Mix Truck/ 12cy	Concrete from Lambert Rd	38	364.0	0.9	420	11	King I Shaft to/from Lambert Road Concrete Batch Plant	26	52	Diesel	
KI-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	0.9	0.4	2	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	0.4	0.4	1	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern -7	Truck, Flatbed, 10T, Hwy	Excavator and Loader to Stockton	1	0.9	0.4	2	2.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern -7	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	0.4	0.4	1	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern -7	Truck Flatbed 4 T Highway	Rebar from Sacramento	43	1.4	1.4	1	0	King I Shaft to/from Sacramento	43	86	Diesel	
KI-Eastern -7	Concrete Transit Mix Truck/ 12cy	Concrete from Lambert Rd	43	7.8	0.9	9	0	King I Shaft to/from Lambert Road Concrete Batch Plant	26	52	Diesel	
KI-Eastern - 9	Truck Flatbed 4 T Highway	Rebar from Sacramento	14	8.6	1.4	6	0	King I Shaft to/from Sacramento	43	86	Diesel	
KI-Eastern - 9	Concrete Transit Mix Truck/ 12cy	Concrete from Lambert Rd	14	317.2	0.9	366	26	King I Shaft to/from Lambert Road Concrete Batch Plant	26	52	Diesel	
KI-Eastern - 9	Truck, Flatbed, 10T, Hwy	Two Cranes to and from Stockton	2	1.7	0.4	4	2.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 10	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	0.9	0.4	2	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 11	Truck Flatbed 4 T Highway	Rebar from Sacramento	6	1.4	1.4	1	0.2	King I Shaft to/from Sacramento	43	86	Diesel	
KI-Eastern - 11	Concrete Transit Mix Truck/ 12cy	Concrete from Lambert Rd	6	23.4	0.9	27	5	King I Shaft to/from Lambert Road Concrete Batch Plant	26	52	Diesel	
KI-Eastern - 12	Truck Flatbed 4 T Highway	Rebar from Sacramento	19	2.9	1.4	2	0.1	King I Shaft to/from Sacramento	43	86	Diesel	
KI-Eastern - 12	Concrete Transit Mix Truck/ 12cy	Concrete from Lambert Rd	19	23.4	0.9	27	1	King I Shaft to/from Lambert Road Concrete Batch Plant	26	52	Diesel	
KI-Eastern - 13	Concrete Transit Mix Truck/ 12cy	Concrete from Stockton	70	91.9	0.9	106	2	King I Shaft to/from Lambert Road Concrete Batch Plant	26	52	Diesel	
KI-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	0.4	0.4	1	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	0.9	0.4	2	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 14	Truck, Flatbed, 10T, Hwy	Forklift from and to Stockton	1	0.9	0.4	2	2.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 14	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	0.4	0.4	1	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 14	Truck, Flatbed, 10T, Hwy	Materials from Stockton	6	0.4	0.4	1	0.2	King I Shaft to/from Stockton	13	26	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site												
											Miles On-Site	
KI-Eastern - 3	Highway Dump Truck 18 CY	Dumper	263	1587.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		7940	Diesel	
KI-Eastern -4	CAT 730 Rear Dumbo	Dumper	12	14.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		70	Diesel or Hybrid	
KI-Eastern - 6	CAT 730 Rear Dumbo	Dumper	38	182.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		911	Diesel or Hybrid	
KI-Eastern - 6	Articulated Rear Dump 22 CY/CAT 730	Dumper	38	159.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		799	Diesel or Hybrid	
KI-Eastern - 6	Concrete Pumbo Truck	Off-Highway Truck	38	319.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1598	Diesel	
KI-Eastern - 14	Highway Flatbed 10 Ton	Off-Highway Truck	6	30.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		300	Diesel	

Employees Required to King Island - Eastern Tunnel Shaft
Options 6A, 6B

Code	Employee Type	Hours	# WorkDay		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
KI-Eastern - 1	General Foreman	11.13	10		Stockton to/from King I Shaft	13
KI-Eastern - 1	Dozer Operator	22.26	10		Stockton to/from King I Shaft	13
KI-Eastern - 1	Grader Operator	22.26	10		Stockton to/from King I Shaft	13
KI-Eastern - 1	Operator G4 Grade Check	11.13	10		Stockton to/from King I Shaft	13
KI-Eastern - 1	Scraper Operator	44.52	10		Stockton to/from King I Shaft	13
TOTAL KI-Eastern-1						
KI-Eastern - 3	Grade Setter / Checker	1587.9	10		Stockton to/from King I Shaft	13
KI-Eastern - 3	Compactor Operator	1587.9	10		Stockton to/from King I Shaft	13
KI-Eastern - 3	Dozer Operator	1587.9	10		Stockton to/from King I Shaft	13
KI-Eastern - 3	Grader Operator	1587.9	10		Stockton to/from King I Shaft	13
KI-Eastern - 3	Truck Driver	1587.9	10		Stockton to/from King I Shaft	13
TOTAL KI-Eastern-3						
KI-Eastern - 4	Carpenter	267.6	10		Stockton to/from King I Shaft	13
KI-Eastern - 4	Carpenter Foreman	66.9	10		Stockton to/from King I Shaft	13
KI-Eastern - 4	Excavator Operator	4.5	10		Stockton to/from King I Shaft	13
KI-Eastern - 4	Lead Miner	4.5	10		Stockton to/from King I Shaft	13
KI-Eastern - 4	Loader Operator	4.5	10		Stockton to/from King I Shaft	13
KI-Eastern - 4	Miner	4.5	10		Stockton to/from King I Shaft	13
KI-Eastern - 4	Shifter	4.5	10		Stockton to/from King I Shaft	13
KI-Eastern - 4	Truck Driver	13.6	10		Stockton to/from King I Shaft	13
TOTAL KI-Eastern-4						
KI-Eastern - 5	General Laborer	8.3	10		Stockton to/from King I Shaft	13
KI-Eastern - 5	Carpenter	71.9	10		Stockton to/from King I Shaft	13
KI-Eastern - 5	Carpenter Foreman	18	10		Stockton to/from King I Shaft	13
TOTAL KI-Eastern-5						
KI-Eastern - 6	Crane Oiler	319.5	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	General Foreman	319.5	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	General Laborer	1757.3	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Hyd Crane Operator	319.5	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Iron Worker	1597.6	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Iron Worker Foreman	319.5	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Lead Miner	319.5	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Loader Operator	319.5	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Mechanic Welder	319.5	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Miner	1278.1	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Shaft Crane Operator	319.5	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Shifter	379.3	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Truck Driver	182.1	24		Stockton to/from King I Shaft	13
TOTAL KI-Eastern-6						
KI-Eastern - 7	Carpenter	27.9	24		Stockton to/from King I Shaft	13
KI-Eastern - 7	Carpenter Foreman	7	24		Stockton to/from King I Shaft	13
KI-Eastern - 7	Excavator Operator	178.3	24		Stockton to/from King I Shaft	13
KI-Eastern - 7	General Foreman	178.3	24		Stockton to/from King I Shaft	13
KI-Eastern - 7	General Laborer	557.2	24		Stockton to/from King I Shaft	13
KI-Eastern - 7	Iron Worker	33.3	24		Stockton to/from King I Shaft	13
KI-Eastern - 7	Iron Worker Foreman	8.3	24		Stockton to/from King I Shaft	13
KI-Eastern - 7	Loader Operator	178.3	24		Stockton to/from King I Shaft	13
TOTAL KI-Eastern-7						
KI-Eastern - 8	Crane Oiler	132.4	24		Stockton to/from King I Shaft	13
KI-Eastern - 8	Shaft Crane Operator	132.4	24		Stockton to/from King I Shaft	13
KI-Eastern - 8	Toplander	132.4	24		Stockton to/from King I Shaft	13
TOTAL KI-Eastern-8						
KI-Eastern - 9	Bottomlander	84	24		Stockton to/from King I Shaft	13
KI-Eastern - 9	Hyd Crane Operator	85.2	24		Stockton to/from King I Shaft	13
KI-Eastern - 9	Iron Worker	890.4	24		Stockton to/from King I Shaft	13
KI-Eastern - 9	Iron Worker Foreman	111.3	24		Stockton to/from King I Shaft	13
KI-Eastern - 9	Lead Miner	14.5	24		Stockton to/from King I Shaft	13
KI-Eastern - 9	Miner	338.4	24		Stockton to/from King I Shaft	13
KI-Eastern - 9	Shaft Crane Operator	84	24		Stockton to/from King I Shaft	13
KI-Eastern - 9	Shifter	125.8	24		Stockton to/from King I Shaft	13
KI-Eastern - 9	Toplander	193.1	24		Stockton to/from King I Shaft	13
TOTAL KI-Eastern-9						
KI-Eastern - 10	Hyd Crane Operator	75.7	24		Stockton to/from King I Shaft	13
KI-Eastern - 10	Lead Miner	75.7	24		Stockton to/from King I Shaft	13
KI-Eastern - 10	Miner	605.7	24		Stockton to/from King I Shaft	13

KI-Eastern - 10	Shifter	75.7	24	Stockton	to/from King I Shaft	13
TOTAL KI-Eastern-10						
KI-Eastern - 11	Crane Oiler	26.7	10	Stockton	to/from King I Shaft	13
KI-Eastern - 11	Electrician	6.2	10	Stockton	to/from King I Shaft	13
KI-Eastern - 11	Iron Worker	164.5	10	Stockton	to/from King I Shaft	13
KI-Eastern - 11	Iron Worker Foreman	20.4	10	Stockton	to/from King I Shaft	13
KI-Eastern - 11	Lead Miner	6.2	10	Stockton	to/from King I Shaft	13
KI-Eastern - 11	Mechanic Welder	6.2	10	Stockton	to/from King I Shaft	13
KI-Eastern - 11	Miner	90.6	10	Stockton	to/from King I Shaft	13
KI-Eastern - 11	Shaft Crane Operator	26.7	10	Stockton	to/from King I Shaft	13
KI-Eastern - 11	Shifter	26.7	10	Stockton	to/from King I Shaft	13
KI-Eastern - 11	Toplander	26.7	10	Stockton	to/from King I Shaft	13
TOTAL KI-Eastern-11						
KI-Eastern - 12	Bottomlander	89.9	10	Stockton	to/from King I Shaft	13
KI-Eastern - 12	Crane Oiler	89.9	10	Stockton	to/from King I Shaft	13
KI-Eastern - 12	Iron Worker	718.8	10	Stockton	to/from King I Shaft	13
KI-Eastern - 12	Iron Worker Foreman	89.9	10	Stockton	to/from King I Shaft	13
KI-Eastern - 12	Shaft Crane Operator	89.9	10	Stockton	to/from King I Shaft	13
KI-Eastern - 12	Toplander	89.9	10	Stockton	to/from King I Shaft	13
TOTAL KI-Eastern-12						
KI-Eastern - 13	Bottomlander	77	10	Stockton	to/from King I Shaft	13
KI-Eastern - 13	Concrete Pump Operator	48.7	10	Stockton	to/from King I Shaft	13
KI-Eastern - 13	Crane Oiler	135	10	Stockton	to/from King I Shaft	13
KI-Eastern - 13	Electrician	201	10	Stockton	to/from King I Shaft	13
KI-Eastern - 13	Hyd Crane Operator	201	10	Stockton	to/from King I Shaft	13
KI-Eastern - 13	Lead Miner	530	10	Stockton	to/from King I Shaft	13
KI-Eastern - 13	Mechanic / Welder	636.4	10	Stockton	to/from King I Shaft	13
KI-Eastern - 13	Miner	3544	10	Stockton	to/from King I Shaft	13
KI-Eastern - 13	Shaft Crane Operator	174	10	Stockton	to/from King I Shaft	13
KI-Eastern - 13	Shifter	530	10	Stockton	to/from King I Shaft	13
KI-Eastern - 13	Toplander	174	10	Stockton	to/from King I Shaft	13
TOTAL KI-Eastern-13						
KI-Eastern - 14	Bullgang Foreman	30.3	10	Stockton	to/from King I Shaft	13
KI-Eastern - 14	Bullgang Laborer	60.6	10	Stockton	to/from King I Shaft	13
KI-Eastern - 14	Mechanic / Welder	30.3	10	Stockton	to/from King I Shaft	13
KI-Eastern - 14	Hyd Crane Operator	60.6	10	Stockton	to/from King I Shaft	13
KI-Eastern - 14	Flat Truck Driver	30.3	10	Stockton	to/from King I Shaft	13
TOTAL KI-Eastern-14						

Marine Inventory for King I - Eastern Tunnel Shaft
Options 6A, 6B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for King I - Eastern Tunnel Shaft
Options 6A, 6B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

Helicopter Inventory for King I - Eastern Tunnel Shaft
Options 6A, 6B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for King 1 - Eastern Tunnel Shaft
Options 6A, 6B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
KI-Eastern - 1	12	15	1								
KI-Eastern - 3		263				69828	266				
KI-Eastern - 4		12		297	25						
KI-Eastern - 5		4									
KI-Eastern - 6		38		3989	105						
KI-Eastern - 7		43									
KI-Eastern - 8		38		14572	383						

**Demolition Assumptions for King I - Eastern Tunnel Shaft
Options 6A, 6B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Lower Roberts I Levee - Eastern
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX G - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Construct Levee	LR I Levee-E -1	9/13/2028	11/21/2028	49	5	10

Construction Schedule for Lower Roberts I - Eastern Access Road**Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B****THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX G - ATTACHMENT 1**

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	Lower Roberts I - E Access -1	5/12/2026	6/5/2026	19	5	10
Embankment	Lower Roberts I - E Access -2	6/8/2026	7/15/2026	28	5	10
Culvert Pipe	Lower Roberts I - E Access -3	7/16/2026	7/21/2026	5	5	10
Bridge over Turner Cut	Lower Roberts I - E Access -4	7/16/2026	8/27/2026	31	5	10
Subdrain System	Lower Roberts I - E Access -5	7/22/2026	9/15/2026	40	5	10
Road Base	Lower Roberts I - E Access -6	9/16/2026	10/21/2026	26	5	10
Bridge over Burns Cut	Lower Roberts I - E Access -7	9/16/2026	2/8/2027	104	5	10
Asphalt Paving	Lower Roberts I - E Access -8	1/5/2027	2/8/2027	25	5	10
KRail and Signs	Lower Roberts I - E Access -9	2/10/2027	2/11/2027	2	2	10
Intermediate Overlay	Lower Roberts I - E Access -10	4/15/2030	5/10/2030	20	5	10
Final Overlay	Lower Roberts I - E Access -11	12/6/2038	12/20/2038	11	5	10

Acres**31**

Construction Schedule for Lower Roberts I Railroad - Eastern Access
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX G - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Track	LRI RR - Eastern Access -1	7/5/2027	9/9/2027	49	5	10

PLEASE NOTE THAT BRIDGES OVER BURNS AND TURNER CUTS WOULD BE A ROADWAY & RAILROAD BRIDGE. CONSTRUCTION OF BRIDGE INCLUDED IN LOWER ROBERTS ISLAND - EASTERN ACCESS ROAD. THIS WORKBOOK INCLUDES CONSTRUCTION OF RAILROAD ON LOWER ROBERTS ISLAND.

**Construction Schedule for Lower Roberts Island - Eastern Tunnel Shaft
Options 6A, 6B**

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Embankment	LRI-Eastern - 1	5/18/2027	6/4/2027	14	5	10
Subdrain	LRI-Eastern - 2	6/7/2027	7/2/2027	20	5	10
Mobilize	LRI-Eastern - 3	7/19/2028	9/12/2028	39	5	10
Management, Engineering, & Field Labor	LRI-Eastern - 4	7/19/2028	10/24/2035	1896	5	10
Clear and Grub	LRI-Eastern - 5	9/13/2028	10/10/2028	19	5	10
Grading, & Compaction at Shaft & Segment Storage Area	LRI-Eastern - 6	10/3/2029	10/30/2029	20	5	10
		10/10/2029	8/12/2030	220	5	
Ground Improvement, Grading, & Compaction at RTM Storage Area	LRI-Eastern - 7					10
Raise Shaft Pad	LRI-Eastern - 8	3/14/2029	2/26/2030	250	5	10
Excavate, Set Strips, & Concrete for Shaft & Segment Areas	LRI-Eastern - 9	10/31/2029	12/18/2029	35	5	10
Place Guide Walls Concrete	LRI-Eastern - 10	2/27/2030	3/22/2030	18	5	10
Excavate Slurry Wall, Place Concrete & Rebar, Slurry Wall, Remove		3/25/2030	7/18/2030	85	5	10
Guide Wall, & add Top Beam	LRI-Eastern - 11					
Excavate Shaft	LRI-Eastern - 12	7/19/2030	10/16/2030	66	5	10
Place Tremie Seal Rebar, Cooling Pipes, & Seal	LRI-Eastern - 13	10/17/2030	11/13/2030	28	7	24
Dewater Shaft	LRI-Eastern - 14	11/14/2030	11/20/2030	10	7	24
Place TBM Cradle Rebar and Cradle Pour	LRI-Eastern - 15	11/21/2030	12/3/2030	9	5	10
Breakout Slurry Wall for TBM	LRI-Eastern - 16	12/4/2030	12/31/2030	20	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	LRI-Eastern - 17	1/1/2031	3/25/2031	60	5	10
Erect Gantry Crane	LRI-Eastern - 18	3/26/2031	4/16/2031	16	5	10
TBM Assembly including Shaft Utilities	LRI-Eastern - 19	4/17/2031	12/3/2031	165	5	10
Tunneling Operations including Equipment Delivery	LRI-Eastern - 20	4/17/2031	8/9/2035	1318	6	20
Remove TBM and Tunnel Equipment	LRI-Eastern - 21	8/9/2035	10/24/2035	77	5	10
Final Access to RTM Storage Area	LRI-Eastern - 22	10/24/2035	10/29/2035	5	5	10
Site Restoration	LRI-Eastern - 23	10/26/2035	5/13/2036	144	5	10

Total Site Acres

407

**Offroad Equipment (Fossil Fuel) Inventory for Lower Roberts Island - Eastern Tunnel Shaft
Options 6A, 6B**

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
LRI-Eastern - 1	CAT D6LGPDozer w winch	Crawler Tractor	131	14	9	Diesel or Hybrid	179	0.43		
LRI-Eastern - 1	Disk, Towed	Off-Highway Tractor	131	14	9	Diesel	140	0.44		
LRI-Eastern - 1	CAT 14 M	Grader	65.5	14	5	Diesel	274	0.41		
LRI-Eastern - 1	Water Pump 4" Electric	Pumps	15.72	14	1	Diesel	10	0.74		
LRI-Eastern - 1	CAT 825, Roller	Rollers	131	14	9	Diesel	315	0.38		
LRI-Eastern - 2	CAT LOADER/HOE 416 E	Rubber Tired Loader	49.13	20	2	Diesel	78	0.36		
LRI-Eastern - 2	Compactor, Trench Roller, Vib 32"w	Roller	98.25	20	5	Diesel	20	0.38		
LRI-Eastern - 3	Hydraulic 9 Ton Crane	Crane	400	39	10	Diesel	85	0.29		
LRI-Eastern - 3	Hydraulic 40 Ton Crane	Crane	400	39	10	Diesel	300	0.29		
LRI-Eastern - 3	CAT Forklift 5,500 LB	Aerial Lift	400	39	10	Diesel	63	0.31		
LRI-Eastern - 5	CAT D8 Dozer	Crawler Tractor	1015.8	19	53	Diesel Tier 4 or Hybrid Diesel	179	0.43		
LRI-Eastern - 5	Grader 16H - 16' Blade	Grader	1015.8	19	53	Diesel	285	0.41		
LRI-Eastern - 5	623G Scraper Elevate 21 CY	Scaper	2031.5	19	107	Diesel	359	0.48		
LRI-Eastern - 6	CAT 825H Compactor	Rollers	120	20	6	Diesel	145	0.38		
LRI-Eastern - 6	CAT CB-634D Vibratory 84"	Rollers	120	20	6	Diesel	315	0.38		
LRI-Eastern - 6	CAT Grader 16H	Grader	120	20	6	Diesel	285	0.41		
LRI-Eastern - 6	CAT 980 Loader 7.5 CY	Grader	120	20	6	Diesel	285	0.41		
LRI-Eastern - 6	CAT D8 Dozer	Crawler Tractor	120	20	6	Diesel Tier 4 or Hybrid Diesel	179	0.43		
LRI-Eastern - 7	Air Compressor 375 CFM	Air Compressor	3547	220	16	Diesel Tier 4	122	0.48		
LRI-Eastern - 7	Grove RT Crane 30T	Crane	3547	220	16	Diesel	160	0.29		
LRI-Eastern - 7	DMM Deep Soil Mixer	Bore Drill Rig	3547	220	16	Diesel	522	0.5		
LRI-Eastern - 7	DMM Grout Mix Plant	Other Industrial Equipmen	3547	220	16	Diesel	500	0.34		
LRI-Eastern - 7	Portable 90 Kw Diesel	Generators	220	220	1	Diesel Tier 4	158	0.74		
LRI-Eastern - 7	Case 590 SupN Loader	Rubber Tired Loaders	3547	220	16	Diesel	110	0.36		
LRI-Eastern - 7	Water Pump 4" Electric	Pumps	3547	220	16	Diesel	10	0.74		
LRI-Eastern - 7	CAT 825H Compactor	Rollers	202	220	1	Diesel	145	0.38		
LRI-Eastern - 7	CAT CB-634D Vibratory 84"	Rollers	202	220	1	Diesel	315	0.38		
LRI-Eastern - 7	CAT Grader 16H	Grader	202	220	1	Diesel	285	0.41		
LRI-Eastern - 7	CAT 980 Loader 7.5 CY	Grader	202	220	1	Diesel	285	0.41		
LRI-Eastern - 7	CAT D8 Dozer	Crawler Tractor	202	220	1	Diesel Tier 4 or Hybrid Diesel	179	0.43		
LRI-Eastern - 7	Hydraulic 9 Ton Crane	Crane	375	220	2	Diesel	85	0.29		
LRI-Eastern - 8	CAT CB-634D Vibratory 84"	Rollers	3775.6	250	15	Diesel	145	0.38		
LRI-Eastern - 8	CAT Grader 16H	Graders	3775.6	250	15	Diesel	285	0.41		
LRI-Eastern - 8	CAT D8 Dozer	Crawler Tractor	3775.6	250	15	Diesel	328	0.43		
LRI-Eastern - 9	Hydraulic 9 Ton Crane	Crane	226.5	35	6	Diesel	85	0.29		
LRI-Eastern - 10	CAT Hyd Excavator 1CY	Excavator	9.2	18	1	Diesel	138	0.38		
LRI-Eastern - 10	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	9.2	18	1	Diesel or Hybrid	130	0.36		
LRI-Eastern - 11	Manitowoc 777 200 Ton Crane	Crane	971.8	85	11	Diesel	760	0.29		
LRI-Eastern - 11	1600 CFM Compressor Diesel	Air Compressor	485.9	85	6	Diesel Tier 4	540	0.48		
LRI-Eastern - 11	Hydraulic 55 Ton Crane	Crane	971.8	85	11	Diesel	350	0.29		
LRI-Eastern - 11	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	849.4	85	10	Diesel or Hybrid	130	0.36		
LRI-Eastern - 11	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	485.9	85	6	Diesel	8	0.56		
LRI-Eastern - 11	Slurry Wall Techniwell	Pumps	485.9	85	6	Diesel	500	0.74		
LRI-Eastern - 11	CAT Hyd Excavator 1CY	Excavator	378.8	85	4	Diesel	138	0.38		
LRI-Eastern - 11	Hydraulic Excavator to 3.5 tons = Kobe	Excavator	363.5	85	4	Diesel	345	0.38		
LRI-Eastern - 11	250 CFM Compressor Diesel	Air Compressor	28.7	85	0	Diesel Tier 3	75	0.48		
LRI-Eastern - 11	Hydraulic 9 Ton Crane	Crane	15.3	85	0	Diesel	85	0.29		
LRI-Eastern - 11	Hydraulic 40 Ton Crane	Crane	15.3	85	0	Diesel	300	0.29		
LRI-Eastern - 11	CAT Forklift 5,500 LB	Aerial Lift	15.3	85	0	Diesel	63	0.31		
LRI-Eastern - 12	Manitowoc 777 200 Ton Crane	Crane	629.5	66	10	Diesel	760	0.29		
LRI-Eastern - 13	Manitowoc 777 200 Ton Crane	Crane	222.9	28	8	Diesel	760	0.29		
LRI-Eastern - 13	Hydraulic 40 Ton Crane	Crane	76.5	28	3	Diesel	300	0.29		
LRI-Eastern - 13	Hydraulic 25 Ton Crane	Crane	190	28	7	Diesel	100	0.29		
LRI-Eastern - 14	Hydraulic 15 Ton Crane	Crane	95.7	10	10	Diesel	85	0.29		
LRI-Eastern - 14	Dewater Pump 6"	Pump	382.6	10	38	Diesel	50	0.74		
LRI-Eastern - 14	150 KW Diesel Generator	Generator	95.7	10	10	Diesel Tier 4	183	0.74		
LRI-Eastern - 15	Manitowoc 777 200 Ton Crane	Crane	88.3	9	10	Diesel	760	0.29		
LRI-Eastern - 15	250 CFM Compressor Diesel	Air Compressor	20.4	9	2	Diesel Tier 3	75	0.48		
LRI-Eastern - 15	Trailer Conc Pump 100 CY HR	Pump	20.4	9	2	Diesel	200	0.74		
LRI-Eastern - 16	Manitowoc 777 200 Ton Crane	Crane	269.2	20	13	Diesel	760	0.29		
LRI-Eastern - 16	250 CFM Compressor Diesel	Air Compressor	269.2	20	13	Diesel Tier 3	75	0.48		
LRI-Eastern - 17	Manitowoc 777 200 Ton Crane	Crane	498.2	60	8	Diesel	760	0.29		
LRI-Eastern - 17	250 CFM Compressor Diesel	Air Compressor	651.2	60	11	Diesel Tier 3	75	0.48		
LRI-Eastern - 17	Trailer Conc Pump 100 CY HR	Pump	360.4	60	6	Diesel	200	0.74		
LRI-Eastern - 17	Manitowoc 999-275 Ton Crane	Crane	275.5	60	5	Diesel	900	0.29		
LRI-Eastern - 18	Hydraulic 25 Ton Crane	Crane	160	16	10	Diesel	100	0.29		
LRI-Eastern - 18	Truck Crane Lattice Boom 90T	Crane	160	16	10	Diesel Tier 4	300	0.29		
LRI-Eastern - 18	1600 CFM Compressor Diesel	Air Compressor	160	16	10	Diesel Tier 4	540	0.48		
LRI-Eastern - 18	Telescope RT Forklift 5500	Forklift	160	16	10	Diesel	63	0.2		
LRI-Eastern - 18	Heavy Duty Mechanic Welder	Welder	160	16	10	Diesel	400	0.45		
LRI-Eastern - 19	250 CFM Compressor Diesel	Air Compressor	1932	165	12	Diesel Tier 3	75	0.48		
LRI-Eastern - 19	Hydraulic 40 Ton Crane	Crane	756	165	5	Diesel	300	0.29		
LRI-Eastern - 20	Hydraulic 9 Ton Crane	Crane	9579.8	1318	7	Diesel	85	0.29		
LRI-Eastern - 20	Hydraulic 40 Ton Crane	Crane	9579.8	1318	7	Diesel	300	0.29		
LRI-Eastern - 20	CAT Forklift 5,500 LB	Aerial Lift	9579.8	1318	7	Diesel	63	0.31		

LRI-Eastern - 20	CAT 980 Loader 7.5 CY	Grader	31661.4	1318	24	Diesel	285	0.41
LRI-Eastern - 20	250 CFM Compressor Diesel	Air Compressor	19519.4	1318	15	Diesel Tier 3	75	0.48
LRI-Eastern - 20	Grout Pump	Cement & Mortar Mix	600.5	1318	0	Diesel	500	0.56
LRI-Eastern - 20	Grout Mixer	Cement & Mortar Mix	600.5	1318	0	Diesel	70	0.56
LRI-Eastern - 20	Manitowoc 777 200 Ton Crane	Crane	31516	1318	24	Diesel	760	0.29
LRI-Eastern - 21	Manitowoc 777 200 Ton Crane	Crane	715	77	9	Diesel	760	0.29
LRI-Eastern - 21	Hydraulic 55 Ton Crane	Crane	715	77	9	Diesel	350	0.29
LRI-Eastern - 21	CAT Forklift 5,500 LB	Aerial Lift	729.9	77	9	Diesel	63	0.31
LRI-Eastern - 21	1600 CFM Compressor Diesel	Air Compressor	100	77	1	Diesel Tier 4	540	0.48
LRI-Eastern - 21	Hydraulic 25 Ton Crane	Crane	100	77	1	Diesel	100	0.29
LRI-Eastern - 21	Truck Crane Lattice Boom 90T	Crane	100	77	1	Diesel Tier 4	300	0.29
LRI-Eastern - 21	Heavy Duty Mechanic Welder	Welder	100	77	1	Diesel	400	0.45
LRI-Eastern - 22	CAT D6LGPDozer w winch	Crawler Tractor	20	5	4	Diesel or Hybrid	179	0.43
LRI-Eastern - 22	CAT 14 M	Grader	20	5	4	Diesel	274	0.41
LRI-Eastern - 22	Water Pump 4" Electric	Pumps	20	5	4	Diesel	10	0.74
LRI-Eastern - 22	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	20	5	4	Diesel	158	0.38
LRI-Eastern - 22	Cat 613 C Self Loading Scraper	Scraper	40	5	8	Diesel	187	0.48
LRI-Eastern - 23	CAT 390 MASS EXC	Excavator	330	144	2	Diesel	534	0.38
LRI-Eastern - 23	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	990	144	7	Diesel	345	0.38
LRI-Eastern - 23	CAT 12 M	Grader	40	144	0	Diesel	173	0.41
LRI-Eastern - 23	CAT D9R, Dozer w ripper	Crawler Tractor	100	144	1	Diesel	410	0.43
LRI-Eastern - 23	Cat 6 mgal w/ CAT 725 Tractor, 320hp	Crawler Tractor	416.5	144	3	Diesel	320	0.43
LRI-Eastern - 23	Farm Tractor, All Wheel Drive, 285 HP	Off-Highway Tractor	153	144	1	Diesel	80	0.44
LRI-Eastern - 23	Disk, Towed	Off-Highway Tractor	13	144	0	Diesel	140	0.44
LRI-Eastern - 23	CAT 966 GII Wheel Loader	Rubber Tired Loader	10	144	0	Diesel	170	0.36
LRI-Eastern - 23	CAT D8Rii, Dozer w winch	Crawler Tractor	760	144	5	Diesel	310	0.43
LRI-Eastern - 23	CAT 631G Scraper, Conventional	Scraper	760	144	5	Diesel	515	0.48
LRI-Eastern - 23	Hydro Mulcher, 18 HP	Pump	110	144	1	Diesel	25	0.29

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Lower Roberts Island - Eastern Tunnel Shaft
Options 6A, 6B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
LRI-Eastern - 19	Gantry Crane	966	165	0.25	1
LRI-Eastern - 19	Axial Fan 114,000 CFM	2286	165	50	693
LRI-Eastern - 20	Axial Fan 114,000 CFM	177919	1318	50	6,750
LRI-Eastern - 21	Gantry Crane	629.9	77	0.25	2
LRI-Eastern - 1	Light Plant, 4 lite, 1000w	524	14		

Electricity for TBM Operations included in the Summary Workbook

Vehicle Inventory for Lower Roberts Island - Eastern Tunnel Shaft
Options 6A, 6B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
LRI-Eastern - 1	Pickup, 1/2T, 2wd	Materials from Stockton	14	131.5	0.6	208	14.8	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 1	Truck, Flatbed, 10T, Hwy	Two Tractors, Grader, and Roller from and to Stockton	2	5.1	0.6	8	4.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 2	Truck, Flatbed, 10T, Hwy	Loader and Roller from and to Stockton	2	2.5	0.6	4	2.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 3	Truck, Flatbed, 10T, Hwy	Materials from Stockton	39	400.0	0.6	632	16.2	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 3	Truck, Flatbed, 10T, Hwy	Two Cranes and Forklift from and to Stockton	2	3.8	0.6	6	3.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 3	Truck, Flatbed, 10T, Hwy	Materials from Stockton	39	10.1	0.6	16	0.4	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 5	Truck, Flatbed, 10T, Hwy	Dozer and Grader from Stockton	1	1.3	0.6	2	2.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 5	Truck, Flatbed, 10T, Hwy	Scraper from and to Stockton	2	1.3	0.6	2	1.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 5	Truck, Flatbed, 10T, Hwy	Materials from Stockton	19	105.8	0.6	167	8.8	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 6	Truck, Flatbed, 10T, Hwy	Two Rollers and Grader from Stockton	1	3.8	0.6	6	6.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 7	Pickup 1/2T 2 WD	Materials from Stockton	230	3547.0	0.6	5601	25.5	Lower Roberts 1 Shaft to/from Stockton	19	38	Hybrid Gasoline	
LRI-Eastern - 7	Truck Flatbed 4 T Highway	Materials from Stockton	220	3547.0	0.6	5601	25.5	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 7	Mechanic Truck	Materials from Stockton	220	3547.0	0.6	5601	25.5	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 7	Truck, Flatbed, 10T, Hwy	Grader and Roller to Stockton	1	1.3	0.6	2	2.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 7	Truck, Flatbed, 10T, Hwy	Two Cranes from and to Stockton	2	2.5	0.6	4	2.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 8	Highway Dump Truck 18 CY	Materials from Stockton	250	3775.6	0.6	5961	23.8	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 8	Truck, Flatbed, 10T, Hwy	Tractor, Grader, and Roller to Stockton	1	3.8	0.6	6	6.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 9	Truck Flatbed 4 T Highway	Rebar from Livermore	35	14.4	1.6	9	0.3	Lower Roberts 1 Shaft to/from Livermore	48	96	Diesel	
LRI-Eastern - 9	Concrete Transit Mix Truck 12cy	Concrete from Stockton	35	376.8	0.6	595	17.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 10	Truck, Flatbed, 10T, Hwy	Excavator and Loader from Stockton	1	1.3	0.6	2	2.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 10	Concrete Transit Mix Truck 12cy	Concrete from Stockton	18	15.9	0.5	34	1.9	Lower Roberts 1 Shaft to/from Lodi	14	28	Diesel	
LRI-Eastern - 11	Truck, Flatbed, 10T, Hwy	Materials from Stockton	85	15.3	0.6	24	0.3	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 11	Truck, Flatbed, 10T, Hwy	Three Cranes and Forklift from Stockton	1	1.9	0.6	3	3.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 11	Truck, Flatbed, 10T, Hwy	Excavator, Crane, and Loader to Stockton	1	1.9	0.6	3	3.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 11	Truck Flatbed 4 T Highway	Rebar from Livermore	85	108.8	1.6	68	0.8	Lower Roberts 1 Shaft to/from Livermore	48	96	Diesel	
LRI-Eastern - 11	Concrete Transit Mix Truck 12cy	Concrete from Stockton	85	1446.5	0.6	2284	26.9	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 11	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	85	298.8	1.8	163	1.9	Lower Roberts 1 Shaft to/from Sacramento	55	110	Diesel	
LRI-Eastern - 11	Truck Flatbed 4 T Highway	Materials from Stockton	85	126.7	0.6	200	2.4	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 12	Concrete Transit Mix Truck 12cy	Concrete from Stockton	66	624.5	0.6	986	14.9	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	0.6	0.6	1	1.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 13	Truck Flatbed 4 T Highway	Rebar from Livermore	28	24.0	1.6	15	0.5	Lower Roberts 1 Shaft to/from Livermore	48	96	Diesel	
LRI-Eastern - 13	Concrete Transit Mix Truck 12cy	Concrete from Stockton	28	795.5	0.6	1256	44.9	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 14	Truck, Flatbed, 10T, Hwy	Crane from and to Stockton	2	1.3	0.6	2	1.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 15	Truck Flatbed 4 T Highway	Rebar from Livermore	9	3.2	1.6	2	0.2	Lower Roberts 1 Shaft to/from Livermore	48	96	Diesel	
LRI-Eastern - 15	Concrete Transit Mix Truck 12cy	Concrete from Stockton	9	54.5	0.6	86	9.6	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 16	Truck Flatbed 4 T Highway	Rebar from Livermore	20	8.0	1.6	5	0.3	Lower Roberts 1 Shaft to/from Livermore	48	96	Diesel	
LRI-Eastern - 17	Truck, Flatbed, 10T, Hwy	Crane from and to Stockton	2	1.3	0.6	2	1.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 17	Concrete Transit Mix Truck 12cy	Concrete from Stockton	60	361.0	0.6	570	9.5	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 17	Truck, Flatbed, 10T, Hwy	Pre-Cast Segments from Stockton	60	10510.9	0.6	16596	276.6	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 19	Highway Dump Truck 18 CY	Grout for Pre Cast Segments from Stockton	165	441.4	0.6	697	4.2	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 20	Truck, Flatbed, 10T, Hwy	Two Cranes and Grader to Stockton	2	3.8	0.6	6	3.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 20	Truck, Flatbed, 10T, Hwy	Materials from Stockton	1318	51642.6	0.6	81541	61.9	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 20	Truck, Flatbed, 10T, Hwy	Materials from Stockton	1318	6252.3	0.6	9872	7.5	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 20	Highway Dump Truck 18 CY	Grout for Pre Cast Segments from Stockton	1318	3964.0	0.6	6259	4.7	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 21	Truck, Flatbed, 10T, Hwy	Materials from Stockton	77	479.9	0.6	758	9.8	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 21	Truck, Flatbed, 10T, Hwy	Four Cranes and Forklift to Stockton	2	2.5	0.6	4	2.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 22	Pickup 1/2T 2 WD	Materials from Stockton	5	20.0	0.6	32	6.3	Lower Roberts 1 Shaft to/from Stockton	19	38	Hybrid Gasoline	
LRI-Eastern - 22	Truck, Flatbed, 10T, Hwy	Dozer, Grader, Roller, and Scraper from and to Stockton	2	5.1	0.6	8	4.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 23	Pickup 1/2T 2 WD	Materials from Stockton	144	660.0	0.6	1042	7.2	Lower Roberts 1 Shaft to/from Stockton	19	38	Hybrid Gasoline	
LRI-Eastern - 23	Truck, Flatbed, 10T, Hwy	Scraper, Two Excavators, Grader, Five Tractors, and Loader from and to Stockton	2	11.4	0.6	18	9.0	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 23	Highway Dump Truck 18 CY	Base Rock from Vernalis	144	75.6	0.9	81	0.6	Lower Roberts 1 Shaft to/from Vernalis	28	56	Diesel	
LRI-Eastern - 23	Truck Flatbed 4 T Highway	Materials from Stockton	144	100.1	0.6	158	1.1	Lower Roberts 1 Shaft to/from Stockton	19	38	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site												
LRI-Eastern - 1	Cat 10mpg w/Cat 770, S11HP	Dumpers	14	65.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		328	Diesel	
LRI-Eastern - 2	Truck, End Dump, 10-13cy, Hwy	Dumpers	20	98.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		491	Diesel	
LRI-Eastern - 7	Concrete Pump Truck	Off-Highway Truck	220	464.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2320	Diesel	
LRI-Eastern - 8	Articulated Rear Dump 22 CY/CAT 730	Dumper to move fill on-site	250	5651.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		28258	Diesel or Hybrid	
LRI-Eastern - 10	Articulated Rear Dump 22 CY/CAT 730	Dumper to move fill on-site	18	148.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		742	Diesel or Hybrid	
LRI-Eastern - 11	CAT 730 Rear Dump	Dumper	85	553	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2765	Diesel or Hybrid	
LRI-Eastern - 11	Articulated Rear Dump 22 CY/CAT 730	Dumper	85	486.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2430	Diesel or Hybrid	
LRI-Eastern - 11	Concrete Pump Truck	Off-Highway Truck	85	972.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		4860	Diesel	
LRI-Eastern - 12	CAT 730 Rear Dump	Dumper	66	3440	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		17199	Diesel or Hybrid	
LRI-Eastern - 13	Concrete Pump Truck	Off-Highway Truck	28	197.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		987	Diesel	
LRI-Eastern - 23	CAT 740 40T, Articulated End Dump	Dumper	144	330.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1650	Diesel or Hybrid	
LRI-Eastern - 23	Truck, End Dump, 10-13cy, Hwy	Dumper	144	2640.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		13200	Diesel	

Employees Required to Lower Roberts Island - Eastern Tunnel Shaft
Options 6A, 6B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
LRI-Eastern - 1	Laborer G2 General	15.72	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 1	Operator G5 Compactor w-blade	131	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 1	Operator G4 Dozer & Push Cat	131	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 1	OPERATING ENGINEER FOREMAN	131	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 1	Operator G2 Finish Blade	65.5	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 1	Teamster G3 ED 8-24cy,	65.5				14
LRI-Eastern - 1	Water>7mgal		10		Stockton to/from Lower Roberts I Shaft	
TOTAL LRI-Eastern-1						
LRI-Eastern - 2	Laborer G1 Pipe layers	196.5	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 2	Laborer G1 Power Tamper	98.25	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 2	Operator G3 BH-Loader>3/4cy	49.13	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 2	Teamster G2 Hwy ED 6-8cy,	98.25				14
LRI-Eastern - 2	Water<7mgal		10		Stockton to/from Lower Roberts I Shaft	
TOTAL LRI-Eastern-2						
LRI-Eastern - 3	Bullgang Foreman	400	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 3	Bullgang Laborer	800	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 3	Mechanic / Welder	400	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 3	Hyd Crane Operator	800	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 3	Flat Truck Driver	400	10		Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-3						
LRI-Eastern - 4	Accountant	12364.8	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Concrete Superintendent	6182.4	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Cost Engineer	12364.8	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Electrical Superintendent	12364.8	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	EMT	12364.8	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Environmental Manager	12364.8	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Equipment Superintendent	12364.8	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Field Engineer	9273.6	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	General Superintendent	12364.8	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Geotechnical Manager	12364.8	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Office Administrator	12364.8	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Office Manager	12364.8	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Payroll Clerk	12364.8	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Project Engineer	12364.8	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Project Manager	12364.8	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Purchasing Agent	12364.8	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	QC Manager	12364.8	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	QC Technician	6182.4	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Runner	12364.8	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Safety Engineer	24729.6	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Safety Manager	12364.8	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Schedule Engineer	6182.4	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Shift Engineers	24729.6	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Survey Party Chief	12364.8	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Survey Rod Man	12364.8	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Tunnel Superintendent	12364.8	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Tunnel Walkers	24729.6	10		Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-4						
LRI-Eastern - 5	General Foreman	507.88	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 5	Dozer Operator	1015.76	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 5	Grader Operator	1015.76	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 5	Operator G4 Grade Check	507.88	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 5	Scraper Operator	2031.52	10		Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-5						
LRI-Eastern - 6	Grade Setter / Checker	120	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 6	Loader Operator	120	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 6	General Laborer	240	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 6	Flagger	240	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 6	General Foreman	120	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 6	Compactor Operator	240	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 6	Dozer Operator	120	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 6	Grader Operator	120	10		Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-6						
LRI-Eastern - 7	Laborer G2 General	10641	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Operator G3a Crane	3547	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Operator G3 BH Loader	3547	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Operating Engineer	3547	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Operator G4 Grade Check	3547	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Operator G4 Heavy Duty Mechanic	3547	10		Stockton to/from Lower Roberts I Shaft	14

LRI-Eastern - 7	Operator G2 Plant Operator	7094	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Teamster G1 Hwy	3547	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Teamster G2 Hwy	3547	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Grade Setter / Checker	202	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Water Tanker Off road	202	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Loader Operator	202	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	General Laborer	1074	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Flagger	404	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	General Foreman	202	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Compactor Operator	404	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Dozer Operator	202	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Grader Operator	202	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Hyd Crane Operator	312	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Carpenter	1180	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Carpenter Foreman	179	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Iron Worker Foreman	312	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Iron Worker	3120	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Truck Driver	464	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-7					
LRI-Eastern - 8	Grade Setter / Checker	3775.6	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 8	Compactor Operator	3775.6	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 8	Dozer Operator	3775.6	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 8	Grader Operator	3775.6	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 8	Truck Driver	3775.6	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-8					
LRI-Eastern - 9	Hyd Crane Operator	226.61	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 9	General Laborer	366	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 9	Carpenter	712	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 9	Carpenter Foreman	108	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 9	Iron Worker Foreman	188	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 9	Iron Worker	1885	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 9	Truck Driver	280	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-9					
LRI-Eastern - 10	Carpenter	654.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 10	Carpenter Foreman	163.6	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 10	Excavator Operator	9.2	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 10	General Laborer	15.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 10	Lead Miner	9.2	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 10	Loader Operator	9.2	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 10	Miner	9.2	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 10	Shifter	9.2	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 10	Truck Driver	146.3	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-10					
LRI-Eastern - 11	Bullgang Foreman	15.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Bullgang Laborer	30.6	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Carpenter	81.2	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Carpenter Foreman	20.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Crane Oiler	971.8	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Excavator Operator	378.8	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Flat Truck Driver	15.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	General Foreman	1335.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	General Laborer	6493.6	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Hyd Crane Operator	1002.4	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Iron Worker	4929.2	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Iron Worker Foreman	989.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Lead Miner	485.9	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Loader Operator	849.4	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Mechanic Welder	987.1	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Miner	3887.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Shaft Crane Operator	971.8	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Shifter	1457.7	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Truck Driver	553.9	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-11					
LRI-Eastern - 12	Shaft Crane Operator	629.5	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 12	Toplander	629.5	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 12	Crane Oiler	629.5	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-12					
LRI-Eastern - 13	Bottomlander	222.9	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 13	Hyd Crane Operator	266.5	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 13	Iron Worker	2395.1	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 13	Iron Worker Foreman	299.4	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 13	Lead Miner	47.5	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 13	Miner	978.8	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 13	Shaft Crane Operator	222.9	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 13	Shifter	346.9	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 13	Toplander	529	24	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-13					

LRI-Eastern - 14	Shifter	95.7	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 14	Lead Miner	95.7	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 14	Miner	765.2	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 14	Hyd Crane Operator	95.7	24	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-14					
LRI-Eastern - 15	Crane Oiler	88.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Electrician	20.4	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Iron Worker	543.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Iron Worker Foreman	67.9	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Lead Miner	20.4	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Mechanic Welder	20.4	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Miner	298.8	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Shaft Crane Operator	88.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Shifter	88.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Toplander	88.3	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-15					
LRI-Eastern - 16	Bottomlander	269.2	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 16	Crane Oiler	269.2	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 16	Iron Worker	2153.6	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 16	Iron Worker Foreman	269.2	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 16	Shaft Crane Operator	269.2	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 16	Toplander	269.2	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-16					
LRI-Eastern - 17	Bottomlander	498.2	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Concrete Pump Operator	310.7	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Crane Oiler	723.9	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Electrician	122.4	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Lead Miner	773.6	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Mechanic Welder	463	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Miner	6189	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Shaft Crane Operator	773.6	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Shifter	773.6	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Toplander	773.6	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-17					
LRI-Eastern - 18	Bullgang Foreman	160	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 18	Bullgang Laborer	960	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 18	Mechanic / Welder	160	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 18	Master Mechanic	480	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 18	Shaft Crane Operator	160	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 18	Crane Oiler	160	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 18	Electrician	160	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 18	Hyd Crane Operator	160	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-18					
LRI-Eastern - 19	Bottomlander	966	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Conveyor Belt Man	840	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Crane Oiler	966	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Electrician	3066	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Hyd Crane Operator	756	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Lead Miner	2142	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Mechanic / Welder	3066	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Miner	14363	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Segment Carrier Operator	2016	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Shaft Crane Operator	966	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Shifter	2142	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	ST2G Mucker Operator	336	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	TBM Operator	2352	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Toplander	966	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-19					
LRI-Eastern - 20	Bottomlander	26831.7	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Bullgang Foreman	39611.2	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Bullgang Laborer	103285	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Conveyor Belt Man	22328.9	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Segment Carrier Operator	140582	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Crane Oiler	26831.7	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Electrician	43114.4	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	General Laborer	60700	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Lead Miner	22328.9	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Loader Operator	31661.4	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Man Transport Truck Operator	21031.4	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Master Mechanic	10392.8	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Mechanic / Welder	63087	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Miner	170134	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Shaft Crane Operator	45991.3	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Shifter	22328.9	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	TBM Operator	44657.8	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Toplander	26831.7	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Utility Truck Operator	21031.4	20	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-20					

LRI-Eastern - 21	Bottomlander	1344.9	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Bullgang Foreman	100	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Bullgang Laborer	600	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Crane Oiler	815	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Electrician	2159.9	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Forklift Operator	629.9	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Hyd Crane Operator	815	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Lead Miner	13344.9	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Master Mechanic	300	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Mechanic / Welder	2159.9	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Miner	6339.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Shaft Crane Operator	1444.9	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Shifter	1344.9	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Toplander	1344.9	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Utility Truck Operator	479.9	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-21					
LRI-Eastern - 22	Laborer G2 General	20	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 22	Operator G7 Roller, Compactor	20	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 22	Operator G4 Dozer & Push Cat	20	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 22	Operator G4 Scraper	40	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 22	OPERATING ENGINEER FOREMAN	20	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 22	Operator G4 Grade Check	20	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 22	Operator G2 Finish Blade	20	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 22	Teamster G2 Hwy ED 6-8cy, Water<7	20	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-22					
LRI-Eastern - 23	Laborer G2 General	230	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Laborer G2 Concrete Laborer	990	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Laborer G3 Flagman	780	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Operator G2 Excavator 3.5 to 7.0 cy	1320	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Operator G4 Dozer & Push Cat	860	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Operator G4 Scraper	760	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	OPERATING ENGINEER FOREMAN	384.5	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Operator G2 Finish Blade	40	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Operator G3 Loader >4cy	340	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Operator G6 Tractor	163	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Teamster G4 ED 25-65 Cy	330	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-23					

Marine Inventory for Lower Roberts Island - Eastern Tunnel Shaft
Options 6A, 6B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Lower Roberts Island - Eastern Tunnel Shaft
Options 6A, 6B

Code	# day	Locomotive Type	From Depot Site	Delivery Depot	Rail Cars	Rail Cars/Day	Main Railroad	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (If known)
LRI-Eastern - 19	165	Pre Cast Segment	Stockton	Lower Roberts Island Sidetrack	104	0.63	UPRR & BNSF						
LRI-Eastern - 20	1318	Pre Cast Segment	Stockton	Lower Roberts Island Sidetrack	2489	1.89	UPRR & BNSF						

Helicopter Inventory for Lower Roberts Island - Eastern Tunnel Shaft
Options 6A, 6B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Lower Roberts Island - Eastern Tunnel Shaft
Options 6A, 6B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
LRI-Eastern - 1	407	14	29.1			31440	2246				
LRI-Eastern - 5		19		255972.6	13472						
LRI-Eastern - 6	7	20	0.4								
LRI-Eastern - 7	11.6	220	0.1								
LRI-Eastern - 8		250				166148	665				
LRI-Eastern - 9		35									
LRI-Eastern - 10		18		607	34						
LRI-Eastern - 11		85		12156	143						
LRI-Eastern - 12		66		69238	1049						

**Demolition Assumptions for Lower Roberts Island - Eastern Tunnel Shaft
Options 6A, 6B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Upper Jones Tract - Eastern Access Road

Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX G - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	UJ-E Access -1	4/21/2026	4/21/2026	1	1	10
Embankment	UJ-E Access -2	4/22/2026	4/23/2026	2	2	10
Culvert Pipe	UJ-E Access -3	4/24/2026	4/24/2026	1	1	10
Subdrain System	UJ-E Access -4	4/27/2026	5/4/2026	6	5	10
Road Base	UJ-E Access -5	5/5/2026	5/11/2026	5	5	10
KRail and Signs	UJ-E Access -6	5/12/2026	5/12/2026	1	1	10
12-month - Intermediate Maintenance	UJ-E Access -7	4/4/2028	4/14/2028	9	5	10
12-month - Final Maintenance	UJ-E Access -8	4/4/2029	4/14/2029	9	5	10

Acres

2.2

Construction Schedule for Upper Jones - Eastern Tunnel Shaft						
Options 6A, 6B						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Clear and Grub	UJ-Eastern - 1	3/26/2030	4/16/2030	16	5	10
Ground Improvement	UJ-Eastern - 2	5/7/2030	6/11/2030	26	5	10
Raise Shaft Pad	UJ-Eastern - 3	6/11/2030	6/10/2031	261	5	10
Excavate, Set Strips, & Place Guide Wall	UJ-Eastern - 4	6/10/2031	6/11/2030	2	5	10
Place Guide Walls Concrete	UJ-Eastern - 5	6/26/2031	6/30/2031	5	5	10
Excavate Slurry Wall & Place Concrete & Rebar	UJ-Eastern - 6	6/30/2031	8/7/2031	39	7	24
Slurry Wall including Strip Forms and Place Rebar & Top Beam	UJ-Eastern - 7	8/7/2031	9/19/2031	44	7	24
Excavate Shaft	UJ-Eastern - 8	9/19/2031	10/29/2031	41	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	UJ-Eastern - 9	10/29/2031	11/12/2031	14	7	24
Dewater Shaft	UJ-Eastern - 10	11/12/2031	11/19/2031	8	7	24
Place TBM Cradle Rebar and Cradle Pour	UJ-Eastern - 11	11/19/2031	11/27/2031	7	5	10
Breakout Slurry Wall for TBM	UJ-Eastern - 12	11/27/2031	12/24/2031	21	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	UJ-Eastern - 13	11/27/2031	2/19/2032	61	5	10
Place Shaft Cover	UJ-Eastern - 14	2/19/2032	2/27/2032	7	5	10
Total Site Acres	13.1					

**Offroad Equipment (Fossil Fuel) Inventory for Upper Jones - Eastern Tunnel Shaft
Options 6A, 6B**

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
UJ-Eastern - 1	CAT D8 Dozer	Crawler Tractor	29.16	16	2	Diesel Tier 4 or Hybrid Diesel	179	0.43		
UJ-Eastern - 1	CAT Grader 16H - 16' Blade	Grader	29.16	16	2	Diesel	285	0.41		
UJ-Eastern - 1	623G Scraper Elevate 21 CY	Scraper	58.32	16	4	Diesel	359	0.48		
UJ-Eastern - 2	Air Compressor 375 CFM	Air Compressor	200	26	8	Diesel Tier 4	122	0.48		
UJ-Eastern - 2	Grove RT Crane 30T	Crane	200	26	8	Diesel	160	0.29		
UJ-Eastern - 2	DMM Deep Soil Mixer	Bore Drill Rig	200	26	8	Diesel	522	0.5		
UJ-Eastern - 2	DMM Grout Mix Plant	Other Industrial Equipmen	200	26	8	Diesel	500	0.34		
UJ-Eastern - 2	Portable 90 Kw Diesel	Generators	24	26	1	Diesel Tier 4	158	0.74		
UJ-Eastern - 2	Case 590 SupN Loader	Rubber Tired Loaders	200	26	8	Diesel	110	0.36		
UJ-Eastern - 2	Water Pump 4" Electric	Pumps	492	26	19	Diesel	10	0.74		
UJ-Eastern - 3	CAT CB-634D Vibratory 84"	Rollers	1467.54	261	6	Diesel	145	0.38		
UJ-Eastern - 3	CAT Grader 16H	Graders	1467.54	261	6	Diesel	285	0.41		
UJ-Eastern - 3	CAT D8 Dozer	Crawler Tractor	1467.54	261	6	Diesel	328	0.43		
UJ-Eastern - 4	CAT Hyd Excavator 1CY	Excavator	6.5	2	3	Diesel	138	0.38		
UJ-Eastern - 4	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	6.5	2	3	Diesel or Hybrid	130	0.36		
UJ-Eastern - 6	1600 CFM Compressor Diesel	Air Compressor	270	39	7	Diesel Tier 4	540	0.48		
UJ-Eastern - 6	Hydraulic 55 Ton Crane	Crane	540	39	14	Diesel	350	0.29		
UJ-Eastern - 6	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	270	39	7	Diesel or Hybrid	130	0.36		
UJ-Eastern - 6	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	270	39	7	Diesel	8	0.56		
UJ-Eastern - 6	Slurry Wall Techniwell	Pumps	270	39	7	Diesel	500	0.74		
UJ-Eastern - 6	Manitowoc 777 200 Ton Crane	Crane	345.51	39	9	Diesel	760	0.29		
UJ-Eastern - 7	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	267	44	6	Diesel or Hybrid	130	0.36		
UJ-Eastern - 7	250 CFM Compressor Diesel	Air Compressor	4	44	0.1	Diesel Tier 3	75	0.48		
UJ-Eastern - 7	CAT Hyd Excavator 1CY	Excavator	267	44	6	Diesel	138	0.38		
UJ-Eastern - 8	Manitowoc 777 200 Ton Crane	Crane	231	41	6	Diesel	760	0.29		
UJ-Eastern - 9	Manitowoc 777 200 Ton Crane	Crane	111	14	8	Diesel	760	0.29		
UJ-Eastern - 9	Hydraulic 40 Ton Crane	Crane	36	14	3	Diesel	300	0.29		
UJ-Eastern - 9	Hydraulic 25 Ton Crane	Crane	76.47	14	5	Diesel	100	0.29		
UJ-Eastern - 10	Dewater Pump 6"	Pump	400	8	50	Diesel	50	0.74		
UJ-Eastern - 10	150 KW Diesel Generator	Generator	100	8	13	Diesel Tier 4	183	0.74		
UJ-Eastern - 10	Hydraulic 15 Ton Crane	Crane	100	8	13	Diesel	100	0.29		
UJ-Eastern - 11	Manitowoc 777 200 Ton Crane	Crane	35.2	7	5	Diesel	760	0.29		
UJ-Eastern - 11	250 CFM Compressor Diesel	Air Compressor	8.2	7	1	Diesel Tier 3	75	0.48		
UJ-Eastern - 11	Trailer Conc Pump 100 CY HR	Pump	8.2	7	1	Diesel	200	0.74		
UJ-Eastern - 12	250 CFM Compressor Diesel	Air Compressor	118.67	21	6	Diesel Tier 3	75	0.48		
UJ-Eastern - 12	Manitowoc 777 200 Ton Crane	Crane	118.67	21	6	Diesel	760	0.29		
UJ-Eastern - 13	Hydraulic 9 Ton Crane	Crane	60	61	1	Diesel	85	0.29		
UJ-Eastern - 13	250 CFM Compressor Diesel	Air Compressor	495.19	61	8	Diesel Tier 3	75	0.48		
UJ-Eastern - 13	Trailer Conc Pump 100 CY HR	Pump	321.16	61	5	Diesel	200	0.74		
UJ-Eastern - 13	Manitowoc 777 200 Ton Crane	Crane	102	61	2	Diesel	760	0.29		
UJ-Eastern - 13	Manitowoc 999-275 Ton Crane	Crane	128.33	61	2	Diesel	900	0.29		
UJ-Eastern - 14	Hydraulic 9 Ton Crane	Crane	50	7	7	Diesel	85	0.29		
UJ-Eastern - 14	Hydraulic 40 Ton Crane	Crane	50	7	7	Diesel	300	0.29		
UJ-Eastern - 14	CAT Forklift 5,500 LB	Aerial Lift	50	7	7	Diesel	63	0.31		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Upper Jones - Eastern Tunnel Shaft
Options 6A, 6B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
UJ-Eastern - 13	Axial Fan 114,000 CFM	60	61	50	49

Vehicle Inventory for Upper Jones - Eastern Tunnel Shaft
Options 6A, 6B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/Trip	# of Vehicles Trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
UJ-Eastern - 1	Truck, Flatbed, 10T, Hwy	Scrapper to and from Stockton	2	0.9	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 1	Truck, Flatbed, 10T, Hwy	Dozer and Grader from Stockton	1	0.9	0.4	2	2.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 2	Pickup 1/2T 2 WD	Materials from Stockton	26	492.0	0.4	1135	44	Upper Jones Shaft to/from Stockton	13	26	Hybrid Gasoline	
UJ-Eastern - 2	Truck Flatbed 4 T Highway	Materials from Stockton	26	492.0	0.4	1135	44	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 2	Mechanic Truck	Materials from Stockton	26	492.0	0.4	1135	44	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 2	Truck, Flatbed, 10T, Hwy	Crane, Loader, & Other Equipment to and from Stockton	2	2.6	0.4	6	3.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 3	Highway Dump Truck 18 CY	Materials from Stockton	261	1467.5	0.4	3387	13	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 3	Truck/ End Dump/ 16-20cy/ Hwy	Soil Material in Covered Trucks from Lower Roberts Launch Shaft	261	2153.0	0.5	4306	16	Upper Jones Shaft to/from Lower Roberts Launch Shaft	15	30	Diesel	
UJ-Eastern - 3	Truck, Flatbed, 10T, Hwy	Roller to and from Stockton	2	0.9	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 3	Truck, Flatbed, 10T, Hwy	Dozer and Grader to Stockton	1	0.9	0.4	2	2.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 3	Truck, Flatbed, 10T, Hwy	Materials from Stockton	261	43.8	0.4	101	0.4	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 4	Truck, Flatbed, 10T, Hwy	Excavator and Loader from Stockton	1	0.9	0.4	2	2.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 4	Truck Flatbed 4 T Highway	Rebar from Livermore	2	1.3	1.3	1	1	Upper Jones Shaft to/from Livermore	38	76	Diesel	
UJ-Eastern - 4	Concrete Transit Mix Truck* 12cy	Concrete from Stockton	2	11.3	0.4	26	13	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 5	Truck Flatbed 4 T Highway	Rebar from Livermore	5	1.3	1.3	1	0	Upper Jones Shaft to/from Livermore	38	76	Diesel	
UJ-Eastern - 5	Concrete Transit Mix Truck* 12cy	Concrete from Stockton	5	11.3	0.4	26	5	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 6	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	39	390.0	2.0	195	5	Upper Jones Shaft to/from Sacramento	60	120	Diesel	
UJ-Eastern - 6	Truck Flatbed 4 T Highway	Rebar from Livermore	39	39.3	1.3	31	1	Upper Jones Shaft to/from Livermore	38	76	Diesel	
UJ-Eastern - 6	Concrete Transit Mix Truck* 12cy	Concrete from Stockton	39	308.1	0.4	711	18	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	0.9	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	0.4	0.4	1	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 7	Truck, Flatbed, 10T, Hwy	Excavator and Loader to Stockton	1	0.9	0.4	2	2.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 7	Truck Flatbed 4 T Highway	Rebar from Livermore	44	1.3	1.3	1	0	Upper Jones Shaft to/from Livermore	38	76	Diesel	
UJ-Eastern - 7	Concrete Transit Mix Truck* 12cy	Concrete from Stockton	44	5.2	0.4	12	0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 8	Concrete Transit Mix Truck* 12cy	5000 psi Concrete from Stockton	14	4.8	0.4	11	1	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 9	Truck Flatbed 4 T Highway	Rebar from Livermore	14	8.9	1.3	7	1	Upper Jones Shaft to/from Livermore	38	76	Diesel	
UJ-Eastern - 9	Concrete Transit Mix Truck* 12cy	Concrete from Stockton	14	209.7	0.4	484	35	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 9	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	0.9	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 9	Truck, Flatbed, 10T, Hwy	Cranes from Stockton	1	0.4	0.4	1	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 10	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	0.9	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 11	Truck Flatbed 4 T Highway	Rebar from Livermore	7	1.3	1.3	1	0.1	Upper Jones Shaft to/from Livermore	38	76	Diesel	
UJ-Eastern - 11	Concrete Transit Mix Truck* 12cy	Concrete from Stockton	7	15.2	0.4	35	5	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 13	Truck Flatbed 4 T Highway	Rebar from Livermore	61	2.5	1.3	2	0.0	Upper Jones Shaft to/from Livermore	38	76	Diesel	
UJ-Eastern - 13	Concrete Transit Mix Truck* 12cy	Concrete from Stockton	61	158.2	0.4	365	6	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	0.4	0.4	1	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	0.9	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 14	Truck, Flatbed, 10T, Hwy	Forklift to and from Stockton	2	0.9	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 14	Truck Flatbed 4 T Highway	Materials from Stockton	7	50.0	0.4	115	16	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 14	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	0.4	0.4	1	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
Vehicle Use on Unpaved/Dirty Surface (no access roads at park and ride lots) --- on the Construction Site										Miles On-Site		
UJ-Eastern - 4	CAT 730 Rear Dump	Dumper	2	20.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		100	Diesel or Hybrid	
UJ-Eastern - 6	CAT 730 Rear Dump	Dumper	39	285.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1435	Diesel or Hybrid	
UJ-Eastern - 6	Articulated Rear Dump 22 CY/CAT 730	Dumper	39	251.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1258	Diesel or Hybrid	
UJ-Eastern - 6	Concrete Pumpo Truck	Off-Highway Truck	39	540.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2700	Diesel	
UJ-Eastern - 8	Trucking Off Highway CAT 730	Dumpers	41	1155.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		5775	Diesel	
UJ-Eastern - 9	Concrete Pump Truck	Off-Highway Truck	14	76.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		380	Diesel	

Employees Required to Upper Jones - Eastern Tunnel Shaft
Options 6A, 6B

Code	Employee Type	Hours	# WorkDay		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
UJ-Eastern - 1	General Foreman	14.58	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 1	Dozer Operator	29.16	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 1	Grader Operator	29.16	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 1	Operator G4 Grade Check	14.58	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 1	Scraper Operator	58.32	10		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-1						
UJ-Eastern - 2	Laborer G2 General	1476	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 2	Operator G3a Crane	492	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 2	Operator G3 BH Loader	492	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 2	Operating Engineer	492	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 2	Operator G4 Grade Check	492	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 2	Operator G4 Heavy Duty Mechanic	492	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 2	Operator G2 Plant Operator	984	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 2	Teamster G1 Hwy	492	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 2	Teamster G2 Hwy	492	10		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-2						
UJ-Eastern - 3	Grade Setter / Checker	1467.54	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 3	Water Truck Highway	1467.54	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 3	Compactor Operator	1467.54	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 3	Dozer Operator	1467.54	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 3	Grader Operator	1467.54	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 3	Truck Driver	1467.54	10		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-3						
UJ-Eastern - 4	Shifter	6.5	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 4	Lead Miner	6.5	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 4	Miner	6.5	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 4	Loader Operator	6.5	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 4	Excavator Operator	6.5	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 4	Truck Driver	19.44	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 4	Carpenter	386.4	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 4	Carpenter Foreman	96.6	10		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-4						
UJ-Eastern - 5	General Laborer	11.92	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 5	Carpenter	103.83	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 5	Carpenter Foreman	43.84	10		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-5						
UJ-Eastern - 6	General Laborer	2878.43	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	General Foreman	521.69	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Mechanic Welder	521.69	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Shaft Crane Operator	521.69	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Crane Oiler	521.69	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Truck Driver	503.37	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Shifter	810	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Lead Miner	270	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Miner	2160	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Hyd Crane Operator	540	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Loader Operator	270	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Slurry Wall Consultant	270	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Iron Worker Foreman	540	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Iron Worker	2700	24		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-6						
UJ-Eastern - 7	Hydraulic Excavator to 3.5	267	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 7	Loader Operator	267	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 7	Excavator Operator	267	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 7	Hyd Track Drill	267	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 7	General Laborer	833.68	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 7	General Foreman	267	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 7	Carpenter	40	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 7	Carpenter Foreman	10	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 7	Iron Worker Foreman	12.68	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 7	Iron Worker	50.74	24		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-7						
UJ-Eastern - 8	Diver Contractor	220	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 8	Shaft Crane Operator	231	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 8	Toplander	231	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 8	Crane Oiler	231	24		Stockton to/from Upper Jones Shaft	13

TOTAL UJ-Eastern-8

UJ-Eastern - 9	Diver Contractor	138.74	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 9	Shifter	166.12	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 9	Lead Miner	19.12	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 9	Miner	446.95	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 9	Hyd Crane Operator	112.47	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 9	Toplander	255	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 9	Bottomlander	111	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 9	Shaft Crane Operator	111	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 9	Iron Worker Foreman	147	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 9	Iron Worker	1176	24	Stockton to/from Upper Jones Shaft	13

TOTAL UJ-Eastern-9

UJ-Eastern - 10	Shifter	100	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 10	Lead Miner	100	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 10	Miner	800	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 10	Hyd Crane Operator	100	24	Stockton to/from Upper Jones Shaft	13

TOTAL UJ-Eastern-10

UJ-Eastern - 11	Shifter	35.2	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Miner	119.6	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Shaft Crane Operator	35.2	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Toplander	35.2	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Crane Oiler	35.2	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Iron Worker	216	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Iron Worker Foreman	27	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Lead Miner	8.2	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Mechanic Welder	8.2	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Electrician	8.2	10	Stockton to/from Upper Jones Shaft	13

TOTAL UJ-Eastern-11

UJ-Eastern - 12	Shaft Crane Operator	118.67	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 12	Toplander	118.67	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 12	Bottomlander	118.67	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 12	Crane Oiler	118.67	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 12	Iron Worker	949.36	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 12	Iron Worker Foreman	118.67	10	Stockton to/from Upper Jones Shaft	13

TOTAL UJ-Eastern-12

UJ-Eastern - 13	Shifter	495.19	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Lead Miner	495.19	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Miner	3861.55	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Mechanic / Welder	430.89	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Electrician	264.86	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Hyd Crane Operator	60	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Shaft Crane Operator	230	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Toplander	230	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Bottomlander	102	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Crane Oiler	178	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Concrete Pump Operator	64.3	10	Stockton to/from Upper Jones Shaft	13

TOTAL UJ-Eastern-13

UJ-Eastern - 14	Bullgang Foreman	50	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 14	Bullgang Laborer	100	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 14	Mechanic / Welder	50	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 14	Hyd Crane Operator	100	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 14	Flat Truck Driver	50	10	Stockton to/from Upper Jones Shaft	13

TOTAL UJ-Eastern-14

Marine Inventory for Upper Jones - Eastern Tunnel Shaft
Options 6A, 6B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Upper Jones - Eastern Tunnel Shaft
Options 6A, 6B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Upper Jones - Eastern Tunnel Shaft
Options 6A, 6B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Upper Jones - Eastern Tunnel Shaft Options 6A, 6B

[illegible]

**Demolition Assumptions for Upper Jones - Eastern Tunnel Shaft
Options 6A, 6B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Bethany Park and Ride

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Excavation	BethanyPR-1	10/29/2026	11/3/2026	5	5	10
Culvert Pipe	BethanyPR-2	11/4/2026	11/4/2026	1	1	10
Subdrain System	BethanyPR-3	11/5/2026	11/5/2026	1	1	10
Road Base	BethanyPR-4	11/6/2026	11/9/2026	4	4	10
Asphalt Paving	BethanyPR-5	11/10/2026	11/11/2026	2	2	10
Electrical, Striping, and K-Rail Installation	BethanyPR-6	11/12/2026	11/12/2026	1	1	10

Acres

2.6

Construction Schedule for Byron Park and Ride

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	BPR -1	8/18/2026	9/4/2026	13	5	10
Embankment	BPR -2	9/7/2026	9/8/2026	2	2	10
Culvert Pipe	BPR -3	9/9/2026	9/14/2026	3	3	10
Subdrain System	BPR -4	9/15/2026	9/21/2026	5	5	10
Road Base	BPR -5	9/22/2026	10/8/2026	12	5	10
Asphalt Paving	BPR -6	10/9/2026	10/23/2026	10	5	10
Electrical, Striping, and K-Rail Installation	BPR -7	10/26/2026	10/29/2026	3	3	10

Acres

2.91

Construction Schedule for Bruns Complex Rds - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	BrCmplxRd-C&E Access -1	3/12/2027	3/15/2027	4	4	10
Embankment	BrCmplxRd-C&E Access -2	3/16/2027	3/16/2027	1	1	10
Culvert Pipe	BrCmplxRd-C&E Access -3	3/17/2027	3/17/2027	1	1	10
Bridge over Byron Highway	BrCmplxRd-C&E Access -4	3/17/2027	6/1/2027	54	5	10
Subdrain System	BrCmplxRd-C&E Access -5	3/18/2027	3/22/2027	5	5	10
Road Base	BrCmplxRd-C&E Access -6	3/23/2027	3/24/2027	2	2	10
Asphalt Paving	BrCmplxRd-C&E Access -7	6/2/2027	6/3/2027	2	2	10
KRail and Signs	BrCmplxRd-C&E Access -8	6/4/2027	6/4/2027	1	1	10
Intermediate Overlay	BrCmplxRd-C&E Access -9	5/13/2030	5/14/2030	2	2	10
Final Overlay	BrCmplxRd-C&E Access -10	6/29/2037	7/1/2037	3	3	10

Acres

5.3

Construction Schedule for Discovery Bay Rd Extension - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	DBExt-C&E Access -1	11/10/2026	11/13/2026	4	4	10
Embankment	DBExt-C&E Access -2	11/16/2026	11/20/2026	5	5	10
Culvert Pipe	DBExt-C&E Access -3	11/23/2026	11/24/2026	2	2	10
Subdrain System	DBExt-C&E Access -4	11/25/2026	12/7/2026	10	5	10
Road Base	DBExt-C&E Access -5	12/8/2026	12/22/2026	11	5	10
Asphalt Paving	DBExt-C&E Access -6	12/23/2026	12/30/2026	6	5	10
KRail and Signs	DBExt-C&E Access -7	12/31/2026	12/31/2026	1	1	10
Intermediate Overlay	DBExt-C&E Access -8	5/7/2030	5/8/2030	2	2	10
Final Overlay	DBExt-C&E Access -9	6/8/2037	6/10/2037	3	3	10

Acres

4.6

Construction Schedule for Western Farm Rd - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	WFRd-C&E Access -1	10/9/2026	10/14/2026	5	5	10
Embankment	WFRd-C&E Access -2	10/15/2026	10/19/2026	5	5	10
Culvert Pipe	WFRd-C&E Access -3	10/20/2026	10/20/2026	1	1	10
Subdrain System	WFRd-C&E Access -4	10/21/2026	10/27/2026	5	5	10
Road Base	WFRd-C&E Access -5	10/28/2026	11/9/2026	11	5	10
Asphalt Paving	WFRd-C&E Access -6	11/10/2026	11/17/2026	6	5	10
KRail and Signs	WFRd-C&E Access -7	11/18/2026	11/18/2026	1	1	10
Intermediate Overlay	WFRd-C&E Access -8	5/20/2030	5/21/2030	2	2	10
Final Overlay	WFRd-C&E Access -9	6/10/2037	6/12/2037	3	3	10

Acres

2

Construction Schedule for Southern Complex on Byron Tract - Eastern						
Option 6						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Rail Features in Northern Southern Forebay	SF - Eastern - 1	1/5/2026	10/22/2026	208	5	10
Rail Features in the Southern portion of Southern Forebay	SF - Eastern - 2	1/5/2026	4/2/2027	324	5	10
Rail Yard	SF - Eastern - 3	3/30/2026	3/19/2027	253	5	10
Byron Highway Interchange	SF - Eastern - 4	4/27/2026	3/11/2027	318	5	10
Pumping Plant Initial Site Work	SF - Eastern - 5	6/28/2027	7/22/2027	22	5	10
Pumping Plant Ground Improvement	SF - Eastern - 6	7/9/2027	2/7/2028	154	5	10
Pumping Plant Construction Phase 1	SF - Eastern - 7	3/31/2027	12/18/2029	710	5	10
Pumping Plant Contractor Operations	SF - Eastern - 8	6/8/2027	1/15/2032	1201	5	10
Pumping Plant Substation	SF - Eastern - 9	6/11/2029	4/3/2030	201	5	10
Pumping Plant Structure Phase 1	SF - Eastern - 10	3/17/2027	7/2/2027	72	5	10
Pumping Plant Structure Phase 2	SF - Eastern - 11	6/11/2029	6/27/2030	277	5	10
Pumping Plant Structure Phase 3	SF - Eastern - 12	4/3/2030	2/21/2033	712	5	10
Pumping Plant Wet Well	SF - Eastern - 13	6/28/2030	7/12/20233	794	5	10
Pumping Plant Outlet Structure	SF - Eastern - 14	8/25/2031	2/20/2034	649	5	10
Pumping Plant Dissipation Slab Phase 1A	SF - Eastern - 15A	5/9/2031	5/13/2032	265	5	10
Pumping Plant Dissipation Slab Phase 1B	SF - Eastern - 15B	12/1/2033	3/15/2035	335	5	10
Pumping Plant Electrical Building	SF - Eastern - 16	12/1/2033	6/23/2034	147	5	10
Pumping Plant Generator Building	SF - Eastern - 17	6/23/2034	8/7/2034	33	5	10
Pumping Plant HVAC	SF - Eastern - 18	7/13/2034	8/21/2034	29	5	10
Pumping Plant Finish Site Work	SF - Eastern - 19	6/22/2034	9/17/2035	325	5	10
Pumping Plant Finish Work Phase 1	SF - Eastern - 20	8/11/2032	3/19/2035	680	5	10
Pumping Plant Finish Work Phase 2	SF - Eastern - 21	4/24/2031	9/5/2034	880	5	10
Pumping Plant Pumping Equipment	SF - Eastern - 22	2/6/2035	2/15/2036	269	5	10
Southern Forebay Site Preparation	SF - Eastern - 23	7/21/2027	3/2/2028	160	5	10
Southern Forebay Clear and Grub	SF - Eastern - 24	7/21/2027	3/30/2028	180	5	10
Southern Forebay Foundations	SF - Eastern - 25	11/25/2027	5/29/2029	393	5	10
Southern Forebay Embankments	SF - Eastern - 26	10/16/2029	12/26/1934	1355	5	10
Southern Forebay Soil Materials Handling	SF - Eastern - 27	11/25/2027	8/10/2034	1750	5	10
Southern Forebay Temporary Facilities During Construction	SF - Eastern - 28	5/6/2027	8/7/2035	2154	5	10
Southern Forebay Emnbankment Finish Work	SF - Eastern - 29	12/26/2034	1/11/2036	535	5	10
Southern Forebay Spillway	SF - Eastern - 30	12/19/2033	9/5/2034	186	5	10
Southern Forebay Outlet Structure	SF - Eastern - 31	7/19/2033	2/20/2036	676	5	10
Southern Forebay Inlet Structure	SF - Eastern - 32	9/5/2034	3/14/2035	138	5	10
Tunnel Launch Shaft Site Preparation for Shafts from Southern Forebay to South Delta Conveyance	SF - Eastern - 33	3/21/2029	3/14/2030	255	5	10
Raise Tunnel Eastern Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5E)	SF - Eastern - 34	3/21/2029	1/30/2032	747	5	10
Finalize Tunnel Eastern Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5E)	SF - Eastern - 35	8/16/2030	12/17/2030	90	5	10
Construct Tunnel from Eastern Shaft at Southern Forebay Outlet to South Delta Conveyance (called Shaft 5E)	SF - Eastern - 36	12/18/2030	12/19/2031	313	6	20
Finish Work for Tunnel Eastern Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5E)	SF - Eastern - 37	12/19/2031	2/9/2032	38	5	10
Raise Tunnel Western Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5W)	SF - Eastern - 38	11/28/2029	5/26/2033	391	5	10
Finalize Tunnel Western Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5W)	SF - Eastern - 39	3/28/2031	12/30/2032	460	5	10
Construct Tunnel from Western Shaft at Southern Forebay Outlet to South Delta Conveyance (called Shaft 5W)	SF - Eastern - 40	3/15/2032	4/21/2033	345	6	20
Finish Work for Tunnel Western Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5W)	SF - Eastern - 41	4/21/2033	6/10/2033	37	5	10
Tunnel Launch Shaft Site Preparation for Shaft at Northern portion of Southern Forebay	SF - Eastern - 42	4/3/2029	4/20/2037	2099	5	10
Raise Tunnel Shaft at Northern portion of Southern Forebay	SF - Eastern - 43	1/15/2030	12/13/2030	238	5	10
Finalize Tunnel Shaft at Northern portion of Southern Forebay	SF - Eastern - 44	12/24/2030	4/22/2031	85	5	10
Tunnel Launch Working Shaft Site Preparation at Northern portion of Southern Forebay	SF - Eastern - 45	5/29/2029	1/15/2030	165	5	10
Raise Tunnel Working Shaft at Northern portion of Southern Forebay	SF - Eastern - 46	8/28/2029	5/8/2031	442	5	10
Finalize Tunnel Working Shaft at Northern portion of Southern Forebay	SF - Eastern - 47	5/8/2031	7/14/2031	50	5	10
Construct Tunnel from Southern Forebay to Reception Shaft	SF - Eastern - 48	4/22/2031	1/12/2037	1792	6	20
Finish Work for Tunnel from Southern Forebay to Reception Shaft	SF - Eastern - 49	1/12/2037	4/20/2037	71	5	10
Erect Batch Plant #1	SF - Eastern - 50	3/5/2027	4/30/2027	40	5	10
Erect Batch Plant #2	SF - Eastern - 51	5/8/2029	7/2/2029	85	5	10
Operate Concrete Batch Plant	SF - Eastern - 52	4/30/2027	10/12/2035	2205	5	10
Intermediate Access Road Overlays	SF - Eastern - 53	6/15/2037	6/30/2037	12	5	10
Final Access Road Overlays	SF - Eastern - 54	4/8/2030	4/22/2030	10	5	10
Site Restoration	SF - Eastern - 55	7/3/2035	6/27/2036	257	5	10
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Total Site Acres	1700					
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Vehicle Inventory for Southern Complex on Byron Tract - Eastern

Option 6

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Code	Equipment Name	General Equipment	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
SF - Eastern - 1	Air Compressor 185 cfm	Air Compresso	8.9	208	0.0	Diesel Tier 4	49	0.48		
SF - Eastern - 1	CAT Forklift 5,500 LB	Aerial Lift	799.7	208	3.8	Diesel	63	0.31		
SF - Eastern - 1	Grove RT Crane 30T	Crane	319.9	208	1.5	Diesel	160	0.29		
SF - Eastern - 1	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	4.4	208	0.0	Diesel	75	0.31		
SF - Eastern - 1	Boom Truck, 12.5 Tn Boom	Crane	4.4	208	0.0	Diesel or Hybrid	100	0.29		
SF - Eastern - 2	Air Compressor 185 cfm	Air Compresso	44.4	324	0.1	Diesel Tier 4	49	0.48		
SF - Eastern - 2	Boom Truck, 12.5 Tn Boom	Crane	22.2	324	0.1	Diesel or Hybrid	100	0.29		
SF - Eastern - 2	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	22.2	324	0.1	Diesel	75	0.31		
SF - Eastern - 2	CAT Forklift 5,500 LB	Aerial Lift	4000.3	324	12.3	Diesel	63	0.31		
SF - Eastern - 2	Grove RT Crane 55T, 247 hp	Crane	1600.1	324	4.9	Diesel	247	0.29		
SF - Eastern - 3	CAT 14 M	Grader	853.3	253	3.4	Diesel	274	0.41		
SF - Eastern - 3	CAT 825, Roller	Roller	466.1	253	1.8	Diesel	315	0.38		
SF - Eastern - 3	CAT 962 H Wheel Loader	Rubber Tired L	620.2	253	2.5	Diesel	230	0.36		
SF - Eastern - 3	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	620.2	253	2.5	Diesel	158	0.38		
SF - Eastern - 3	CAT D6LGPDozer w winch	Crawler Tractor	1799.2	253	7.1	Diesel or Hybrid	179	0.43		
SF - Eastern - 3	CAT LOADER/HOE 416 E	Rubber Tired L	2613.1	253	10.3	Diesel	78	0.36		
SF - Eastern - 3	Compactor, Trench Roller, Vib 32"w	Rollers	378.7	253	1.5	Diesel	20	0.38		
SF - Eastern - 3	Disk, Towed	Off Highway	466.1	253	1.8	Diesel	140	0.44		
SF - Eastern - 3	Grove RT Crane 55T, 247 hp	Crane	2423.8	253	9.6	Diesel	247	0.29		
SF - Eastern - 3	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	363.6	253	1.4	Diesel	384	0.38		
SF - Eastern - 3	Water Pump, 4" Diesel	Pumps	180	253	0.7	Diesel	10	0.74		
SF - Eastern - 4	Air Compressor 375 cfm	Air Compresso	30.4	318	0.1	Diesel Tier 4	122	0.48		
SF - Eastern - 4	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	311.9	318	1	Diesel or Hybrid	224	0.42		
SF - Eastern - 4	Asphalt Rollier, 2 Drum 12tn, 137hp	Roller	311.9	318	1	Diesel or Hybrid	137	0.38		
SF - Eastern - 4	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	311.9	318	1	Diesel or Hybrid	133	0.38		
SF - Eastern - 4	CAT 14 M	Grader	646.9	318	2.0	Diesel	274	0.41		
SF - Eastern - 4	CAT 815, Roller	Roller	203.4	318	0.6	Diesel	170	0.38		
SF - Eastern - 4	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	545.3	318	1.7	Diesel	158	0.38		
SF - Eastern - 4	CAT D6LGPDozer w winch	Crawler Tractor	470.7	318	1.5	Diesel or Hybrid	179	0.43		
SF - Eastern - 4	CAT LOADER/HOE 416 E	Rubber Tired L	477.9	318	1.5	Diesel	78	0.36		
SF - Eastern - 4	Compactor, Plate, 22"w x 35"	Plate Compactors	30.4	318	0.1	Diesel	8.5	0.43		
SF - Eastern - 4	Compactor, Trench Roller, Vib 32"w	Rollers	140	318	0.4	Diesel	20	0.38		
SF - Eastern - 4	Disk, Towed	Off Highway	203.4	318	0.6	Diesel	140	0.44		
SF - Eastern - 4	Grove RT Crane 55T, 247 hp	Crane	1424.2	318	4.5	Diesel	247	0.29		
SF - Eastern - 4	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	267.3	318	0.8	Diesel	384	0.38		
SF - Eastern - 4	Manitowoc 555 150T, 250' Boom	Crane	1424.2	318	4.5	Diesel	760	0.29		
SF - Eastern - 4	Water Pump, 4" Diesel	Pumps	569.7	318	1.8	Diesel	10	0.74		
SF - Eastern - 5	CAT 14 M	Grader	276.7	22	12.6	Diesel	274	0.41		
SF - Eastern - 5	CAT 988 H Wheel Loader	Rubber Tired L	100	22	4.5	Diesel	400	0.36		
SF - Eastern - 5	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	100	22	4.5	Diesel	158	0.38		
SF - Eastern - 5	CAT D3 LGP, Dozer	Crawler Tractor	153.6	22	7.0	Diesel or Hybrid	76	0.43		
SF - Eastern - 5	CAT D6LGPDozer w winch	Crawler Tractor	153.6	22	7.0	Diesel or Hybrid	179	0.43		
SF - Eastern - 5	CAT IT28H, 10640 LB Tool Carrier	Rubber Tired L	153.6	22	7.0	Diesel	145	0.36		
SF - Eastern - 5	Water Pump, 6" Diesel	Pumps	100	22	4.5	Diesel	13	0.74		
SF - Eastern - 5	Water Pump, 3" Gas, Diaphragm	Pumps	153.6	22	7.0	Gasoline	10	0.74		
SF - Eastern - 6	Air Compressor 185 cfm	Air Compresso	759.3	154	4.9	Diesel Tier 4	49	0.48		
SF - Eastern - 6	Air Compressor 375 cfm	Air Compresso	12100	154	79	Diesel Tier 4	122	0.48		
SF - Eastern - 6	Boom Truck, 12.5 Tn Boom	Crane	379.7	154	2.5	Diesel or Hybrid	100	0.29		
SF - Eastern - 6	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired L	12100	154	79	Diesel	110	0.36		
SF - Eastern - 6	DMM Deep Soil Mixer, 3 Shaft	Bore Drill Rig	12100	154	79	Diesel	522	0.5		
SF - Eastern - 6	DMM Grout Mix Plant w Delivery Pump	Other Industrie	12100	154	79	Diesel	500	0.34		
SF - Eastern - 6	Grove RT Crane 30T	Crane	15187.2	154	98.6	Diesel	160	0.29		
SF - Eastern - 6	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	379.7	154	2.5	Diesel	75	0.31		
SF - Eastern - 6	Portable, 90 Kw, Diesel, 158HP	Welders	1200	154	8	Diesel Tier 4	158	0.45		
SF - Eastern - 7	Air Compressor 185 cfm	Air Compresso	2815.9	710	4.0	Diesel Tier 4	49	0.48		
SF - Eastern - 7	Boom Truck, 12.5 Tn Boom	Crane	1407.9	710	2.0	Diesel or Hybrid	100	0.29		
SF - Eastern - 7	CAT 14 M	Grader	76.8	710	0.1	Diesel	274	0.41		
SF - Eastern - 7	Cat 613 C Self Loading Scraper	Scraper	153.6	710	0.2	Diesel	187	0.48		
SF - Eastern - 7	CAT 950 H Wheel Loader	Rubber Tired L	768	710	1.1	Diesel or Hybrid	130	0.36		
SF - Eastern - 7	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	76.8	710	0.1	Diesel	158	0.38		
SF - Eastern - 7	CAT D6LGPDozer w winch	Crawler Tractor	76.8	710	0.1	Diesel or Hybrid	179	0.43		
SF - Eastern - 7	CAT LOADER/HOE 416 E	Rubber Tired L	7488	710	10.5	Diesel	78	0.36		
SF - Eastern - 7	Compactor, Plate, 22"w x 35"	Plate Compactors	384	710	0.5	Diesel	8.5	0.43		
SF - Eastern - 7	Disk, Towed	Off Highway	7488	710	10.5	Diesel	140	0.44		
SF - Eastern - 7	Farm Tractor, All Wheel Drive, 80 HP	Off Highway	3744	710	5.3	Diesel	80	0.44		
SF - Eastern - 7	Grove RT Crane 30T	Crane	135.2	710	0.2	Diesel	160	0.29		
SF - Eastern - 7	Grove RT Crane 80T, 275hp	Crane	135.2	710	0.2	Diesel	275	0.29		
SF - Eastern - 7	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	1475.6	710	2.1	Diesel	75	0.31		
SF - Eastern - 7	Water Pump, 4" Diesel	Pumps	76.8	710	0.1	Diesel	10	0.74		
SF - Eastern - 8	Air Compressor 900 cfm	Air Compresso	9984	1201	8.3	Diesel Tier 4	300	0.48		
SF - Eastern - 8	CAT 12 M	Grader	1375	1201	1.1	Diesel	173	0.41		
SF - Eastern - 8	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	1375	1201	1.1	Diesel	158	0.38		
SF - Eastern - 8	CAT LOADER/HOE 416 E	Rubber Tired L	6877.6	1201	5.7	Diesel	78	0.36		
SF - Eastern - 8	Manitowoc 999-275 Ton Crane	Crane	19968	1201	16.6	Diesel	900	0.29		
SF - Eastern - 8	Portable, 90 Kw, Diesel, 158HP	Welders	19968	1201	16.6	Diesel Tier 4	158	0.45		
SF - Eastern - 8	Trk Crane, 200tn Hyd, 197'bm, 563hp	Crane	19968	1201	16.6	Diesel	563	0.29		

SF - Eastern - 9	400A Diesel Welder, Trailer Mounted	Welders	326.4	201	1.6	Diesel	22	0.45
SF - Eastern - 9	Air Compressor 185 cfm	Air Compresso	960	201	4.8	Diesel Tier 4	49	0.48
SF - Eastern - 9	Air Compressor 900 cfm	Air Compresso	288	201	1.4	Diesel Tier 4	300	0.48
SF - Eastern - 9	Boom Truck, 12.5 Tn Boom	Crane	960	201	4.8	Diesel or Hybrid	100	0.29
SF - Eastern - 9	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired L	512	201	2.5	Diesel	110	0.36
SF - Eastern - 9	CAT 12 M	Grader	6	201	0.0	Diesel	173	0.41
SF - Eastern - 9	CAT 950 H Wheel Loader	Rubber Tired L	80	201	0.4	Diesel or Hybrid	130	0.36
SF - Eastern - 9	CAT 973 Track Loader, 4.2 cy, 263hp	Skid Loader	592	201	2.9	Diesel or Hybrid	210	0.37
SF - Eastern - 9	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	80	201	0.4	Diesel	158	0.38
SF - Eastern - 9	CAT D3 LGP, Dozer	Crawler	80	201	0.4	Diesel or Hybrid	76	0.43
SF - Eastern - 9	CAT D6LGPDozer w winch	Tractor Crawler Tractor	24	201	0.1	Diesel or Hybrid	179	0.43
SF - Eastern - 9	Compactor, Plate, 22"w x 35"	Plate Compactors	256	201	1.3	Diesel	8.5	0.43
SF - Eastern - 9	Concrete Vibrator, 2"	Other Construc	576	201	2.9	Gasoline	3	0.42
SF - Eastern - 9	Grove RT Crane 30T	Crane	960	201	4.8	Diesel	160	0.29
SF - Eastern - 9	Grove RT Crane 55T, 247 hp	Crane	182.4	201	0.9	Diesel	247	0.29
SF - Eastern - 9	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	24	201	0.1	Diesel	384	0.38
SF - Eastern - 9	Manitowoc 555 150T, 250' Boom	Crane	38.4	201	0.2	Diesel	760	0.29
SF - Eastern - 9	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	960	201	4.8	Diesel	75	0.31
SF - Eastern - 9	Portable, 90 Kw, Diesel, 158HP	Welders	288	201	1.4	Diesel Tier 4	158	0.45
SF - Eastern - 10	400A Diesel Welder, Trailer Mounted	Welders	78	72	1.1	Diesel	22	0.45
SF - Eastern - 10	CAT 14 M	Grader	71.2	72	1.0	Diesel	274	0.41
SF - Eastern - 10	CAT 988 H Wheel Loader	Rubber Tired L	71.2	72	1.0	Diesel	400	0.36
SF - Eastern - 10	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	71.2	72	1.0	Diesel	158	0.38
SF - Eastern - 10	Grove RT Crane 55T, 247 hp	Crane	156	72	2.2	Diesel	247	0.29
SF - Eastern - 10	Portable, 90 Kw, Diesel, 158HP	Welders	78	72	1.1	Diesel Tier 4	158	0.45
SF - Eastern - 10	Water Pump, 6" Diesel	Pumps	71.2	72	1.0	Diesel	13	0.74
SF - Eastern - 11	Air Compressor 185 cfm	Air Compresso	890	277	3.2	Diesel Tier 4	49	0.48
SF - Eastern - 11	Bentonite Mix Plant/Desander	Cement & Mor	8220.4	277	29.7	Diesel Tier 4	100	0.56
SF - Eastern - 11	Boom Truck, 12.5 Tn Boom	Crane	445	277	1.6	Diesel or Hybrid	100	0.29
SF - Eastern - 11	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired L	8220.4	277	29.7	Diesel	110	0.36
SF - Eastern - 11	CAT 14 M	Grader	400.9	277	1.4	Diesel	274	0.41
SF - Eastern - 11	CAT 962 H Wheel Loader	Rubber Tired L	8220.4	277	29.7	Diesel	230	0.36
SF - Eastern - 11	CAT 988 H Wheel Loader	Rubber Tired L	200.4	277	0.7	Diesel	400	0.36
SF - Eastern - 11	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	200.4	277	0.7	Diesel	158	0.38
SF - Eastern - 11	CAT D6LGPDozer w winch	Crawler Tractor	8220.4	277	29.7	Diesel or Hybrid	179	0.43
SF - Eastern - 11	Grove RT Crane 55T, 247 hp	Crane	8221.4	277	29.7	Diesel	247	0.29
SF - Eastern - 11	Grove RT Crane 80T, 275hp	Crane	8220.4	277	29.7	Diesel	275	0.29
SF - Eastern - 11	Manitowoc 555 150T, 250' Boom	Crane	15256.1	277	55.1	Diesel	760	0.29
SF - Eastern - 11	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	445	277	1.6	Diesel	75	0.31
SF - Eastern - 11	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mor	8220.4	277	30	Diesel	8	0.56
SF - Eastern - 11	Slurry Wall Techniwell	Pumps	8221.4	277	30	Diesel	500	0.74
SF - Eastern - 11	Well Drill	Bore/Drill Rigs	192	277	0.7	Diesel	136	0.5
SF - Eastern - 12	400A Diesel Welder, Trailer Mounted	Welders	3251.8	712	4.6	Diesel	22	0.45
SF - Eastern - 12	Air Compressor 375 cfm	Air Compresso	58.5	712	0.1	Diesel Tier 4	122	0.48
SF - Eastern - 12	Air Compressor 900 cfm	Air Compresso	2600.4	712	3.7	Diesel Tier 4	300	0.48
SF - Eastern - 12	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Constr	206.5	712	0.3	Diesel	50	0.42
SF - Eastern - 12	Bobcat S630 Skid Steer Loader	Skid Loader	266.6	712	0.4	Diesel	74	0.37
SF - Eastern - 12	CAT 14 M	Grader	130.4	712	0.2	Diesel	274	0.41
SF - Eastern - 12	CAT 390 MASS EXC	Excavator	1754.9	712	2.5	Diesel	534	0.38
SF - Eastern - 12	CAT 815, Roller	Roller	260.8	712	0.4	Diesel	170	0.38
SF - Eastern - 12	CAT D6LGPDozer w winch	Crawler Tractor	260.8	712	0.4	Diesel or Hybrid	179	0.43
SF - Eastern - 12	CAT D8Rii, Dozer w winch	Crawler Tractor	1246	712	1.8	Diesel	310	0.43
SF - Eastern - 12	Concrete Vibrator, 2"	Other Construc	9579.9	712	13.5	Gasoline	3	0.42
SF - Eastern - 12	Grove RT Crane 15T, 100hp	Crane	361.8	712	0.5	Diesel	100	0.29
SF - Eastern - 12	Grove RT Crane 55T, 247 hp	Crane	7235.9	712	10.2	Diesel	247	0.29
SF - Eastern - 12	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	1494.2	712	2.1	Diesel	345	0.38
SF - Eastern - 12	Light Plant, 4 lite, 1000w, Tower/Mast	Generator	153.6	712	0.2	Diesel	12	0.74
SF - Eastern - 12	Manitowoc 555 150T, 250' Boom	Crane	16252.4	712	22.8	Diesel	760	0.29
SF - Eastern - 12	Portable, 20 Kw, Diesel, 36HP	Welders	58.5	712	0.1	Diesel Tier 4	36	0.45
SF - Eastern - 12	Portable, 90 Kw, Diesel, 158HP	Welders	3193.3	712	4.5	Diesel Tier 4	158	0.45
SF - Eastern - 12	Water Pump, 10" Diesel	Pumps	2060.2	712	2.9	Diesel	200	0.74
SF - Eastern - 13	400A Diesel Welder, Trailer Mounted	Welders	1569.9	794	2.0	Diesel	22	0.45
SF - Eastern - 13	Air Compressor 185 cfm	Air Compresso	208.3	794	0.3	Diesel Tier 4	49	0.48
SF - Eastern - 13	Air Compressor 375 cfm	Air Compresso	4.8	794	0.0	Diesel Tier 4	122	0.48
SF - Eastern - 13	Air Compressor 900 cfm	Air Compresso	1565.1	794	2.0	Diesel Tier 4	300	0.48
SF - Eastern - 13	Bentonite Mix Plant/Desander	Cement & Mor	1870.9	794	2.4	Diesel Tier 4	100	0.56
SF - Eastern - 13	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Constr	164.7	794	0.2	Diesel	50	0.42
SF - Eastern - 13	Bobcat S630 Skid Steer Loader	Skid Loader	87	794	0.1	Diesel	74	0.37
SF - Eastern - 13	Boom Truck, 12.5 Tn Boom	Crane	104.2	794	0.1	Diesel or Hybrid	100	0.29
SF - Eastern - 13	CAT 12 M	Grader	57.5	794	0.1	Diesel	173	0.41
SF - Eastern - 13	CAT 14 M	Grader	95.2	794	0.1	Diesel	274	0.41
SF - Eastern - 13	CAT 390 MASS EXC	Excavator	58.9	794	0.1	Diesel	534	0.38
SF - Eastern - 13	CAT 815, Roller	Roller	58.9	794	0.1	Diesel	170	0.38
SF - Eastern - 13	CAT 962 H Wheel Loader	Rubber Tired L	1870.9	794	2.4	Diesel	230	0.36
SF - Eastern - 13	CAT 988 H Wheel Loader	Rubber Tired L	32.9	794	0.0	Diesel	400	0.36
SF - Eastern - 13	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	32.9	794	0.0	Diesel	158	0.38
SF - Eastern - 13	CAT D3 LGP, Dozer	Crawler Tractor	230.1	794	0.3	Diesel or Hybrid	76	0.43
SF - Eastern - 13	CAT D6LGPDozer w winch	Crawler Tractor	1928.8	794	2.4	Diesel or Hybrid	179	0.43
SF - Eastern - 13	CAT D8Rii, Dozer w winch	Crawler Tractor	312.8	794	0.4	Diesel	310	0.43
SF - Eastern - 13	Compactor, Plate, 22"w x 35"	Plate Compactors	87	794	0.1	Diesel	8.5	0.43
SF - Eastern - 13	Compactor, Trench Roller, Vib 32"w	Rollers	87	794	0.1	Diesel	20	0.38
SF - Eastern - 13	Concrete Vibrator, 2"	Other Construc	4695.2	794	5.9	Gasoline	3	0.42
SF - Eastern - 13	Grove RT Crane 55T, 247 hp	Crane	4253.3	794	5.4	Diesel	247	0.29

SF - Eastern - 13	Grove RT Crane 80T, 275hp	Crane	3742.2	794	4.7	Diesel	275	0.29
SF - Eastern - 13	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	230.1	794	0.3	Diesel	384	0.38
SF - Eastern - 13	Manitowoc 555 150T, 250' Boom	Crane	9920.1	794	12.5	Diesel	760	0.29
SF - Eastern - 13	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	104.2	794	0.1	Diesel	75	0.31
SF - Eastern - 13	Portable, 90 Kw, Diesel, 158HP	Welders	1565.1	794	2.0	Diesel Tier 4	158	0.45
SF - Eastern - 13	Water Pump, 10" Diesel	Pumps	1536	794	1.9	Diesel	200	0.74
SF - Eastern - 13	Water Pump, 6" Diesel	Pumps	1903.8	794	2.4	Diesel	13	0.74
SF - Eastern - 14	400A Diesel Welder, Trailer Mounted	Welders	3205	649	4.9	Diesel	22	0.45
SF - Eastern - 14	Air Compressor 375 cfm	Air Compresso	175.6	649	0.3	Diesel Tier 4	122	0.48
SF - Eastern - 14	Air Compressor 900 cfm	Air Compresso	3029.4	649	4.7	Diesel Tier 4	300	0.48
SF - Eastern - 14	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Constr	332.4	649	0.5	Diesel	50	0.42
SF - Eastern - 14	Bobcat S630 Skid Steer Loader	Skid Loader	1378	649	2.1	Diesel	74	0.37
SF - Eastern - 14	CAT 14 M	Grader	244.2	649	0.4	Diesel	274	0.41
SF - Eastern - 14	CAT 390 MASS EXC	Excavator	921.4	649	1.4	Diesel	534	0.38
SF - Eastern - 14	CAT 815, Roller	Roller	488.5	649	0.8	Diesel	170	0.38
SF - Eastern - 14	CAT D6LGPDozer w winch	Crawler Tractor	488.5	649	0.8	Diesel or Hybrid	179	0.43
SF - Eastern - 14	CAT D8Rii, Dozer w winch	Crawler Tractor	488.5	649	0.8	Diesel	310	0.43
SF - Eastern - 14	Compactor, Plate, 22"w x 35"	Plate Compactors	1378	649	2.1	Diesel	8.5	0.43
SF - Eastern - 14	Compactor, Trench Roller, Vib 32"w	Roller	1378	649	2.1	Diesel	20	0.38
SF - Eastern - 14	Concrete Vibrator, 2"	Other Construc	9088.1	649	14.0	Gasoline	3	0.42
SF - Eastern - 14	Grove RT Crane 55T, 247 hp	Crane	3185.8	649	4.9	Diesel	247	0.29
SF - Eastern - 14	Grove RT Crane 80T, 275hp	Crane	383.3	649	0.6	Diesel	275	0.29
SF - Eastern - 14	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	433	649	0.7	Diesel	345	0.38
SF - Eastern - 14	Manitowoc 555 150T, 250' Boom	Crane	7381.5	649	11.4	Diesel	760	0.29
SF - Eastern - 14	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	156.4	649	0.2	Diesel	75	0.31
SF - Eastern - 14	Portable, 20 Kw, Diesel, 36HP	Welders	156.4	649	0.2	Diesel Tier 4	36	0.45
SF - Eastern - 14	Portable, 90 Kw, Diesel, 158HP	Welders	3029.4	649	4.7	Diesel Tier 4	158	0.45
SF - Eastern - 14	Vibro Driver/Extractor V208	Other Construc	156.4	649	0.2	Diesel	325	0.42
SF - Eastern - 15A	400A Diesel Welder, Trailer Mounted	Welders	2995.5	265	11.3	Diesel	22	0.45
SF - Eastern - 15A	CAT IT28H, 10640 LB Tool Carrier	Rubber Tired L	2995.5	265	11.3	Diesel	145	0.36
SF - Eastern - 15A	Manitowoc 555 150T, 250' Boom	Crane	2995.5	265	11.3	Diesel	760	0.29
SF - Eastern - 15B	400A Diesel Welder, Trailer Mounted	Welders	861.4	335	2.6	Diesel	22	0.45
SF - Eastern - 15B	Air Compressor 185 cfm	Air Compresso	76.8	335	0.2	Diesel Tier 4	49	0.48
SF - Eastern - 15B	Air Compressor 375 cfm	Air Compresso	591.7	335	1.8	Diesel Tier 4	122	0.48
SF - Eastern - 15B	Air Compressor 900 cfm	Air Compresso	861.4	335	2.6	Diesel Tier 4	300	0.48
SF - Eastern - 15B	Bentonite Mix Plant/Desander	Cement & Mor	591.7	335	1.8	Diesel Tier 4	100	0.56
SF - Eastern - 15B	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Constr	80.9	335	0.2	Diesel	50	0.42
SF - Eastern - 15B	Bobcat S630 Skid Steer Loader	Skid Loader	250.5	335	0.7	Diesel	74	0.37
SF - Eastern - 15B	Boom Truck, 12.5 Tn Boom	Crane	38.4	335	0.1	Diesel or Hybrid	100	0.29
SF - Eastern - 15B	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired L	591.7	335	1.8	Diesel	110	0.36
SF - Eastern - 15B	CAT 12 M	Grader	298.6	335	0.9	Diesel	173	0.41
SF - Eastern - 15B	CAT 14 M	Grader	761.1	335	2.3	Diesel	274	0.41
SF - Eastern - 15B	CAT 953 Track Loader, 2.25cy, 148hp	Skid Loader	591.7	335	1.8	Diesel	148	0.37
SF - Eastern - 15B	CAT 988 H Wheel Loader	Rubber Tired L	380.5	335	1.1	Diesel	400	0.36
SF - Eastern - 15B	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	380.5	335	1.1	Diesel	158	0.38
SF - Eastern - 15B	CAT D6LGPDozer w winch	Crawler Tractor	2980.9	335	8.9	Diesel or Hybrid	179	0.43
SF - Eastern - 15B	Compactor, Plate, 22"w x 35"	Plate Compactors	250.5	335	0.7	Diesel	8.5	0.43
SF - Eastern - 15B	Compactor, Trench Roller, Vib 32"w	Roller	250.5	335	0.7	Diesel	20	0.38
SF - Eastern - 15B	Concrete Vibrator, 2"	Other Construc	2584.3	335	7.7	Gasoline	3	0.42
SF - Eastern - 15B	Grove RT Crane 15T, 100hp	Crane	591.7	335	1.8	Diesel	100	0.29
SF - Eastern - 15B	Grove RT Crane 55T, 247 hp	Crane	1034.2	335	3.1	Diesel	247	0.29
SF - Eastern - 15B	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	1194.6	335	3.6	Diesel	384	0.38
SF - Eastern - 15B	Manitowoc 555 150T, 250' Boom	Crane	2912.9	335	8.7	Diesel	760	0.29
SF - Eastern - 15B	Portable, 90 Kw, Diesel, 158HP	Welders	861.4	335	2.6	Diesel Tier 4	158	0.45
SF - Eastern - 15B	Water Pump, 6" Diesel	Pumps	972.3	335	2.9	Diesel	13	0.74
SF - Eastern - 16	400A Diesel Welder, Trailer Mounted	Welders	289.1	147	2.0	Diesel	22	0.45
SF - Eastern - 16	Air Compressor 185 cfm	Air Compresso	1100.8	147	7.5	Diesel Tier 4	49	0.48
SF - Eastern - 16	Air Compressor 900 cfm	Air Compresso	289.1	147	2.0	Diesel Tier 4	300	0.48
SF - Eastern - 16	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Constr	91.1	147	0.6	Diesel	50	0.42
SF - Eastern - 16	Boom Truck, 12.5 Tn Boom	Crane	1100.8	147	7.5	Diesel or Hybrid	100	0.29
SF - Eastern - 16	CAT 950 H Wheel Loader	Rubber Tired L	72.3	147	0.5	Diesel or Hybrid	130	0.36
SF - Eastern - 16	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	72.3	147	0.5	Diesel	158	0.38
SF - Eastern - 16	CAT D3 LGP, Dozer	Crawler Tractor	72.3	147	0.5	Diesel or Hybrid	76	0.43
SF - Eastern - 16	Concrete Vibrator, 2"	Other Construc	578.1	147	3.9	Gasoline	3	0.42
SF - Eastern - 16	Grove RT Crane 30T	Crane	1100.8	147	7.5	Diesel	160	0.29
SF - Eastern - 16	Grove RT Crane 55T, 247 hp	Crane	289.1	147	2.0	Diesel	247	0.29
SF - Eastern - 16	Manitowoc 555 150T, 250' Boom	Crane	289.1	147	2.0	Diesel	760	0.29
SF - Eastern - 16	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	1100.8	147	7.5	Diesel	75	0.31
SF - Eastern - 17	400A Diesel Welder, Trailer Mounted	Welders	1232.0	33	37.3	Diesel	22	0.45
SF - Eastern - 17	Air Compressor 185 cfm	Air Compresso	1232.0	33	37.3	Diesel Tier 4	49	0.48
SF - Eastern - 17	Air Compressor 900 cfm	Air Compresso	77.7	33	2.4	Diesel Tier 4	300	0.48
SF - Eastern - 17	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Constr	20	33	<1	Diesel	50	0.42
SF - Eastern - 17	Boom Truck, 12.5 Tn Boom	Crane	1232.0	33	37.3	Diesel or Hybrid	100	0.29
SF - Eastern - 17	CAT 950 H Wheel Loader	Rubber Tired L	10.9	33	0.3	Diesel or Hybrid	130	0.36
SF - Eastern - 17	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	10.9	33	0.3	Diesel	158	0.38
SF - Eastern - 17	CAT D3 LGP, Dozer	Crawler Tractor	10.9	33	0.3	Diesel or Hybrid	76	0.43
SF - Eastern - 17	Concrete Vibrator, 2"	Other Construc	155.4	33	#VALUE!	Gasoline	3	0.42
SF - Eastern - 17	Grove RT Crane 30T	Crane	1232	33	37.3	Diesel	160	0.29
SF - Eastern - 17	Grove RT Crane 55T, 247 hp	Crane	77.7	33	2.4	Diesel	247	0.29
SF - Eastern - 17	Manitowoc 555 150T, 250' Boom	Crane	77.7	33	2.4	Diesel	760	0.29
SF - Eastern - 17	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	1232	33	37.3	Diesel	75	0.31
SF - Eastern - 17	Portable, 90 Kw, Diesel, 158HP	Welders	77.7	33	2.4	Diesel Tier 4	158	0.45
SF - Eastern - 18	400A Diesel Welder, Trailer Mounted	Welders	0.2	29	0.0	Diesel	22	0.45

SF - Eastern - 18	Air Compressor 185 cfm	Air Compresso	0.2	29	0.0	Diesel Tier 4	49	0.48
SF - Eastern - 18	Air Compressor 900 cfm	Air Compresso	42.4	29	1.5	Diesel Tier 4	300	0.48
SF - Eastern - 18	Boom Truck, 12.5 Tn Boom	Crane		29	0.0	Diesel or Hybrid	100	0.29
SF - Eastern - 18	CAT 950 H Wheel Loader	Rubber Tired L	24.2	29	0.8	Diesel or Hybrid	130	0.36
SF - Eastern - 18	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	24.2	29	0.8	Diesel	158	0.38
SF - Eastern - 18	CAT D3 LGP, Dozer	Crawler Tractor	24.2	29	0.8	Diesel or Hybrid	76	0.43
SF - Eastern - 18	Concrete Vibrator, 2"	Other Construc	84.7	29	2.9	Gasoline	3	0.42
SF - Eastern - 18	Grove RT Crane 30T	Crane		29	0.0	Diesel	160	0.29
SF - Eastern - 18	Grove RT Crane 55T, 247 hp	Crane	42.4	29	1.5	Diesel	247	0.29
SF - Eastern - 18	Manitowoc 555 150T, 250' Boom	Crane	42.4	29	1.5	Diesel	760	0.29
SF - Eastern - 18	Portable, 90 Kw, Diesel, 158HP	Welders	42.4	29	1.5	Diesel Tier 4	158	0.45
SF - Eastern - 19	400A Diesel Welder, Trailer Mounted	Welders	775.6	325	2.4	Diesel	22	0.45
SF - Eastern - 19	Air Compressor 185 cfm	Air Compresso	2198.4	325	6.8	Diesel Tier 4	49	0.48
SF - Eastern - 19	Air Compressor 900 cfm	Air Compresso	2198.4	325	6.8	Diesel Tier 4	300	0.48
SF - Eastern - 19	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	35.9	325	0	Diesel or Hybrid	224	0.42
SF - Eastern - 19	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	35.9	325	0	Diesel or Hybrid	137	0.38
SF - Eastern - 19	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	35.9	325	0	Diesel or Hybrid	133	0.38
SF - Eastern - 19	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Constr	244.3	325	0.8	Diesel	50	0.42
SF - Eastern - 19	Bobcat 5630 Skid Steer Loader	Skid Loader	1115.5	325	3.4	Diesel	74	0.37
SF - Eastern - 19	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired L	749.8	325	2.3	Diesel	110	0.36
SF - Eastern - 19	CAT 14 M	Grader	60.2	325	0.2	Diesel	274	0.41
SF - Eastern - 19	Boom Truck, 12.5 Tn Boom	Crane	2198.4	325	6.8	Diesel or Hybrid	100	0.29
SF - Eastern - 19	CAT 390 MASS EXC	Excavator	2.5	325	0.0	Diesel	534	0.38
SF - Eastern - 19	CAT 825, Roller	Roller	2.5	325	0.0	Diesel	315	0.38
SF - Eastern - 19	CAT 950 H Wheel Loader	Rubber Tired L	884.5	325	2.7	Diesel or Hybrid	130	0.36
SF - Eastern - 19	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	192.4	325	0.6	Diesel	158	0.38
SF - Eastern - 19	CAT D3 LGP, Dozer	Crawler Tractor	134.6	325	0.4	Diesel or Hybrid	76	0.43
SF - Eastern - 19	CAT D6LGPDozer w winch	Crawler Tractor	5.1	325	0.0	Diesel or Hybrid	179	0.43
SF - Eastern - 19	CAT LOADER/HOE 416 E	Rubber Tired L	580.7	325	1.8	Diesel	78	0.36
SF - Eastern - 19	Compactor, Plate, 22" w x 35"	Plate Compactors	374.9	325	1.2	Diesel	8.5	0.43
SF - Eastern - 19	Concrete Vibrator, 2"	Other Construc	1551.2	325	4.8	Gasoline	3	0.42
SF - Eastern - 19	Disk, Towed	Off Highway	2.5	325	0.0	Diesel	140	0.44
SF - Eastern - 19	Grove RT Crane 30T	Crane	2198.4	325	6.8	Diesel	160	0.29
SF - Eastern - 19	Grove RT Crane 55T, 247 hp	Crane	775.6	325	2.4	Diesel	247	0.29
SF - Eastern - 19	Manitowoc 555 150T, 250' Boom	Crane	387.7	325	1.2	Diesel	760	0.29
SF - Eastern - 19	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	2198.4	325	6.8	Diesel	75	0.31
SF - Eastern - 19	Portable, 90 Kw, Diesel, 158HP Water Pump, 4" Diesel	Welders	775.6	325	2.4	Diesel Tier 4	158	0.45
SF - Eastern - 19		Pumps	12	325	0.0	Diesel	10	0.74
SF - Eastern - 20	400A Diesel Welder, Trailer Mounted	Welders	2121.4	680	3.1	Diesel	22	0.45
SF - Eastern - 20	Air Compressor 185 cfm	Air Compresso	5120	680	7.5	Diesel Tier 4	49	0.48
SF - Eastern - 20	Air Compressor 900 cfm	Air Compresso	2121.4	680	3.1	Diesel Tier 4	300	0.48
SF - Eastern - 20	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Constr	294.1	680	0.4	Diesel	50	0.42
SF - Eastern - 20	Bobcat 5630 Skid Steer Loader	Skid Loader	85.7	680	0.1	Diesel	74	0.37
SF - Eastern - 20	Boom Truck, 12.5 Tn Boom	Crane	4160	680	6.1	Diesel or Hybrid	100	0.29
SF - Eastern - 20	Compactor, Plate, 22" w x 35"	Plate Compactors	530.3	680	0.8	Diesel	8.5	0.43
SF - Eastern - 20	Concrete Vibrator, 2"	Other Construc	6364.1	680	9.4	Gasoline	3	0.42
SF - Eastern - 20	Grove RT Crane 55T, 247 hp	Crane	2121.4	680	3.1	Diesel	247	0.29
SF - Eastern - 20	Grove RT Crane 80T, 275hp	Crane	4870.4	680	7.2	Diesel	275	0.29
SF - Eastern - 20	Manitowoc 555 150T, 250' Boom	Crane	6429	680	9.5	Diesel	760	0.29
SF - Eastern - 20	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	7410.5	680	10.9	Diesel	75	0.31
SF - Eastern - 20	Portable, 90 Kw, Diesel, 158HP	Welders	2121.4	680	3.1	Diesel Tier 4	158	0.45
SF - Eastern - 21	Air Compressor 185 cfm	Air Compresso	3200	880	3.6	Diesel Tier 4	49	0.48
SF - Eastern - 22	400A Diesel Welder, Trailer Mounted	Welders	384	269	1.4	Diesel	22	0.45
SF - Eastern - 22	Manitowoc 555 150T, 250' Boom	Crane	384	269	1.4	Diesel	760	0.29
SF - Eastern - 22	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	96	269	0.4	Diesel	75	0.31
SF - Eastern - 23	Air Compressor 185 cfm	Air Compresso	120.5	160	0.8	Diesel Tier 4	49	0.48
SF - Eastern - 23	Air Compressor 375 cfm	Air Compresso	39.6	160	0.2	Diesel Tier 4	122	0.48
SF - Eastern - 23	Boom Truck, 12.5 Tn Boom	Crane	110.2	160	0.7	Diesel or Hybrid	100	0.29
SF - Eastern - 23	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired L	1209.4	160	7.6	Diesel	110	0.36
SF - Eastern - 23	CAT 14 M	Grader	25208.8	160	157.6	Diesel	274	0.41
SF - Eastern - 23	Cat 613 C Self Loading Scraper	Scraper	80	160	0.5	Diesel	187	0.48
SF - Eastern - 23	CAT 815, Roller	Roller	711.9	160	4.4	Diesel	170	0.38
SF - Eastern - 23	CAT 950 H Wheel Loader	Rubber Tired L	1209.41	160	7.6	Diesel or Hybrid	130	0.36
SF - Eastern - 23	CAT 962 H Wheel Loader	Rubber Tired L	168.83	160	1.1	Diesel	230	0.36
SF - Eastern - 23	CAT 988 H Wheel Loader	Rubber Tired L	121.07	160	0.8	Diesel	400	0.36
SF - Eastern - 23	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	208.8	160	1.3	Diesel	158	0.38
SF - Eastern - 23	CAT D6LGPDozer w winch	Crawler Tractor	1931	160	12.1	Diesel or Hybrid	179	0.43
SF - Eastern - 23	CAT D8Rii, Dozer w winch	Crawler Tractor	121.1	160	0.8	Diesel	310	0.43
SF - Eastern - 23	CAT LOADER/HOE 416 E	Rubber Tired L	6329.1	160	39.6	Diesel	78	0.36
SF - Eastern - 23	Compactor, Plate, 22" w x 35"	Plate Compactors	644.3	160	4.0	Diesel	8.5	0.43
SF - Eastern - 23	Grove RT Crane 30T	Crane	120.5	160	0.8	Diesel	160	0.29
SF - Eastern - 23	Grove RT Crane 80T, 275hp	Crane	120.5	160	0.8	Diesel	275	0.29
SF - Eastern - 23	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	1220.9	160	7.6	Diesel	384	0.38
SF - Eastern - 23	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	120.5	160	0.8	Diesel	75	0.31
SF - Eastern - 23	Water Pump, 4" Diesel	Pumps	73.8	160	0.5	Diesel	10	0.74
SF - Eastern - 24	CAT 14 M	Grader	100	180	0.6	Diesel	274	0.41
SF - Eastern - 24	CAT 950 H Wheel Loader	Rubber Tired L	200	180	1.1	Diesel or Hybrid	130	0.36
SF - Eastern - 24	CAT D3 LGP, Dozer	Crawler Tractor	200	180	1.1	Diesel or Hybrid	76	0.43
SF - Eastern - 24	CAT D6LGPDozer w winch	Crawler Tractor	200	180	1.1	Diesel or Hybrid	179	0.43
SF - Eastern - 24	Water Pump, 3" Gas, Diaphragm	Pumps	1600	180	8.9	Gasoline	10	0.74
SF - Eastern - 25	Boom Truck, 12.5 Tn Boom	Crane	3900	393	9.9	Diesel or Hybrid	100	0.29

SF - Eastern - 25	CAT 12 M	Grader	5190.3	393	13.2	Diesel	173	0.41
SF - Eastern - 25	CAT D3 LGP, Dozer	Crawler Tractor	20761.4	393	52.8	Diesel or Hybrid	76	0.43
SF - Eastern - 25	CAT D6LGPDozer w winch	Crawler Tractor	1642.8	393	4.2	Diesel or Hybrid	179	0.43
SF - Eastern - 25	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	279.7	393	0.7	Diesel	345	0.38
SF - Eastern - 25	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	21844.8	393	55.6	Diesel	384	0.38
SF - Eastern - 25	Water Pump, 4" Diesel	Pumps	21900	393	55.7	Diesel	10	0.74
SF - Eastern - 26	Air Compressor 375 cfm	Air Compresso	13550	1355	10	Diesel Tier 4	122	0.48
SF - Eastern - 26	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired L	20738.5	1355	15.3	Diesel	110	0.36
SF - Eastern - 26	CAT 14 M	Grader	14302.4	1355	10.6	Diesel	274	0.41
SF - Eastern - 26	CAT 390 MASS EXC	Excavator	10332	1355	7.6	Diesel	534	0.38
SF - Eastern - 26	CAT 631G Scraper, Conventional	Scraper	73091.1	1355	53.9	Diesel	515	0.48
SF - Eastern - 26	CAT 825, Roller	Roller	28604.8	1355	21.1	Diesel	315	0.38
SF - Eastern - 26	CAT D6LGPDozer w winch	Crawler Tractor	29800.4	1355	22.0	Diesel or Hybrid	179	0.43
SF - Eastern - 26	CAT D9R, Dozer w ripper	Crawler Tractor	18272.8	1355	13.5	Diesel	410	0.43
SF - Eastern - 26	Disk, Towed	Off Highway	19468.4	1355	14.4	Diesel	140	0.44
SF - Eastern - 26	DMM Deep Soil Mixer, 3 Shaft,	Bore Drill Rig	13550	1355	10	Diesel	522	0.5
SF - Eastern - 26	DMM Grout Mix Plant w Delivery Pump	Other Industri	13550	1355	10	Diesel	500	0.34
SF - Eastern - 26	Grove RT Crane 30T	Crane	13550	1355	10	Diesel	160	0.29
SF - Eastern - 26	Portable, 90 Kw, Diesel, 158HP Water Pump, 4" Diesel	Welders	13550	1355	10	Diesel Tier 4	158	0.45
SF - Eastern - 26		Pumps	4259.1	1355	3.1	Diesel	10	0.74
SF - Eastern - 27	CAT 14 M	Grader	119.4	1750	0.1	Diesel	274	0.41
SF - Eastern - 27	Cat 613 C Self Loading Scraper	Scraper	19915.5	1750	11.4	Diesel	187	0.48
SF - Eastern - 27	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	119.4	1750	0.1	Diesel	158	0.38
SF - Eastern - 27	CAT D6LGPDozer w winch	Crawler Tractor	32095.7	1750	18.3	Diesel or Hybrid	179	0.43
SF - Eastern - 27	Disk, Towed	Off Highway	23282.5	1750	13.3	Diesel	140	0.44
SF - Eastern - 27	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	17148.8	1750	9.8	Diesel	345	0.38
SF - Eastern - 28	CAT 12 M	Grader	996.2	2154	0.5	Diesel	173	0.41
SF - Eastern - 28	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	996.2	2154	0.5	Diesel	158	0.38
SF - Eastern - 28	CAT LOADER/HOE 416 E	Rubber Tired L	14836.9	2154	6.9	Diesel	78	0.36
SF - Eastern - 28	Disk, Towed	Off Highway	6535	2154	3.0	Diesel	140	0.44
SF - Eastern - 28	Farm Tractor, All Wheel Drive, 80 HP	Off Highway	6535	2154	3.0	Diesel	80	0.44
SF - Eastern - 29	Bobcat S630 Skid Steer Loader	Skid Loader	107.1	535	0.2	Diesel	74	0.37
SF - Eastern - 29	Brush Chipper, 18" Cap., Trailer Mtd.	Other	67	535	0.1	Diesel	173	0.42
SF - Eastern - 29	CAT 14 M	Grader	3150.1	535	5.9	Diesel	274	0.41
SF - Eastern - 29	CAT 320D, 1.56 cy, 153 hp	Excavator	67	535	0.1	Diesel	138	0.38
SF - Eastern - 29	Cat 613 C Self Loading Scraper	Scraper	555.3	535	1.0	Diesel	187	0.48
SF - Eastern - 29	CAT 825, Roller	Roller	340.7	535	0.6	Diesel	315	0.38
SF - Eastern - 29	CAT 950 H Wheel Loader	Rubber Tired L	53.6	535	0.1	Diesel or Hybrid	130	0.36
SF - Eastern - 29	CAT 962 H Wheel Loader	Rubber Tired L	2093.1	535	3.9	Diesel	230	0.36
SF - Eastern - 29	CAT 966 Gil Wheel Loader	Rubber Tired L	2867.8	535	5.4	Diesel	286	0.36
SF - Eastern - 29	CAT 980 H Wheel Loader	Rubber Tired L	340.7	535	0.6	Diesel	393	0.36
SF - Eastern - 29	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	2093.1	535	3.9	Diesel	158	0.38
SF - Eastern - 29	CAT D3 LGP, Dozer	Crawler Tractor	26.8	535	0.1	Diesel or Hybrid	76	0.43
SF - Eastern - 29	CAT D6LGPDozer w winch	Crawler Tractor	869	535	1.6	Diesel or Hybrid	179	0.43
SF - Eastern - 29	CAT LOADER/HOE 416 E	Rubber Tired L	1868.4	535	3.5	Diesel	78	0.36
SF - Eastern - 29	Disk, Towed	Off Highway	507.7	535	0.9	Diesel	140	0.44
SF - Eastern - 29	Farm Tractor, All Wheel Drive, 80 HP	Off Highway	334	535	0.6	Diesel	80	0.44
SF - Eastern - 29	Gradall, 1.50 Cy, 282 Hp	Excavator	2867.8	535	5.4	Diesel	282	0.38
SF - Eastern - 29	Hydro Mulcher, 18 HP	Pumps	167	535	0.3	Diesel	25	0.74
SF - Eastern - 29	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	819.6	535	1.5	Diesel	345	0.38
SF - Eastern - 29	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	2921.3	535	5.5	Diesel	384	0.38
SF - Eastern - 29	Light Plant, 4 lite, 1000w, Tower/Mast	Generator	67	535	0.1	Diesel	12	0.74
SF - Eastern - 29	Portable, 20 Kw, Diesel, 36HP	Welders	535.4	535	10	Diesel Tier 4	36	0.74
SF - Eastern - 29	Water Pump, 4" Diesel	Pumps	4488.3	535	8.4	Diesel	10	0.74
SF - Eastern - 29	Disk, Towed	Off Highway	507.7	535	0.9	Diesel	140	0.44
SF - Eastern - 30	400A Diesel Welder, Trailer Mounted	Welders	632.2	186	3.4	Diesel	22	0.45
SF - Eastern - 30	Air Compressor 1600 cfm	Air Compresso	38	186	0.2	Diesel Tier 4	540	0.48
SF - Eastern - 30	Air Compressor 375 cfm	Air Compresso	1719.2	186	9.2	Diesel Tier 4	122	0.48
SF - Eastern - 30	Bentonite Mix Plant/Desander	Cement & Mor	137.5	186	0.7	Diesel Tier 4	100	0.56
SF - Eastern - 30	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired L	1306.7	186	7.0	Diesel	110	0.36
SF - Eastern - 30	CAT 14 M	Grader	138.6	186	0.7	Diesel	274	0.41
SF - Eastern - 30	CAT 390 MASS EXC	Excavator	137.5	186	0.7	Diesel	534	0.38
SF - Eastern - 30	CAT 631G Scraper, Conventional	Scraper	808.3	186	4.3	Diesel	515	0.48
SF - Eastern - 30	CAT 815, Roller	Roller	618	186	3.3	Diesel	170	0.38
SF - Eastern - 30	CAT 950 H Wheel Loader	Rubber Tired L	171.9	186	0.9	Diesel or Hybrid	130	0.36
SF - Eastern - 30	CAT 962 H Wheel Loader	Rubber Tired L	137.5	186	0.7	Diesel	230	0.36
SF - Eastern - 30	CAT 966 Gil Wheel Loader	Rubber Tired L	137.6	186	0.7	Diesel	286	0.36
SF - Eastern - 30	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	171.9	186	0.9	Diesel	158	0.38
SF - Eastern - 30	CAT D3 LGP, Dozer	Crawler Tractor	171.9	186	0.9	Diesel or Hybrid	76	0.43
SF - Eastern - 30	CAT D6LGPDozer w winch	Crawler Tractor	977.7	186	5.3	Diesel or Hybrid	179	0.43
SF - Eastern - 30	CAT D9R, Dozer w ripper	Crawler Tractor	269.4	186	1.4	Diesel	410	0.43
SF - Eastern - 30	Concrete Vibrator, 2"	Other Construc	290.3	186	1.6	Gasoline	3	0.42
SF - Eastern - 30	DMM Deep Soil Mixer, 3 Shaft,	Bore Drill Rig	180	186	1	Diesel	522	0.5
SF - Eastern - 30	DMM Grout Mix Plant w Delivery Pump	Other Industri	180	186	1	Diesel	500	0.34
SF - Eastern - 30	Gradall, 1.50 Cy, 282 Hp	Excavator	137.6	186	0.7	Diesel	282	0.38
SF - Eastern - 30	Grove RT Crane 30T	Crane	180	186	1	Diesel	160	0.29
SF - Eastern - 30	Grove RT Crane 55T, 247 hp	Crane	642.5	186	3.5	Diesel	247	0.29
SF - Eastern - 30	Grove RT Crane 80T, 275hp	Crane	137.5	186	0.7	Diesel	275	0.29
SF - Eastern - 30	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	3.9	186	0.0	Diesel	345	0.38
SF - Eastern - 30	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	597.3	186	3.2	Diesel	384	0.38
SF - Eastern - 30	Manitowoc 555 150T, 250' Boom	Crane	550	186	3.0	Diesel	760	0.29

SF - Eastern - 30	Manitowoc 999-275 Ton Crane	Crane	38	186	0.2	Diesel	900	0.29
SF - Eastern - 30	Portable, 20 Kw, Diesel, 36HP	Welders	550	186	3.0	Diesel Tier 4	36	0.45
SF - Eastern - 30	Portable, 90 Kw, Diesel, 158HP	Welders	80	186	<1	Diesel Tier 4	158	0.45
SF - Eastern - 30	Vibro Driver/Extractor V208	Other Construc	390	186	2.1	Diesel	325	0.42
SF - Eastern - 30	Water Pump, 4" Diesel	Pumps	32.3	186	0.2	Diesel	10	0.74
SF - Eastern - 30	Water Pump, 6" Diesel	Pumps	137.5	186	0.7	Diesel	13	0.74
SF - Eastern - 31	400A Diesel Welder, Trailer Mounted	Welders	1402.1	251	5.6	Diesel	22	0.45
SF - Eastern - 31	Air Compressor 1600 cfm	Air Compresso	683.4	251	2.7	Diesel Tier 4	540	0.48
SF - Eastern - 31	Air Compressor 185 cfm	Air Compresso	350	251	1.4	Diesel Tier 4	49	0.48
SF - Eastern - 31	Air Compressor 375 cfm	Air Compresso	250	251	1	Diesel Tier 4	122	0.48
SF - Eastern - 31	Bentonite Mix Plant/Desander	Cement & Mor	3481.1	251	13.9	Diesel Tier 4	100	0.56
SF - Eastern - 31	Boom Truck, 12.5 Tn Boom	Crane	175	251	0.7	Diesel or Hybrid	100	0.29
SF - Eastern - 31	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired L	7727.3	251	30.8	Diesel	110	0.36
SF - Eastern - 31	CAT 14 M	Grader	215.4	251	0.9	Diesel	274	0.41
SF - Eastern - 31	CAT 390 MASS EXC	Excavator	4091.1	251	16.3	Diesel	534	0.38
SF - Eastern - 31	CAT 950 H Wheel Loader	Rubber Tired L	33.3	251	0.1	Diesel or Hybrid	130	0.36
SF - Eastern - 31	CAT 962 H Wheel Loader	Rubber Tired L	3481.1	251	13.9	Diesel	230	0.36
SF - Eastern - 31	CAT 973 Track Loader, 4.2 cy, 263hp	Skid Loader	244	251	1.0	Diesel or Hybrid	210	0.37
SF - Eastern - 31	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	35.3	251	0.1	Diesel	158	0.38
SF - Eastern - 31	CAT D6LGPDozer w winch	Crawler	3481.1	251	13.9	Diesel or Hybrid	179	0.43
SF - Eastern - 31	CAT D3 LGP, Dozer	Tractor Crawler Tractor	33.3	251	0.1	Diesel or Hybrid	76	0.43
SF - Eastern - 31	CAT D8Rii, Dozer w winch	Crawler Tractor	410.8	251	1.6	Diesel	310	0.43
SF - Eastern - 31	Concrete Vibrator, 2"	Other Construc	4622.9	251	18.4	Gasoline	3	0.42
SF - Eastern - 31	DMM Deep Soil Mixer, 3 Shaft	Bore Drill Rig	250	251	1	Diesel	522	0.5
SF - Eastern - 31	DMM Grout Mix Plant w Delivery Pump	Other Industrie	250	251	1	Diesel	500	0.34
SF - Eastern - 31	Grove RT Crane 30T	Crane	250	251	1	Diesel	160	0.29
SF - Eastern - 31	Grove RT Crane 55T, 247 hp	Crane	472.5	251	1.9	Diesel	247	0.29
SF - Eastern - 31	Grove RT Crane 80T, 275hp	Crane	3811.3	251	15.2	Diesel	275	0.29
SF - Eastern - 31	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	815.4	251	3.2	Diesel	384	0.38
SF - Eastern - 31	Manitowoc 555 150T, 250' Boom	Crane	324	251	1.3	Diesel	760	0.29
SF - Eastern - 31	Manitowoc 999-275 Ton Crane	Crane	603.4	251	2.4	Diesel	900	0.29
SF - Eastern - 31	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	175	251	0.7	Diesel	75	0.31
SF - Eastern - 31	Portable, 90 Kw, Diesel, 158HP	Welders	4921.9	251	19.6	Diesel Tier 4	158	0.45
SF - Eastern - 31	Water Pump, 6" Diesel	Pumps	3481.1	251	13.9	Diesel	13	0.74
SF - Eastern - 31	Water Pump, 4" Diesel	Pumps	62.3	251	0.2	Diesel	10	0.74
SF - Eastern - 31	Well Drill	Bore/Drill Rigs	200	251	0.8	Diesel	136	0.5
SF - Eastern - 32	400A Diesel Welder, Trailer Mounted	Welders	140	138	1	Diesel	22	0.45
SF - Eastern - 32	Air Compressor 185 cfm	Air Compresso	500	138	3.6	Diesel Tier 4	49	0.48
SF - Eastern - 32	Air Compressor 375 cfm	Air Compresso	60	138	0.4	Diesel Tier 4	122	0.48
SF - Eastern - 32	Boom Truck, 12.5 Tn Boom	Crane	616.1	138	4.5	Diesel or Hybrid	100	0.29
SF - Eastern - 32	CAT IT28H, 10640 LB Tool Carrier	Rubber Tired L	222.2	138	1.6	Diesel	145	0.36
SF - Eastern - 32	Grove RT Crane 30T	Crane	500	138	3.6	Diesel	160	0.29
SF - Eastern - 32	Grove RT Crane 15T, 100hp	Crane	116.1	138	0.8	Diesel	100	0.29
SF - Eastern - 32	Grove RT Crane 80T, 275hp	Crane	1018	138	7.4	Diesel	275	0.29
SF - Eastern - 32	Manitowoc 555 150T, 250' Boom	Crane	237.2	138	1.7	Diesel	760	0.29
SF - Eastern - 32	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	500	138	3.6	Diesel	75	0.31
SF - Eastern - 33	Air Compressor 375 cfm	Air Compresso	5680	255	22.3	Diesel Tier 4	122	0.48
SF - Eastern - 33	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired L	5680	255	22.3	Diesel	110	0.36
SF - Eastern - 33	CAT 825, Roller	Roller	324	255	1.3	Diesel	315	0.38
SF - Eastern - 33	CAT 980 H Wheel Loader	Rubber Tired L	324	255	1.3	Diesel	393	0.36
SF - Eastern - 33	CAT CB-634D Vibratory 84"	Rollers	324	255	1.3	Diesel	145	0.38
SF - Eastern - 33	CAT D8 Dozer	Crawler	324	255	1.3	Diesel	328	0.43
SF - Eastern - 33	CAT Forklift 5,500 LB	Aerial Lift	800	255	3.1	Diesel	63	0.31
SF - Eastern - 33	CAT Grader 16H	Graders	324	255	1.3	Diesel	285	0.41
SF - Eastern - 33	DMM Deep Soil Mixer, 3 Shaft	Bore Drill Rig	2550	255	10	Diesel	522	0.5
SF - Eastern - 33	DMM Grout Mix Plant w Delivery Pump	Other Industrie	5680	255	22.3	Diesel	500	0.34
SF - Eastern - 33	Grove RT Crane 30T	Crane	5680	255	22.3	Diesel	160	0.29
SF - Eastern - 33	Hydraulic 40 Ton Crane	Crane	800	255	3.1	Diesel	300	0.29
SF - Eastern - 33	Hydraulic 9 Ton Crane	Crane	2201	255	8.6	Diesel	85	0.29
SF - Eastern - 33	Portable, 90 Kw, Diesel, 158HP	Welders	500	255	2	Diesel Tier 4	158	0.45
SF - Eastern - 34	Air Compressor 1600 cfm	Air Compresso	639	747	0.9	Diesel Tier 4	540	0.48
SF - Eastern - 34	250 CFM Compressor Diesel	Air Compresso	146	747	0.2	Diesel Tier 3	75	0.74
SF - Eastern - 34	CAT 950 H Wheel Loader	Rubber Tired L	1028.6	747	1.4	Diesel or Hybrid	130	0.36
SF - Eastern - 34	CAT CB-634D Vibratory 84"	Rollers	3090	747	4.1	Diesel	145	0.38
SF - Eastern - 34	CAT D8 Dozer	Crawler	3090	747	4.1	Diesel	328	0.43
SF - Eastern - 34	CAT Forklift 5,500 LB	Aerial Lift	16	747	0.0	Diesel	63	0.31
SF - Eastern - 34	CAT Grader 16H	Graders	3090	747	4.1	Diesel	285	0.41
SF - Eastern - 34	CAT Hyd Excavator 1CY	Excavator	785.2	747	1.1	Diesel	138	0.38
SF - Eastern - 34	Hydraulic 40 Ton Crane	Crane	304.6	747	0.4	Diesel	300	0.29
SF - Eastern - 34	Hydraulic 9 Ton Crane	Crane	16	747	0.0	Diesel	85	0.29
SF - Eastern - 34	Hydraulic 55 Ton Crane	Crane	1278	747	1.7	Diesel	350	0.29
SF - Eastern - 34	Manitowoc 777 200 Ton Crane	Crane	2365	747	3.2	Diesel	760	0.29
SF - Eastern - 34	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mor	639	747	1	Diesel	8	0.56
SF - Eastern - 34	Slurry Wall Techniwell	Pumps	639	747	1	Diesel	500	0.74
SF - Eastern - 35	150 KW Diesel Generator	Generator	100	90	1.1	Diesel Tier 4	183	0.74
SF - Eastern - 35	Air Compressor 1600 cfm	Air Compresso	160	90	1.8	Diesel Tier 4	540	0.48
SF - Eastern - 35	250 CFM Compressor Diesel	Air Compresso	1647.3	90	18.3	Diesel Tier 3	75	0.74
SF - Eastern - 35	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	368	90	4.1	Diesel Tier 4	210	0.38
SF - Eastern - 35	Water Pump, 6" Diesel	Pumps	400	90	4.4	Diesel	13	0.74
SF - Eastern - 35	Hydraulic 40 Ton Crane	Crane	760	90	8.4	Diesel	300	0.29
SF - Eastern - 35	Manitowoc 777 200 Ton Crane	Crane	922.9	90	10.3	Diesel	760	0.29
SF - Eastern - 35	Manitowoc 999-275 Ton Crane	Crane	393.6	90	4.4	Diesel	900	0.29
SF - Eastern - 35	Telescope RT Forklift 5500	Forklift	160	90	1.8	Diesel	63	0.2
SF - Eastern - 35	Truck Crane Lattice Boom 90T	Crane	160	90	1.8	Diesel Tier 4	300	0.29
SF - Eastern - 36	250 CFM Compressor Diesel	Air Compresso	5103.9	313	16.3	Diesel Tier 3	75	0.74
SF - Eastern - 36	CAT 988 H Wheel Loader	Rubber Tired L	2300	313	7.3	Diesel	400	0.36
SF - Eastern - 36	CAT D8 Dozer	Crawler	2300	313	7.3	Diesel	328	0.43

SF - Eastern - 36	CAT Forklift 5,500 LB	Aerial Lift	2590	313	8.3	Diesel	63	0.31
SF - Eastern - 36	Hydraulic 40 Ton Crane	Crane	2990	313	9.6	Diesel	300	0.29
SF - Eastern - 36	Hydraulic 9 Ton Crane	Crane	2590	313	8.3	Diesel	85	0.29
SF - Eastern - 37	Air Compressor 1600 cfm	Air Compresso	100	38	2.6	Diesel Tier 4	540	0.48
SF - Eastern - 37	Hydraulic 40 Ton Crane	Crane	100	38	2.6	Diesel	300	0.29
SF - Eastern - 37	Hydraulic 55 Ton Crane	Crane	715	38	18.8	Diesel	350	0.29
SF - Eastern - 37	Manitowoc 777 200 Ton Crane	Crane	715	38	18.8	Diesel	760	0.29
SF - Eastern - 37	Telescope RT Forklift 5500	Forklift	424	38	11.2	Diesel	63	0.2
SF - Eastern - 37	Truck Crane Lattice Boom 90T	Crane	100	38	2.6	Diesel Tier 4	300	0.29
SF - Eastern - 38	150 KW Diesel Generator	Generator	100	391	0.3	Diesel Tier 4	183	0.74
SF - Eastern - 38	Air Compressor 1600 cfm	Air Compresso	639	391	1.6	Diesel Tier 4	540	0.48
SF - Eastern - 38	250 CFM Compressor Diesel	Air Compresso	146	391	0.4	Diesel Tier 3	75	0.74
SF - Eastern - 38	Air Compressor 375 cfm	Air Compresso	2133	391	5.5	Diesel Tier 4	122	0.48
SF - Eastern - 38	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired L	2133	391	5.5	Diesel	110	0.36
SF - Eastern - 38	CAT 950 H Wheel Loader	Rubber Tired L	1028.6	391	2.6	Diesel or Hybrid	130	0.36
SF - Eastern - 38	CAT CB-634D Vibratory 84"	Rollers	3090	391	7.9	Diesel	145	0.38
SF - Eastern - 38	CAT D8 Dozer	Crawler	3090	391	7.9	Diesel	328	0.43
SF - Eastern - 38	CAT Forklift 5,500 LB	Aerial Lift	16	391	0.0	Diesel	63	0.31
SF - Eastern - 38	CAT Grader 16H	Graders	3090	391	7.9	Diesel	285	0.41
SF - Eastern - 38	CAT Hyd Excavator 1CY	Excavator	405.6	391	1.0	Diesel	138	0.38
SF - Eastern - 38	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	1278	391	3.3	Diesel Tier 4	210	0.38
SF - Eastern - 38	Water Pump, 6" Diesel	Pumps	400	391	1.0	Diesel	13	0.74
SF - Eastern - 38	DMM Deep Soil Mixer, 3 Shaft	Bore Drill Rig	2133	391	5.5	Diesel	522	0.5
SF - Eastern - 38	DMM Grout Mix Plant w Delivery Pump	Other Industri	2133	391	5.5	Diesel	500	0.34
SF - Eastern - 38	Grove RT Crane 30T	Crane	2133	391	5.5	Diesel	160	0.29
SF - Eastern - 38	Hydraulic 40 Ton Crane	Crane	304.6	391	0.8	Diesel	300	0.29
SF - Eastern - 38	Hydraulic 9 Ton Crane	Crane	116	391	0.3	Diesel	85	0.29
SF - Eastern - 38	Hydraulic 55 Ton Crane	Crane	1278	391	3.3	Diesel	350	0.29
SF - Eastern - 38	CAT Hyd Excavator 1CY	Excavator	380	391	1.0	Diesel	138	0.38
SF - Eastern - 38	Manitowoc 777 200 Ton Crane	Crane	1726	391	4.4	Diesel	760	0.29
SF - Eastern - 38	Manitowoc 200 Ton Crane	Crane	639	391	1.6	Diesel	760	0.29
SF - Eastern - 38	Portable, 90 Kw, Diesel, 158HP	Welders	400	391	1	Diesel Tier 4	158	0.45
SF - Eastern - 38	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mor	639	391	2	Diesel	8	0.56
SF - Eastern - 38	Slurry Wall Techniwell	Pumps	639	391	2	Diesel	500	0.74
SF - Eastern - 39	Air Compressor 1600 cfm	Air Compresso	160	460	0.3	Diesel Tier 4	540	0.48
SF - Eastern - 39	250 CFM Compressor Diesel	Air Compresso	1647.3	460	3.6	Diesel Tier 3	75	0.74
SF - Eastern - 39	Telescope RT Forklift 5500	Forklift	160	460	0.3	Diesel	63	0.2
SF - Eastern - 39	Truck Crane Lattice Boom 90T	Crane	160	460	0.3	Diesel Tier 4	300	0.29
SF - Eastern - 39	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	0	460	0.0	Diesel Tier 4	210	0.38
SF - Eastern - 39	Hydraulic 40 Ton Crane	Crane	660	460	1.4	Diesel	300	0.29
SF - Eastern - 39	Manitowoc 777 200 Ton Crane	Crane	922.9	460	2.0	Diesel	760	0.29
SF - Eastern - 39	Manitowoc 999-275 Ton Crane	Crane	393.6	460	0.9	Diesel	900	0.29
SF - Eastern - 40	250 CFM Compressor Diesel	Air Compresso	5115.3	345	14.8	Diesel Tier 3	75	0.74
SF - Eastern - 40	CAT 988 H Wheel Loader	Rubber Tired L	2305	345	6.7	Diesel	400	0.36
SF - Eastern - 40	CAT D8 Dozer	Crawler	2305	345	6.7	Diesel	328	0.43
SF - Eastern - 40	CAT Forklift 5,500 LB	Aerial Lift	2504	345	7.3	Diesel	63	0.31
SF - Eastern - 40	Hydraulic 40 Ton Crane	Crane	2904	345	8.4	Diesel	300	0.29
SF - Eastern - 40	Hydraulic 9 Ton Crane	Crane	2504	345	7.3	Diesel	85	0.29
SF - Eastern - 41	Air Compressor 1600 cfm	Air Compresso	100	37	2.7	Diesel Tier 4	540	0.48
SF - Eastern - 41	Hydraulic 40 Ton Crane	Crane	100	37	2.7	Diesel	300	0.29
SF - Eastern - 41	Hydraulic 55 Ton Crane	Crane	715	37	19.3	Diesel	350	0.29
SF - Eastern - 41	Manitowoc 777 200 Ton Crane	Crane	715	37	19.3	Diesel	760	0.29
SF - Eastern - 41	Telescope RT Forklift 5500	Forklift	424	37	11.5	Diesel	63	0.2
SF - Eastern - 41	Truck Crane Lattice Boom 90T	Crane	100	37	2.7	Diesel Tier 4	300	0.29
SF - Eastern - 42	Air Compressor 375 cfm	Air Compresso	3547	2099	1.7	Diesel Tier 4	122	0.48
SF - Eastern - 42	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired L	3547	2099	1.7	Diesel	110	0.36
SF - Eastern - 42	CAT 825, Roller	Roller	202	2099	0.1	Diesel	315	0.38
SF - Eastern - 42	CAT 980 H Wheel Loader	Rubber Tired L	202	2099	0.1	Diesel	393	0.36
SF - Eastern - 42	CAT CB-634D Vibratory 84"	Rollers	4054.4	2099	1.9	Diesel	145	0.38
SF - Eastern - 42	CAT D8 Dozer	Crawler	4054.7	2099	1.9	Diesel	328	0.43
SF - Eastern - 42	CAT Forklift 5,500 LB	Aerial Lift	400	2099	0.2	Diesel	63	0.31
SF - Eastern - 42	CAT Grader 16H	Graders	4054.4	2099	1.9	Diesel	285	0.41
SF - Eastern - 42	DMM Deep Soil Mixer, 3 Shaft	Bore Drill Rig	3547	2099	1.7	Diesel	522	0.5
SF - Eastern - 42	DMM Grout Mix Plant w Delivery Pump	Other Industri	3547	2099	1.7	Diesel	500	0.34
SF - Eastern - 42	Grove RT Crane 30T	Crane	3547	2099	1.7	Diesel	160	0.29
SF - Eastern - 42	Hydraulic 40 Ton Crane	Crane	400	2099	0.2	Diesel	300	0.29
SF - Eastern - 42	Hydraulic 9 Ton Crane	Crane	463	2099	0.2	Diesel	85	0.29
SF - Eastern - 42	Portable, 90 Kw, Diesel, 158HP	Welders	1000	2099	0.4	Diesel Tier 4	158	0.45
SF - Eastern - 43	150 KW Diesel Generator	Generator	95.7	238	0.4	Diesel Tier 4	183	0.74
SF - Eastern - 43	Air Compressor 1600 cfm	Air Compresso	611.2	238	2.6	Diesel Tier 4	540	0.48
SF - Eastern - 43	250 CFM Compressor Diesel	Air Compresso	139.7	238	0.6	Diesel Tier 3	75	0.74
SF - Eastern - 43	CAT 825, Roller	Roller	116.7	238	0.5	Diesel	315	0.38
SF - Eastern - 43	CAT 950 H Wheel Loader	Rubber Tired L	983.9	238	4.1	Diesel or Hybrid	130	0.36
SF - Eastern - 43	CAT 980 H Wheel Loader	Rubber Tired L	116.7	238	0.5	Diesel	393	0.36
SF - Eastern - 43	CAT CB-634D Vibratory 84"	Rollers	116.7	238	0.5	Diesel	145	0.38
SF - Eastern - 43	CAT D8 Dozer	Crawler	116.7	238	0.5	Diesel	328	0.43
SF - Eastern - 43	CAT Forklift 5,500 LB	Aerial Lift	15.3	238	0.1	Diesel	63	0.31
SF - Eastern - 43	CAT Grader 16H	Graders	116.7	238	0.5	Diesel	285	0.41
SF - Eastern - 43	CAT Hyd Excavator 1CY	Excavator	388	238	1.6	Diesel	138	0.38
SF - Eastern - 43	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	1577.4	238	6.6	Diesel Tier 4	210	0.38
SF - Eastern - 43	Water Pump, 6" Diesel	Pumps	382.6	238	1.6	Diesel	13	0.74
SF - Eastern - 43	Hydraulic 40 Ton Crane	Crane	101.4	238	0.4	Diesel	300	0.29
SF - Eastern - 43	Hydraulic 9 Ton Crane	Crane	829.2	238	3.5	Diesel	85	0.29
SF - Eastern - 43	Hydraulic 55 Ton Crane	Crane	611.2	238	2.6	Diesel	350	0.29
SF - Eastern - 43	CAT Hyd Excavator 1CY	Excavator	363.5	238	1.5	Diesel	138	0.38
SF - Eastern - 43	Manitowoc 200 Ton Crane	Crane	537.6	238	2.3	Diesel	760	0.29
SF - Eastern - 43	Manitowoc 777 200 Ton Crane	Crane	1445.4	238	6.1	Diesel	760	0.29
SF - Eastern - 43	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mor	611.2	238	3	Diesel	8	0.56

SF - Eastern - 43	Slurry Wall Techniwell	Pumps	611.2	238	3	Diesel	500	0.74
SF - Eastern - 44	250 CFM Compressor Diesel	Air Compresso	965.9	85	11.4	Diesel Tier 3	75	0.74
SF - Eastern - 44	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	0	85	0.0	Diesel Tier 4	210	0.38
SF - Eastern - 44	Manitowoc 777 200 Ton Crane	Crane	829	85	9.8	Diesel	760	0.29
SF - Eastern - 44	Manitowoc 999-275 Ton Crane	Crane	306.1	85	3.6	Diesel	900	0.29
SF - Eastern - 45	CAT 631G Scraper, Conventional	Scraper		165	0.0	Diesel	515	0.48
SF - Eastern - 45	CAT 980 H Wheel Loader	Rubber Tired L	1334.6	165	8.1	Diesel	393	0.36
SF - Eastern - 45	CAT CB-634D Vibratory 84"	Rollers	2901.1	165	17.6	Diesel	145	0.38
SF - Eastern - 45	CAT D8 Dozer	Crawler	1334.6	165	8.1	Diesel	328	0.43
SF - Eastern - 45	CAT Grader 16H	Graders	4235.7	165	25.7	Diesel	285	0.41
SF - Eastern - 46	150 KW Diesel Generator	Generator	0	442	0	Diesel Tier 4	183	0.74
SF - Eastern - 46	Air Compressor 1600 cfm	Air Compresso	611.2	442	1.4	Diesel Tier 4	540	0.48
SF - Eastern - 46	250 CFM Compressor Diesel	Air Compresso	139.7	442	0.3	Diesel Tier 3	75	0.74
SF - Eastern - 46	CAT 950 H Wheel Loader	Rubber Tired L	983.9	442	2.2	Diesel or Hybrid	130	0.36
SF - Eastern - 46	CAT CB-634D Vibratory 84"	Rollers	3445	442	7.8	Diesel	145	0.38
SF - Eastern - 46	CAT D8 Dozer	Crawler	3445	442	7.8	Diesel	328	0.43
SF - Eastern - 46	CAT Forklift 5,500 LB	Aerial Lift	91.8	442	0.2	Diesel	63	0.31
SF - Eastern - 46	CAT Grader 16H	Graders	3445	442	7.8	Diesel	285	0.41
SF - Eastern - 46	CAT Hyd Excavator 1CY	Excavator	388	442	0.9	Diesel	138	0.38
SF - Eastern - 46	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	0	442	0.0	Diesel Tier 4	210	0.38
SF - Eastern - 46	Water Pump, 6" Diesel	Pumps	382.6	442	0.9	Diesel	13	0.74
SF - Eastern - 46	Hydraulic 40 Ton Crane	Crane	367.9	442	0.8	Diesel	300	0.29
SF - Eastern - 46	Hydraulic 9 Ton Crane	Crane	187.5	442	0.4	Diesel	85	0.29
SF - Eastern - 46	Hydraulic 55 Ton Crane	Crane	1148.8	442	2.6	Diesel	350	0.29
SF - Eastern - 46	CAT Hyd Excavator 1CY	Excavator	363.5	442	0.8	Diesel	138	0.38
SF - Eastern - 46	Manitowoc 200 Ton Crane	Crane	537.6	442	1.2	Diesel	760	0.29
SF - Eastern - 46	Manitowoc 777 200 Ton Crane	Crane	1445.6	442	3.3	Diesel	760	0.29
SF - Eastern - 46	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mor	611.2	442	1	Diesel	8	0.56
SF - Eastern - 46	Slurry Wall Techniwell	Pumps	611.2	442	1	Diesel	500	0.74
SF - Eastern - 47	Air Compressor 1600 cfm	Air Compresso	160	50	3.2	Diesel Tier 4	540	0.48
SF - Eastern - 47	250 CFM Compressor Diesel	Air Compresso	923.9	50	18.5	Diesel Tier 3	75	0.74
SF - Eastern - 47	Hydraulic 40 Ton Crane	Crane	160	50	3.2	Diesel	300	0.29
SF - Eastern - 47	Manitowoc 777 200 Ton Crane	Crane	792.9	50	15.9	Diesel	760	0.29
SF - Eastern - 47	Manitowoc 999-275 Ton Crane	Crane	292.8	50	5.9	Diesel	900	0.29
SF - Eastern - 47	Telescope RT Forklift 5500	Forklift	160	50	3.2	Diesel	63	0.2
SF - Eastern - 47	Truck Crane Lattice Boom 90T	Crane	160	50	3.2	Diesel Tier 4	300	0.29
SF - Eastern - 48	250 CFM Compressor Diesel	Air Compresso	27867.8	1792	15.6	Diesel Tier 3	75	0.74
SF - Eastern - 48	CAT 988 H Wheel Loader	Rubber Tired L	9050.9	1792	5.1	Diesel	400	0.36
SF - Eastern - 48	CAT D8 Dozer	Crawler	9050.9	1792	5.1	Diesel	328	0.43
SF - Eastern - 48	CAT Forklift 5,500 LB	Aerial Lift	13054.8	1792	7.3	Diesel	63	0.31
SF - Eastern - 48	Hydraulic 40 Ton Crane	Crane	13810.8	1792	7.7	Diesel	300	0.29
SF - Eastern - 48	Hydraulic 9 Ton Crane	Crane	13810.8	1792	7.7	Diesel	85	0.29
SF - Eastern - 48	Manitowoc 777 200 Ton Crane	Crane	336	1792	0.2	Diesel	760	0.29
SF - Eastern - 49	400A Diesel Welder, Trailer Mounted	Welders	100	71	1.4	Diesel	22	0.45
SF - Eastern - 49	Air Compressor 1600 cfm	Air Compresso	100	71	1.4	Diesel Tier 4	540	0.48
SF - Eastern - 49	CAT Forklift 5,500 LB	Aerial Lift	285.1	71	4.0	Diesel	63	0.31
SF - Eastern - 49	Hydraulic 9 Ton Crane	Crane	76.5	71	1.1	Diesel	85	0.29
SF - Eastern - 49	Hydraulic 40 Ton Crane	Crane	176.5	71	2.5	Diesel	300	0.29
SF - Eastern - 49	Hydraulic 55 Ton Crane	Crane	923.6	71	13.0	Diesel	350	0.29
SF - Eastern - 49	Manitowoc 777 200 Ton Crane	Crane	715	71	10.1	Diesel	760	0.29
SF - Eastern - 49	Telescope RT Forklift 5500	Forklift	667.3	71	9.4	Diesel	63	0.2
SF - Eastern - 49	Truck Crane Lattice Boom 90T	Crane	100	71	1.4	Diesel Tier 4	300	0.29
SF - Eastern - 50	Air Compressor 1600 cfm	Air Compresso	384	40	9.6	Diesel Tier 4	540	0.48
SF - Eastern - 50	Boom Truck, 12.5 Tn Boom	Crane	192	40	4.8	Diesel or Hybrid	100	0.29
SF - Eastern - 50	Grove RT Crane 80T, 275hp	Crane	384	40	9.6	Diesel	275	0.29
SF - Eastern - 50	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	192	40	4.8	Diesel	75	0.31
SF - Eastern - 51	Air Compressor 1600 cfm	Air Compresso	400	85	4.7	Diesel Tier 4	540	0.48
SF - Eastern - 51	Boom Truck, 12.5 Tn Boom	Crane	200	85	2.4	Diesel or Hybrid	100	0.29
SF - Eastern - 51	Grove RT Crane 80T, 275hp	Crane	400	85	4.7	Diesel	275	0.29
SF - Eastern - 51	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	200	85	2.4	Diesel	75	0.31
SF - Eastern - 52	400A Diesel Welder, Trailer Mounted	Welders	3421	2205	1.6	Diesel	22	0.45
SF - Eastern - 52	Bobcat S630 Skid Steer Loader	Skid Loader	17104.9	2205	7.8	Diesel	74	0.37
SF - Eastern - 52	CAT 962 H Wheel Loader	Rubber Tired L	34440.5	2205	15.6	Diesel	230	0.36
SF - Eastern - 52	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	8287.3	2205	3.8	Diesel Tier 4	210	0.38
SF - Eastern - 52	Portable, 300 Kw, Diesel, 36HP	Welders	34209.7	2205	15.5	Diesel Tier 4	400	0.45
SF - Eastern - 53	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	101	12	8	Diesel or Hybrid	224	0.42
SF - Eastern - 53	Asphalt Rollier, 2 Drum 12tn, 137hp	Roller	101	12	8	Diesel or Hybrid	137	0.38
SF - Eastern - 53	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	101	12	8	Diesel or Hybrid	133	0.38
SF - Eastern - 53	CAT LOADER/HOE 416 E	Rubber Tired L	101	12	8.4	Diesel	78	0.36
SF - Eastern - 54	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	101	10	10	Diesel or Hybrid	224	0.42
SF - Eastern - 54	Asphalt Rollier, 2 Drum 12tn, 137hp	Roller	101	10	10	Diesel or Hybrid	137	0.38
SF - Eastern - 54	Asphalt Roller, 17.6 Tn Pneumatic,133hp	Roller	101	10	10	Diesel or Hybrid	133	0.38
SF - Eastern - 54	CAT LOADER/HOE 416 E	Rubber Tired L	101	10	10.1	Diesel	78	0.36
SF - Eastern - 55	CAT 12 M	Grader	210	257	0.8	Diesel	173	0.41
SF - Eastern - 55	CAT 390 MASS EXC	Excavator	200	257	0.8	Diesel	534	0.38
SF - Eastern - 55	CAT D8Rii, Dozer w winch	Crawler	2000	257	7.8	Diesel	310	0.43
SF - Eastern - 55	CAT 631G Scraper, Conventional	Scraper	2000	257	7.8	Diesel	515	0.48
SF - Eastern - 55	Disk, Towed	Off Highway	320	257	1.2	Diesel	140	0.44
SF - Eastern - 55	CAT 966 Gil Wheel Loader	Rubber Tired L	40	257	0.2	Diesel	286	0.36
SF - Eastern - 55	CAT D9R, Dozer w ripper	Crawler	1180	257	4.6	Diesel	410	0.43
SF - Eastern - 55	Farm Tractor, All Wheel Drive, 80 HP	Tractor	640	257	2.5	Diesel	80	0.44
SF - Eastern - 55	Hydro Mulcher, 18 HP	Pumps	120	257	0.5	Diesel	25	0.74

SF - Eastern - 55	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	1000	257	3.9	Diesel	345	0.38
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**Offroad Equipment (Electric) Inventory for Southern Complex on Byron Tract - Eastern
Option 6**

Electricity for TBM Operations included in the Summary Workbook

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
SF - Eastern - 1	400A, Electric Welder	8.9	208	15	0.642
SF - Eastern - 2	400A, Electric Welder	44.4	324	15	2.056
SF - Eastern - 6	400A, Electric Welder	759.3	154	15	73.958
SF - Eastern - 6	Water Pump, 4" Electrical, Submersible	15187.2	154	1	98.618
SF - Eastern - 7	400A, Electric Welder	2815.9	710	15	59.491
SF - Eastern - 9	400A, Electric Welder	960	201	15	71.642
SF - Eastern - 9	Water Pump, 4" Electrical, Submersible	576	201	1	2.866
SF - Eastern - 10	Water Pump, 4" Electrical, Submersible	46.8	72	1	0.650
SF - Eastern - 11	400A, Electric Welder	890	277	15	48.195
SF - Eastern - 12	400A, Electric Welder	3251.8	712	15	68.507
SF - Eastern - 12	Water Pump, 4" Electrical, Submersible	7833.9	712	1	11.003
SF - Eastern - 13	400A, Electric Welder	4528.7	794	15	85.555
SF - Eastern - 13	Water Pump, 4" Electrical, Submersible	3867.4	794	1	4.871
SF - Eastern - 14	Water Pump, 4" Electrical, Submersible	6058.8	649	1	9.336
SF - Eastern - 15B	400A, Electric Welder	861.4	335	15	38.570
SF - Eastern - 15B	Water Pump, 4" Electrical, Submersible	3445.7	335	1	10.286
SF - Eastern - 16	400A, Electric Welder	1100.8	147	15	112.327
SF - Eastern - 16	Water Pump, 4" Electrical, Submersible	578.1	147	1	3.933
SF - Eastern - 17	400A, Electric Welder	77.7	33	15	35.318
SF - Eastern - 17	Water Pump, 4" Electrical, Submersible	155.4	33	1	4.709
SF - Eastern - 18	400A, Electric Welder	0.2	29	15	0.103
SF - Eastern - 18	Water Pump, 4" Electrical, Submersible	84.7	29	1	2.921
SF - Eastern - 19	400A, Electric Welder	775.6	325	15	35.797
SF - Eastern - 19	Water Pump, 4" Electrical, Submersible	1551.2	325	1	4.773
SF - Eastern - 20	400A, Electric Welder	5817.9	680	15	128.336
SF - Eastern - 20	Water Pump, 4" Electrical, Submersible	4242.8	680	1	6.239
SF - Eastern - 21	400A, Electric Welder	3200	880	15	54.545
SF - Eastern - 23	400A, Electric Welder	120.5	160	15	11.297
SF - Eastern - 26	Water Pump, 4" Electrical, Submersible	20738.5	1355	1	15.305
SF - Eastern - 29	Water Pump, 6" Electrical, Submersible	535.4	535	1	1.001
SF - Eastern - 30	Water Pump, 4" Electrical, Submersible	1173	186	1	6.306
SF - Eastern - 30	Water Pump, 6" Electrical, Submersible	38	186	1	0.204
SF - Eastern - 31	400A, Electric Welder	350	251	15	20.916
SF - Eastern - 31	Water Pump, 4" Electrical, Submersible	21569.1	251	1	85.933
SF - Eastern - 31	Water Pump, 6" Electrical, Submersible	506.6	251	1	2.018
SF - Eastern - 32	400A, Electric Welder	500	138	15	54.348
SF - Eastern - 33	Water Pump, 4" Electrical, Submersible	5680	255	1	22.275
SF - Eastern - 35	Gantry Crane	500	90	0.25	1
SF - Eastern - 36	Axial Fan 114,000 CFM	18465	313	50	2,950
SF - Eastern - 36	Gantry Crane	9170	313	0.25	7
SF - Eastern - 38	Water Pump, 4" Electrical, Submersible	2133	391	1	5.455

SF - Eastern - 39	Gantry Crane	500	460	0.25	0
SF - Eastern - 40	Axial Fan 114,000 CFM	18491	345	50	2,680
SF - Eastern - 40	Gantry Crane	9181	345	0.25	7
SF - Eastern - 41	Gantry Crane	237	37	0.25	2
SF - Eastern - 42	Water Pump, 4" Electrical, Submersible	3547	2099	1	1.690
SF - Eastern - 48	Axial Fan 114,000 CFM	239429.5	1792	50	6,681
SF - Eastern - 48	Gantry Crane	42819.5	1792	0.25	6
SF - Eastern - 49	Gantry Crane	775.9	71	0.25	3
SF - Eastern - 50	400A, Electric Welder	384	40	15	144.000
SF - Eastern - 51	400A, Electric Welder	400	85	15	70.588
SF - Eastern - 3	1864.4	253	253		
SF - Eastern -4	813.4	318	318		
SF - Eastern - 14	345.6	649	649		
SF - Eastern - 19	12.7	325	325		
SF -Eastern - 29	124800	1355	1355		
SF - Eastern - 30	1077.7	186	186		

Vehicle Inventory for Southern Complex on Byron Tract - Eastern

Option 6

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs.)	# day	Vehicle Hours	Hours/Trip	# of Vehicles/trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/hr)
Vehicle Use on Paved Roads --- and Not on Construction Site												
SF - Eastern - 1	Pickup 1/2T 2 WD	Materials from Stockton	208	3208.9	1.1	3008	14.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 1	Pickup, 3/4T, 4wd	Materials from Stockton	208	3200.0	1.1	3000	14.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 1	Truck Flatbed 4 T Highway	Materials from Stockton	208	799.7	1.1	750	3.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 1	Truck Flatbed 4 T Highway	Two Cranes and one lift from Stockton	1	3.2	1.1	3	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 2	Pickup 1/2T 2 WD	Materials from Stockton	324	16044.4	1.1	15042	46.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 2	Pickup, 3/4T, 4wd	Materials from Stockton	324	16000.0	1.1	15000	46.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 2	Truck Flatbed 4 T Highway	Materials from Stockton	324	4000.3	1.1	3750	11.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 3	Pickup 1/2T 2 WD	Materials from Stockton	253	2480.0	1.1	2325	9.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 3	Pickup, 3/4T, 4wd	Materials from Stockton	253	620.2	1.1	581	2.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 3	Truck End Dump/ 10-13cy Hwy	Materials from Stockton	253	378.7	1.1	355	1.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 3	Truck Flatbed 4 T Highway	Cone, Two Rollers, two Loaders, Tractor, Grader, and Excavator	1	8.5	1.1	8	8.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 4	Pickup 1/2T 2 WD	Materials from Stockton	318	1761.3	1.1	1651	5.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 4	Pickup, 3/4T, 4wd	Materials from Stockton	318	545.3	1.1	511	1.6	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 4	Truck End Dump/ 10-13cy Hwy	Materials from Stockton	318	407.3	1.1	382	1.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 4	Truck Flatbed 4 T Highway	Materials from Stockton	318	1434.2	1.1	1335	4.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 4	Truck, Flatbed, 10T, Hwy	Materials from Stockton	318	30.4	1.1	29	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 4	Truck Flatbed 4 T Highway	Materials from Stockton	318	2511.2	1.1	2373	7.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 4	Truck End Dump/ 16-20cy Hwy	Base Rock and Gravel from Vernalis	318	968.8	0.7	1384	4	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Eastern - 4	Truck Flatbed 4 T Highway	One Roller and one Crane from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 4	Truck Flatbed 4 T Highway	Asphalt Paver and 2 Rollers from and to Stockton	2	6.4	1.1	6	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 5	Pickup 1/2T 2 WD	Materials from Stockton	22	153.6	1.1	144	6.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 5	Pickup, 3/4T, 4wd	Materials from Stockton	22	100.0	1.1	94	4.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 5	Truck End Dump/ 10-13cy Hwy	Materials from Stockton	22	307.2	1.1	288	13.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 5	Truck Flatbed 4 T Highway	Materials from Stockton	22	1261.9	1.1	1183	53.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 5	Truck, Flatbed, 10T, Hwy	Nubar from Livermore	22	6.2	0.6	11	0.5	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel	
SF - Eastern - 5	Truck End Dump/ 16-20cy Hwy	Base Rock, Gravel, and Flyash from Vernalis	22	4202.0	0.7	6003	273	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Eastern - 5	Truck End Dump/ 10-13cy Hwy	Cement, Aggregate, and Sand from Stockton	22	279.9	1.1	262	11.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 5	Truck & Bottom Dump/ 21cy 30T	Asphalt, Hot Mix Delivered from Vernalis	22	153	0.7	219	10.0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel Tier 4	
SF - Eastern - 5	Truck Flatbed 4 T Highway	Two Loaders and Tractor from Stockton	1	3.2	1.1	3	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 6	Mechanics Truck	Materials from Stockton	154	15187.2	1.1	14238	92	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 6	Pickup 1/2T 2 WD	Materials from Stockton	154	15946.5	1.1	14950	97.1	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 6	Truck Flatbed 4 T Highway	Materials from Stockton	154	15187.2	1.1	14238	92.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 6	Truck Flatbed 4 T Highway	Materials from Stockton	154	115.2	1.1	108	0.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 6	Truck Flatbed 4 T Highway	One Loader from Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 7	Pickup 1/2T 2 WD	Materials from Stockton	710	2892.7	1.1	2712	3.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 7	Truck End Dump/ 10-13cy Hwy	Materials from Stockton	710	192.0	1.1	180	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 7	Truck Flatbed 4 T Highway	Materials from Stockton	710	14976.0	1.1	14040	19.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 7	Truck Flatbed 4 T Highway	Materials from Stockton	710	385.1	1.1	361	0.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 7	Truck End Dump/ 16-20cy Hwy	Base Rock from Vernalis	710	7771.4	0.7	1102	16	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Eastern - 8	Truck Flatbed 4 T Highway	Materials from Stockton	1201	9984.0	1.1	9360	7.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 8	Truck Flatbed 10 T Highway	Materials from Stockton	1201	6877.6	1.1	6448	5.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 8	Truck End Dump/ 16-20cy Hwy	Base Rock, Gravel, and Flyash from Vernalis	1201	10095.4	0.7	14422	12	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Eastern - 8	Truck Flatbed 4 T Highway	Two Cranes from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 9	Pickup 1/2T 2 WD	Materials from Stockton	201	1534.4	1.1	1439	7.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 9	Pickup, 3/4T, 4wd	Materials from Stockton	201	80.0	1.1	75	0.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 9	Truck End Dump/ 10-13cy Hwy	Materials from Stockton	201	128.0	1.1	120	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 9	Truck Flatbed 4 T Highway	Materials from Stockton	201	256.0	1.1	240	1.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 9	Truck, Tractor, 75000#, 6 x 4	Materials from Stockton	201	38.4	1.1	36	0.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 9	Truck Flatbed 4 T Highway	Materials from Stockton	201	1043.2	1.1	978	4.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 9	Truck, Flatbed, 10T, Hwy	Nubar from Livermore	201	332.1	0.6	586	2.9	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel	
SF - Eastern - 9	Truck End Dump/ 16-20cy Hwy	Gravel and Flyash from Vernalis	201	1857.8	0.7	2654	13	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Eastern - 9	Truck End Dump/ 10-13cy Hwy	Cement, Aggregate, and Sand from Stockton	201	252.8	1.1	237	1.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 9	Truck Flatbed 4 T Highway	Loader and Crane from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 10	Truck, Flatbed, 10T, Hwy	Materials from Stockton	72	78.0	1.1	73	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 10	Pickup, 3/4T, 4wd	Materials from Stockton	72	71.2	1.1	67	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 10	Truck Flatbed 4 T Highway	Materials from Stockton	72	50.1	1.1	47	0.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 10	Truck, Flatbed, 10T, Hwy	Nubar from Livermore	72	22.7	0.6	40	0.6	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel	
SF - Eastern - 10	Truck End Dump/ 16-20cy Hwy	Flyash from Vernalis	72	55.3	0.7	79	1	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Eastern - 10	Truck End Dump/ 10-13cy Hwy	Cement, Aggregate, and Sand from Stockton	72	2533.0	1.1	2375	33.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 11	Mechanics Truck	Materials from Stockton	277	8220.4	1.1	7707	28	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 11	Pickup 1/2T 2 WD	Materials from Stockton	277	8009.2	1.1	7503	27.1	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 11	Pickup, 3/4T, 4wd	Materials from Stockton	277	200.4	1.1	188	0.7	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 11	Truck Flatbed 4 T Highway	Materials from Stockton	277	8220.4	1.1	7707	27.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 11	Truck Flatbed 4 T Highway	Materials from Stockton	277	146.1	1.1	137	0.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 11	Truck, Flatbed, 10T, Hwy	Nubar from Livermore	277	46.5	0.6	82	0.3	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel	
SF - Eastern - 11	Truck End Dump/ 16-20cy Hwy	Flyash from Vernalis	277	26.9	0.7	38	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Eastern - 11	Truck End Dump/ 10-13cy Hwy	Cement, Aggregate, and Sand from Stockton	277	1230.5	1.1	1154	4.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 12	Truck, Tractor, 75000#, 6 x 4	Materials from Stockton	712	8846.8	1.1	8294	11.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 12	Pickup 1/2T 2 WD	Materials from Stockton	712	10754.3	1.1	10082	14.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 12	Truck Flatbed 4 T Highway	Cone, Two Excavators, and Tractor from Stockton	1	4.3	1.1	4	4.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 13	Pickup 1/2T 2 WD	Materials from Stockton	794	6756.9	1.1	6335	8.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 13	Pickup, 3/4T, 4wd	Materials from Stockton	794	32.9	1.1	31	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 13	Truck Flatbed 4 T Highway	Materials from Stockton	794	2807.8	1.1	2632	3.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 13	Truck, Tractor, 75000#, 6 x 4	Materials from Stockton	794	1632.1	1.1	1530	1.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	

SF - Eastern - 13	Truck Flatbed 4 T Highway	Crane from Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 14	Pickup 1/2T 2 WD	Materials from Stockton	649	2299.5	1.1	2156	3.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 14	Truck Flatbed 4 T Highway	Materials from Stockton	649	196.4	1.1	184	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 14	Truck' End Dump' 10-13cy' Hwy	Cement, Aggregate, and Sand from Stockton	649	492.7	1.1	462	0.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 14	Truck, Flatbed, 10T, Hwy	Rbar from Livermore	649	4.0	0.6	7	0.0	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern - 14	Truck' End Dump' 16-20cy' Hwy	Flyash from Vernalis	649	10.8	0.7	15	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 15A	Truck, Tractor, 75000#, 6 x 4	Materials from Stockton	265	1497.6	1.1	1404	5.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 15B	Pickup 1/2T 2 WD	Materials from Stockton	335	1521.9	1.1	1427	4.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 15B	Pickup, 3/4T, 4wd	Materials from Stockton	335	380.5	1.1	357	1.1	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 15B	Truck Flatbed 4 T Highway	Materials from Stockton	335	591.7	1.1	555	1.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 15B	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	335	202.7	1.1	190	1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 15B	Truck' End Dump' 10-13cy' Hwy	Cement, Aggregate, and Sand from Stockton	335	1230.4	1.1	1154	3.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 15B	Truck, Flatbed, 10T, Hwy	Rbar from Livermore	335	46.5	0.6	82	0.2	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern - 15B	Truck' End Dump' 16-20cy' Hwy	Flyash from Vernalis	335	26.9	0.7	38	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 15B	Truck Flatbed 4 T Highway	Loader from Stockton	335	1.1	1.1	1	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 16	Pickup 1/2T 2 WD	Materials from Stockton	147	1100.8	1.1	1032	7.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 16	Pickup, 3/4T, 4wd	Materials from Stockton	147	72.3	1.1	68	0.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 16	Truck' End Dump' 16-20cy' Hwy	Flyash from Vernalis	147	22.0	0.7	31	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 17	Pickup 1/2T 2 WD	Materials from Stockton	33	1232.0	1.1	1155	35.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 17	Pickup, 3/4T, 4wd	Materials from Stockton	33	10.9	1.1	10	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 18	Pickup 1/2T 2 WD	Materials from Stockton	29	0.2	1.1	0	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 18	Pickup, 3/4T, 4wd	Materials from Stockton	29	24.2	1.1	23	0.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 18	Truck' End Dump' 10-13cy' Hwy	Cement, Aggregate, and Sand from Stockton	29	492.7	1.1	462	15.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 18	Truck' End Dump' 16-20cy' Hwy	Flyash from Vernalis	29	10.8	0.7	15	1	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 18	Truck, Flatbed, 10T, Hwy	Rbar from Livermore	29	4.1	0.6	7	0.3	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern - 19	Pickup 1/2T 2 WD	Materials from Stockton	325	3495.5	1.1	3277	10.1	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 19	Pickup, 3/4T, 4wd	Materials from Stockton	325	509.2	1.1	477	1.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 19	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	325	173.1	1.1	162	0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 19	Truck' End Dump' 10-13cy' Hwy	Materials from Stockton	325	187.5	1.1	176	0.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 19	Truck Flatbed 4 T Highway	Materials from Stockton	325	316.8	1.1	297	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 19	Truck Flatbed 10 T Highway	Materials from Stockton	325	959.9	1.1	1369	4.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 19	Truck, Tractor, 75000#, 6 x 4	Materials from Stockton	325	115.4	1.1	108	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 19	Truck Flatbed 4 T Highway	Materials from Stockton	325	108.8	1.1	102	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 19	Truck, Flatbed, 10T, Hwy	Rbar from Livermore	325	51.0	0.6	90	0.3	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern - 19	Truck' End Dump' 16-20cy' Hwy	Flyash from Vernalis	325	41.4	0.7	59	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 19	Truck' End Dump' 10-13cy' Hwy	Cement, Aggregate, and Sand from Stockton	325	1894.5	1.1	1776	5.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 20	Truck Flatbed 10 T Highway	Materials from Stockton	680	1863.9	1.1	1369	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 20	Truck, Tractor, 75000#, 6 x 4	Materials from Stockton	680	710.4	1.1	666	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 20	Truck' End Dump' 16-20cy' Hwy	Flyash from Vernalis	680	30.5	0.7	44	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 20	Truck' End Dump' 10-13cy' Hwy	Cement, Aggregate, and Sand from Stockton	680	1393.9	1.1	1307	1.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 21	Pickup 1/2T 2 WD	Materials from Stockton	880	3200.0	1.1	3000	3.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 22	Pickup 1/2T 2 WD	Materials from Stockton	269	2112.0	1.1	1980	7.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 22	Truck Flatbed 4 T Highway	Materials from Stockton	269	2016.0	1.1	1890	7.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 22	Truck Flatbed 10 T Highway	Materials from Stockton	269	96.0	1.1	90	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 22	Truck, Tractor, 75000#, 6 x 4	Materials from Stockton	269	240.0	1.1	225	0.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 22	Truck' End Dump' 16-20cy' Hwy	Flyash from Vernalis	269	18.3	0.7	26	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 22	Truck' End Dump' 10-13cy' Hwy	Cement, Aggregate, and Sand from Stockton	269	837.1	1.1	785	2.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 22	Truck, Flatbed, 10T, Hwy	Rbar from Livermore	269	5.1	0.6	9	0.0	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern - 23	Pickup 1/2T 2 WD	Materials from Stockton	160	14561.4	1.1	13651	85.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 23	Pickup, 3/4T, 4wd	Materials from Stockton	160	208.8	1.1	196	1.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 23	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	160	11327.6	1.1	12307	77	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 23	Truck' End Dump' 10-13cy' Hwy	Materials from Stockton	160	302.4	1.1	284	1.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 23	Truck, Flatbed, 10T, Hwy	Materials from Stockton	160	39.6	1.1	37	0.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 23	Truck' End Dump' 16-20cy' Hwy	Base Rock from Vernalis	160	1579.2	0.7	2256	14	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 23	Truck Flatbed 4 T Highway	Crane, Grader, and Excavator to Stockton	1	3.2	1.1	3	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 24	Truck' End Dump' 10-13cy' Hwy	Materials from Stockton	180	1600.0	1.1	1500	8.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 24	Truck' End Dump' 10-13cy' Hwy	Base Rock from Vernalis	180	583.8	0.7	834	4.6	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 24	Truck, Flatbed, 10T, Hwy	Materials from Stockton	180	60.8	1.1	57	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 25	Pickup 1/2T 2 WD	Materials from Stockton	393	21303.1	1.1	19972	50.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 25	Pickup, 3/4T, 4wd	Materials from Stockton	393	279.7	1.1	262	0.7	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 26	Pickup 1/2T 2 WD	Materials from Stockton	1355	28604.8	1.1	26817	19.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 26	Truck Flatbed 4 T Highway	Materials from Stockton	1355	20738.5	1.1	19442	14.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 26	Truck, Flatbed, 10T, Hwy	Materials from Stockton	1355	154.7	1.1	145	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 27	Pickup 1/2T 2 WD	Materials from Stockton	1750	13463.7	1.1	12622	7.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 27	Truck' End Dump' 16-20cy' Hwy	Base Rock and Gravel from Vernalis	1750	650.3	0.7	929	1	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 27	Truck, Flatbed, 10T, Hwy	Materials from Stockton	1750	227.2	1.1	213	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 28	Truck, Flatbed, 10T, Hwy	Materials from Stockton	2154	8301.9	1.1	7783	3.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 28	Truck, Flatbed, 4T, Hwy	Materials from Stockton	2154	13070.0	1.1	12253	5.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 29	Pickup 1/2T 2 WD	Materials from Stockton	535	3458.6	1.1	3242	6.1	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 29	Pickup, 3/4T, 4wd	Materials from Stockton	535	2093.1	1.1	1962	3.7	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 29	Truck, 400hp & End Dump TC, 28cy, 36T	Materials from Stockton	535	3407.4	1.1	3194	6.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 29	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	535	8787.6	1.1	8238	15	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 29	Truck, Flatbed, 10T, Hwy	Materials from Stockton	535	4154.4	1.1	3895	7.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 29	Truck, Flatbed, 4T, Hwy	Materials from Stockton	535	167.0	1.1	157	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 29	Truck, Flatbed, 10T, Hwy	Materials from Stockton	535	2302.9	1.1	2159	4.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel

SF - Eastern -29	Truck' End Dump' 10-13cy Hwy	Base Rock, Cement, Aggregate, and Sand from Stockton	535	14932.5	1.1	13493	25.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -30	Mechanics Truck	Materials from Stockton	186	1306.7	1.1	1225	7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -30	Pickup 1/2T 2 WD	Materials from Stockton	186	1185.9	1.1	1113	6.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern -30	Pickup 1/4T, 4wd	Materials from Stockton	186	171.9	1.1	161	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern -30	Truck, Flatbed, 10T, Hwy	Materials from Stockton	186	246.7	1.1	231	1.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -30	Truck Flatbed 4 T Highway	Materials from Stockton	186	1306.7	1.1	1225	6.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -30	Truck' End Dump' 10-13cy Hwy	Gravel and Base Rock from Vernalis	186	996.3	1.1	934	5.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -30	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Livermore	186	29.5	0.6	52	0.3	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern -30	Truck, Flatbed, 10T, Hwy	Materials from Stockton	186	236.3	0.6	417	2.2	Southern Complex on Byron Tract to/from Stockton	17	34	Diesel
SF - Eastern -31	Truck, Tractor, 75000k, 6 x 4	Materials from Stockton	251	401.9	1.1	377	1.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -31	Pickup 1/2T 2 WD	Materials from Stockton	251	799.4	1.1	749	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern -31	Pickup 3/4T, 4wd	Materials from Stockton	251	33.3	1.1	31	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern -31	Truck Flatbed 4 T Highway	Materials from Stockton	251	7904.1	1.1	7410	29.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -31	Truck, Flatbed, 10T, Hwy	Materials from Stockton	251	541.9	1.1	508	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -31	Truck, Flatbed, 10T, Hwy	Materials from Stockton	251	261.3	1.1	245	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -31	Truck' End Dump' 10-13cy Hwy	Gravel and Base Rock from Vernalis	251	89.6	1.1	84	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -31	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	251	129.8	0.6	229	0.9	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern -31	Truck Flatbed 4 T Highway	Loader from and to Stockton	2	2.1	1.1	2	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -32	Truck Flatbed 4 T Highway	Materials from Stockton	138	734.0	1.1	688	5.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -32	Truck, Tractor, 75000k, 6 x 4	Materials from Stockton	138	222.2	1.1	208	1.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -32	Truck Flatbed 4 T Highway	Materials from Stockton	138	227.2	1.1	213	1.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -32	Truck Flatbed 4 T Highway	Crane and Forklift from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -32	Truck Flatbed 4 T Highway	Crane to Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -33	Mechanics Truck	Materials from Stockton	255	5680.0	1.1	5325	21	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -33	Pickup 1/2T 2 WD	Materials from Stockton	255	5680.0	1.1	5325	20.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern -33	Truck Flatbed 4 T Highway	Materials from Stockton	255	5680.0	1.1	5325	20.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -34	Truck, Flatbed, 10T, Hwy	Materials from Stockton	747	16.0	1.1	15	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -34	Truck' End Dump' 16-20cy Hwy	Materials from Stockton	747	3090.0	1.1	2897	3.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -34	Truck' End Dump' 16-20cy Hwy	Materials from Stockton	747	590.9	1.1	554	0.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -34	Truck' End Dump' 10-13cy Hwy	Cement, Aggregate, and Sand from Stockton	747	6577.9	1.1	6167	8.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -34	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Livermore	747	250.5	0.6	442	0.6	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern -34	Truck' End Dump' 16-20cy Hwy	Gravel and Flyash from Vernalis	747	1086.4	0.7	1552	2.1	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern -34	Truck Flatbed 4 T Highway	Roller to Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -35	Truck & Bottom Dump, 21cy, 10T	Dumper	90	2179.5	1.1	2043	22.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -35	Truck' End Dump' 16-20cy Hwy	Materials from Stockton	90	844.8	1.1	792	8.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -35	Truck' End Dump' 10-13cy Hwy	Cement, Aggregate, and Sand from Stockton	90	1852.1	1.1	1736	19.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -35	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Livermore	90	95.8	0.6	169	1.9	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern -35	Truck' End Dump' 16-20cy Hwy	Flyash from Vernalis	90	40.5	0.7	58	0.6	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern -35	Truck Flatbed 4 T Highway	Crane to Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -36	Tunnel Utility Truck	Highway Truck	313	5103.9	1.1	4785	15.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -36	Truck, Flatbed, 10T, Hwy	Materials from Stockton	313	2590.0	1.1	2428	7.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -36	Truck Flatbed 4 T Highway	Materials from Stockton	313	15207.8	1.1	14257	46.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -36	Truck' End Dump' 16-20cy Hwy	Materials from Stockton	313	154.7	1.1	145	0.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -37	Tunnel Utility Truck	Highway Truck	38	174	1.1	163	4.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -37	Truck' End Dump' 16-20cy Hwy	Materials from Stockton	38	385.1	1.1	361	9.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -37	Truck' End Dump' 16-20cy Hwy	Base Rock, Gravel, and Flyash from Vernalis	38	1212.4	0.7	1732	45.6	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern -37	Truck Flatbed 4 T Highway	Dozer and Loader to Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -38	Mechanics Truck	Materials from Stockton	391	2133.0	1.1	2000	5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -38	Truck' End Dump' 16-20cy Hwy	Materials from Stockton	391	3090.0	1.1	2897	7.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -38	Pickup 1/2T 2 WD	Materials from Stockton	391	2133.0	1.1	2000	5.1	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern -38	Truck, Flatbed, 4T, Hwy	Materials from Stockton	391	2133.0	1.1	2000	5.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -39	Truck' End Dump' 16-20cy Hwy	Materials from Stockton	460	2185.5	1.1	2049	4.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -39	Truck' End Dump' 16-20cy Hwy	Materials from Stockton	460	444.8	1.1	417	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -39	Truck' End Dump' 10-13cy Hwy	Cement, Aggregate, and Sand from Stockton	460	485.3	1.1	455	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -39	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Livermore	460	29.5	0.6	52	0.1	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern -39	Truck' End Dump' 16-20cy Hwy	Base Rock, Gravel, and Flyash from Vernalis	460	664.4	0.7	949	2.1	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern -39	Truck Flatbed 4 T Highway	Excavator and Loader from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -40	Tunnel Utility Truck	Highway Truck	345	10210.6	1.1	9572	27.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -40	Truck, Flatbed, 10T, Hwy	Materials from Stockton	345	2504.0	1.1	2348	6.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -41	Tunnel Utility Truck	Highway Truck	37	174	1.1	163	4.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -41	Truck' End Dump' 10-13cy Hwy	Cement, Aggregate, and Sand from Stockton	37	656.9	1.1	616	16.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -41	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	37	21.5	0.6	38	1.0	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern -41	Truck' End Dump' 16-20cy Hwy	Gravel and Flyash from Vernalis	37	456.8	0.7	653	17.6	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern -41	Truck Flatbed 4 T Highway	Crane and Tractor to Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -42	Mechanics Truck	Materials from Stockton	2099	3547.0	1.1	3325	2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -42	Pickup 1/2T 2 WD	Materials from Stockton	2099	3547.0	1.1	3325	1.6	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern -42	Truck, Flatbed, 10T, Hwy	Materials from Stockton	2099	400.0	1.1	375	0.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -42	Truck Flatbed 4 T Highway	Materials from Stockton	2099	3547.0	1.1	3325	1.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -42	Truck & Bottom Dump' 21cy/ 10T	Materials from Stockton	2099	3852.4	1.1	3612	2	Bethany PR to/from Stockton	32	64	Diesel Tier 4
SF - Eastern -42	Truck' End Dump' 16-20cy Hwy	Materials from Stockton	2099	227.2	1.1	213	0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -42	Truck Flatbed 4 T Highway	Loader and three Cranes to Stockton	1	4.3	1.1	4	4.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -43	Truck, Flatbed, 10T, Hwy	Materials from Stockton	238	15.3	1.1	14	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern -43	Truck' End Dump' 16-20cy Hwy	Gravel, Ballast, and Sub-ballast from Vernalis	238	11739.0	0.7	16770	70.5	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern -43	Truck Flatbed 4 T Highway	Two Excavators, two Loaders, Roller, Dozer, and Scraper to Stockton	1	7.5	1.1	7	7.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel

SF - Eastern - 43	Truck Flatbed 4 T Highway	Excavator from and to Stockton	2	2.1	1.1	2	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 44	Truck, Flatbed, 10T, Hwy	Materials from Stockton	85	1275.1	1.1	1195	14.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 44	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	85	1473.1	1.1	1381	16.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 44	Truck' End Dump' 10-13cy' Hwy	Cement, Aggregate, and Sand from Stockton	85	7426.7	1.1	6963	81.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 44	Truck' End Dump' 16-20cy' Hwy	Flyash from Vernalis	85	162.3	0.7	232	2.7	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 44	Truck Flatbed 4 T Highway	Crane to Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 45	Truck, Flatbed, 10T, Hwy	Materials from Stockton	165	4367.6	1.1	4095	24.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 45	Truck Flatbed 4 T Highway	Two Loaders, Grader, Dozer, Skid Loader, and Roller to Stockton	1	6.4	1.1	6	6.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 46	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	442	3513.0	1.1	3293	7.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 46	Truck, Flatbed, 10T, Hwy	Materials from Stockton	442	102.0	1.1	96	0.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 46	Truck Flatbed 4 T Highway	Two Cranes and a Forklift to Stockton	1	3.2	1.1	3	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 47	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	50	213.3	1.1	200	4.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 47	Truck Flatbed 4 T Highway	Excavator, Tractor, Grader, Scraper, Loader, and two Dozers to Stockton	1	7.5	1.1	7	7.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 48	Truck, Flatbed, 10T, Hwy	Materials from Stockton	1792	216085.6	1.1	202580	113.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 48	Truck Flatbed 4 T Highway	Lift, two Rollers, Paver, Excavator, and Loader to Stockton	1	6.4	1.1	6	6.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 49	Tunnel Utility Truck	Highway Truck	71	417.3	1.1	391	5.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 49	Truck' End Dump' 10-13cy' Hwy	Cement, Aggregate, and Sand from Stockton	71	656.9	1.1	616	8.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 49	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	71	21.5	0.6	38	0.5	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern - 49	Truck' End Dump' 16-20cy' Hwy	Gravel and Flyash from Vernalis	71	456.8	0.7	653	9.2	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 49	Truck Flatbed 4 T Highway	Crane and Tractor to Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 50	Pickup 1/2T 2 WD	Materials from Stockton	40	384.0	1.1	360	9.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 51	Pickup 1/2T 2 WD	Materials from Stockton	85	400.0	1.1	375	4.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 52	Pickup 1/2T 2 WD	Materials from Stockton	2205	17104.9	1.1	16036	7.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 55	Pickup 1/2T 2 WD	Materials from Stockton	257	200.0	1.1	188	0.7	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 55	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	257	4000.0	1.1	3750	15	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 55	Truck, Flatbed, 10T, Hwy	Materials from Stockton	257	113.3	0.6	200	0.8	Southern Complex on Byron Tract to/from Stockton	17	34	Diesel

Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) — on the Construction Site									Miles On-Site	
SF - Eastern - 3	CAT 770, Articulated End dump	Dumper	253	233.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1166	Diesel or Hybrid
SF - Eastern - 3	Articulated Rear Dump 22 CY/CAT 730	Dumper	253	2181.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	10907	Diesel or Hybrid
SF - Eastern - 3	Truck & Bottom Dump, 21cy, 30T	Dumper	253	2408.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	12045	Diesel
SF - Eastern - 4	CAT 770, Articulated End dump	Dumper	318	101.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	509	Diesel or Hybrid
SF - Eastern - 4	Articulated Rear Dump 22 CY/CAT 735	Dumper	318	1069.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	5347	Diesel or Hybrid
SF - Eastern - 5	Cat 770, 511HP	Dumper	22	100.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	500	Diesel or Hybrid
SF - Eastern - 5	Articulated Rear Dump 22 CY/CAT 735	Dumper	22	199.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1000	Diesel or Hybrid
SF - Eastern - 5	Trailer, Flatbed, 40T	Off-Highway Truck	22		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 5	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	22		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 9	Articulated Rear Dump 22 CY/CAT 730	Dumper	201	160.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	800	Diesel or Hybrid
SF - Eastern - 9	Trailer, Lowboy, 50T	Off-Highway Truck	201	38.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	192	Diesel
SF - Eastern - 9	CAT735, 35T, Articulated End Dump	Dumper	201	72	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	360	Diesel or Hybrid
SF - Eastern - 9	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	201		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 10	CAT735, 35T, Articulated End Dump	Dumper	72	71	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	356	Diesel or Hybrid
SF - Eastern - 10	Cat 770, 511HP	Dumper	72	71.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
SF - Eastern - 10	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	72		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 11	Articulated Rear Dump 22 CY/CAT 730	Dumper	277	32881.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	164408	Diesel or Hybrid
SF - Eastern - 11	CAT 770 Dump	Dumper	277	200	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1002	Diesel or Hybrid
SF - Eastern - 11	Articulated Rear Dump 22 CY/CAT 735	Dumper	277	400.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2005	Diesel or Hybrid
SF - Eastern - 11	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	277		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 12	Trailer, Lowboy, 50T	Off-Highway Truck	712	8846.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	44234	Diesel
SF - Eastern - 12	CAT 740 40T, Articulated End dump	Dumper	712	2517.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	12686	Diesel or Hybrid
SF - Eastern - 12	Tremie Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	712		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 13	Trailer, Lowboy, 50T	Off-Highway Truck	794	1632.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	8161	Diesel
SF - Eastern - 13	CAT 770 Dump	Dumper	794	33	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	165	Diesel or Hybrid
SF - Eastern - 13	Articulated Rear Dump 22 CY/CAT 730	Dumper	794	7483.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	37419	Diesel or Hybrid
SF - Eastern - 13	CAT 740 40T, Articulated End dump	Dumper	794	235.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1178	Diesel or Hybrid
SF - Eastern - 13	Articulated Rear Dump 22 CY/CAT 735	Dumper	794	986.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	4930	Diesel or Hybrid
SF - Eastern - 13	CAT773, 51.7T, End Dump	Dumper	794	1523.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	7616	Diesel or Hybrid
SF - Eastern - 13	Tremie Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	794		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 14	CAT 740 40T, Articulated End dump	Dumper	649	2386.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	11934	Diesel or Hybrid
SF - Eastern - 14	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	649		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 15A	Articulated Rear Dump 22 CY/CAT 730	Dumper	265	2995.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	14978	Diesel or Hybrid
SF - Eastern - 15A	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	265		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel

SF - Eastern - 158	Articulated Rear Dump 22 CV/CAT 730	Dumper	335	591.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2959	Diesel or Hybrid
SF - Eastern - 158	Articulated Rear Dump 22 CV/CAT 735	Dumper	335	7114.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	35573	Diesel or Hybrid
SF - Eastern - 16	Articulated Rear Dump 22 CV/CAT 730	Dumper	147	144.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	723	Diesel or Hybrid
SF - Eastern - 16	Tremie Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	147		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 17	Articulated Rear Dump 22 CV/CAT 730	Dumper	33	21.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	109	Diesel or Hybrid
SF - Eastern - 18	Articulated Rear Dump 22 CV/CAT 730	Dumper	29	48.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	242	Diesel or Hybrid
SF - Eastern - 18	Concrete Pump Truck	Off-Highway Truck	29		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 19	Articulated Rear Dump 22 CV/CAT 730	Dumper	325	269.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1347	Diesel or Hybrid
SF - Eastern - 19	CAT 740 40T, Articulated End dump	Dumper	325	646.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3231	Diesel or Hybrid
SF - Eastern - 19	CAT 770 Dump	Dumper	325	1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3	Diesel or Hybrid
SF - Eastern - 19	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	325		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 19	Articulated Rear Dump 22 CV/CAT 730	Dumper to move soil on-site	325		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
SF - Eastern - 20	Tremie Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	680		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 22	Trailer, Lowboy, 50T	Off-Highway Truck	269	240.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1200	Diesel
SF - Eastern - 22	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	269		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 23	Articulated Rear Dump 22 CV/CAT 730	Dumper	160	5595.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	27977	Diesel or Hybrid
SF - Eastern - 23	Articulated Rear Dump 22 CV/CAT 735	Dumper	160	484.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2422	Diesel or Hybrid
SF - Eastern - 23	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	160		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 23	Articulated Rear Dump 22 CV/CAT 730	Dumper to move soil on-site	649		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
SF - Eastern - 24	Tremie Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	180		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 25	Articulated Rear Dump 22 CV/CAT 730	Dumper	393	559.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2797	Diesel or Hybrid
SF - Eastern - 25	Articulated Rear Dump 22 CV/CAT 735	Dumper	393	24738.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	123690	Diesel or Hybrid
SF - Eastern - 26	CAT 770 Dump	Dumper	1355	11203	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	56014	Diesel or Hybrid
SF - Eastern - 26	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	1355		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 27	CAT 749, 41.6T End Dump	Dumper	1750	34297.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
SF - Eastern - 28	Cat 770, 511HP	Dumper	2154		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
SF - Eastern - 28	Cat 745 40T, Articulated End Dump	Dumper	2154		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
SF - Eastern - 29	CAT735, 35T, Articulated End Dump	Dumper	535	8194	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	40972	Diesel or Hybrid
SF - Eastern - 29	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	535		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 30	Cat 770, 511HP	Dumper	186	134.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	674	Diesel or Hybrid
SF - Eastern - 30	Articulated Rear Dump 22 CV/CAT 730	Dumper	186	3081.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	15406	Diesel or Hybrid
SF - Eastern - 30	CAT735, 35T, Articulated End Dump	Dumper	186	287	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1435	Diesel or Hybrid
SF - Eastern - 30	Trailer, Lowboy, 50T	Off-Highway Truck	186	550.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2750	Diesel
SF - Eastern - 30	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	186		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 31	Trailer, Lowboy, 50T	Off-Highway Truck	251	401.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2010	Diesel
SF - Eastern - 31	Articulated Rear Dump 22 CV/CAT 730	Dumper	251	13991.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	69956	Diesel or Hybrid
SF - Eastern - 31	Cat 770, 511HP	Dumper	251	1027.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	5135	Diesel or Hybrid
SF - Eastern - 31	CAT 740 40T, Articulated End dump	Dumper	251	610.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3050	Diesel or Hybrid
SF - Eastern - 31	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	251		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 32	Trailer, Lowboy, 50T	Off-Highway Truck	138	444.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2220	Diesel
SF - Eastern - 32	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	138		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 34	CAT 740 40T, Articulated End dump	Dumper	747	639.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3195	Diesel or Hybrid
SF - Eastern - 34	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	747		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 35	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	90		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 37	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	38		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 38	Articulated Rear Dump 22 CV/CAT 730	Dumper	391	639.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3195	Diesel or Hybrid
SF - Eastern - 38	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	391	1278.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	6390	Diesel
SF - Eastern - 39	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	460		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 41	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	37		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 43	Articulated Rear Dump 22 CV/CAT 730	Dumper	238	1296.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	6482	Diesel or Hybrid
SF - Eastern - 43	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	238	1628.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	8140	Diesel
SF - Eastern - 45	Articulated Rear Dump 22 CV/CAT 730	Dumper	165	1334.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	6673	Diesel or Hybrid
SF - Eastern - 46	Articulated Rear Dump 22 CV/CAT 730	Dumper	442	758.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3794	Diesel or Hybrid
SF - Eastern - 46	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	442	1364.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	6830	Diesel
SF - Eastern - 55	CAT 740 40T, Articulated End dump	Dumper	257	200.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1000	Diesel or Hybrid

**Employees Required to Southern Complex on Byron Tract - Eastern
Option 6**

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
SF - Eastern - 1	Carpenter Apprentice	8.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 1	Carpenter Foreman	8.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 1	Carpenter Journeyman	17.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 1	Electrical Foreman	4.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 1	Electrical Journeyman	17.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 1	Iron Worker Journeyman	17.8				32
SF - Eastern - 1	Rebar/Struct		10		Stockton to/from Southern Complex on Byron Tract	
SF - Eastern - 1	Laborer G2 General	3217.8	10		Stockton to/from Southern Complex on Byron Tract	32
						32
SF - Eastern - 1	Operator G3a Cranes 45 t and under	328.8	10		Stockton to/from Southern Complex on Byron Tract	
SF - Eastern - 1	Teamster G1 Hwy ED<6cy, Flatbed	799.7	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 1	Teamster G3 Boom Truck	4.4	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-1						
SF - Eastern - 2	Carpenter Apprentice	44.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Carpenter Foreman	44.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Carpenter Journeyman	88.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Electrical Foreman	22.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Electrician Journeyman	88.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Iron Worker Journeyman Rebar/Stru	88.89	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Laborer G2 General	16088.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Operator G3a Cranes 45 t and under	1644.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Teamster G1 Hwy ED<6cy, Flatbed	4000.28	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Teamster G3 Boom Truck	22.22	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-2						
SF - Eastern - 3	Laborer G1 Pipe layers	757.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Laborer G1 Power Tamper	378.7	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Laborer G2 General	4903.5	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Laborer G3 Flagman	1240.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Operator G3 Loader >4cy	328.5	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Operator G2a Cranes 45 to 100 t	2423.76	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	OPERATING ENGINEER FOREMAN	2480	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Operator G2 Excavator 3.5 to 7.0	363.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Operator G2 Finish Blade	853.3	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Operator G3 BH-Loader>3/4cy	2613.1	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Operator G4 Dozer & Push Cat	1799.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Operator G4 Grade Check	1211.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Operator G5 Compactor w-blade	1086.3	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Teamster G2 Hwy ED 6-8cy, Water	1604.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Teamster G3 ED 8-24cy, Water>7	4895.3	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-3						
			150			
SF - Eastern - 4	Laborer Foreman	30.44	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Laborer G1 Pipe layers	401.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Laborer G3 Bridge labor	5696.96	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Laborer G1 Power Tamper	140	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Laborer G2 General	1412.5	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Laborer G3 Flagman	1090.5	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	OPERATING ENGINEER FOREMAN	2653.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G2 Finish Blade	646.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G1a Cranes>100 t	1424.24	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G2 Excavator 3.5 to 7.0 cy	267.34	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G2a Cranes 45 to 100 t	1424.24	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G3 BH-Loader>3/4cy	407.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G4 Dozer & Push Cat	470.7	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G4 Grade Check	857.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G4 Loader <4.1cy	70	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G4a Boom truck<15 ton	35.14	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G5 Asphalt Roller	623.78	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G5 Compactor w-blade	203.35	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G5 Paver	311.89	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G7 Roller, Compactor	545.26	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G8 Generator	109.05	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Pile Driver Wharf and Dock	5696.96	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Teamster G1 Hwy ED<6cy, Flatbed	1469.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Teamster G2 Hwy ED 6-8cy, Water<7	1123.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Teamster G3 Boom Truck	35.14	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Teamster G3 ED 8-24cy, Water>7mg;	1069.4	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-4						
SF - Eastern - 5	Laborer G2 General	307.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Laborer G3 Flagman	307.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	OPERATING ENGINEER FOREMAN	253.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Operator G2 Finish Blade	199.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Operator G3 Loader >4cy	100	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Operator G4 Dozer & Push Cat	307.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Operator G4 Grade Check	100	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Operator G4 Loader <4.1cy	253.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Operator G4 Trim Machine	76.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Operator G5 Compactor w-blade	100	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Teamster G2 Hwy ED 6-8cy, Water<7	153.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Teamster G3 ED 8-24cy, Water>7mg;	507.1	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-5						
SF - Eastern - 6	Carpenter Apprentice	759.3	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Carpenter Foreman	759.3	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Carpenter Journeyman	1518.6	10		Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 6	Electrical Foreman	189.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Electrician Journeyman	759.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Iron Worker Journeyman Rebar/Stru	1518.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Laborer G2 General	47080.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	OPERATING ENGINEER FOREMAN	15187.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Operator G2 Plant Operator	30374.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Operator G3 BH-Loader>3/4cy	15187.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Operator G3a Cranes 45 t and under	15187.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Operator G4 Grade Check	15187.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Operator G4 Hvy Duty Mechanic	15187.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Operator G4a Boom truck<15 ton	759.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Teamster G1 Hvy ED<6cy, Flatbed	15187.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Teamster G2 Hvy ED 6-8cy, Water<7	15187.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Teamster G3 Boom Truck	379.7	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-6					
SF - Eastern - 7	Carpenter Apprentice	2815.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Carpenter Foreman	2815.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Carpenter Journeyman	5496.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Electrical Foreman	1078.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Electrician Journeyman	3525.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Iron Worker Journeyman Rebar/Stru	5631.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Laborer Foreman	8256	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Laborer G1 Pipe layers	1536	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Laborer G2 General	38732.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	OPERATING ENGINEER FOREMAN	76.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G2 Finish Blade	76.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G2a Cranes 45 to 100 t	135.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G3a Cranes 45 t and under	1442.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G4 BH-Loader <.76cy	1536	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G4 Dozer & Push Cat	76.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G4 Grade Check	76.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G4 Loader <4.1cy	7488	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G4 Scraper	153.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G4a Boom truck<15 ton	1441	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G6 Tractor	3744	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G7 Roller, Compactor	76.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Teamster G2 Hvy ED 6-8cy, Water<7	844.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Teamster G3 Boom Truck	1407.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Teamster G1 Hvy ED<6cy, Flatbed	14976	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-7					
SF - Eastern - 8	Carpenter Journeyman	12375	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Electrician Journeyman	12375	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Laborer Foreman	6877.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Laborer G4 Clean-up	13755.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Operator G1a Cranes>100 t	39936	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Operator G2 Finish Blade	1375.5264	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Operator G3 BH-Loader>3/4cy	6877.6128	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Operator G4 Hvy Duty Mechanic	9984	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Operator G5 Compactor w-blade	1375.5264	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Operator G5 Concrete Pump	4992	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Operator G7 Oiler	29952	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Teamster G1 Hvy ED<6cy, Flatbed	16861.6	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-8					
SF - Eastern - 9	Carpenter Apprentice	960	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Carpenter Foreman	1226.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Carpenter Journeyman	3796	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Cement Mason Foreman	115.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Cement Mason Journeyman	603.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Electrical Foreman	576	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Electrician Journeyman	4864	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Iron Worker Foreman	345.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Iron Worker Journeyman Rebar/Stru	8179.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Laborer Foreman	665.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Laborer G1 Pipe layers	1024	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Laborer G1 Vibrator, Green Cutter	192	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Laborer G2 Concrete Laborer	288	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Laborer G2 General	4630.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Laborer G2 High Pressure Nozzlemar	57.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	OPERATING ENGINEER FOREMAN	104	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G1a Cranes>100 t	38.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G2 Excavator 3.5 to 7.0 cy	24	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G2 Finish Blade	6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G2a Cranes 45 to 100 t	182.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G3 BH-Loader>3/4cy	512	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G3 Loader >4cy	630.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G3a Cranes 45 t and under	960	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G4 Dozer & Push Cat	104	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G4 Grade Check	104	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G4 Hvy Duty Mechanic	72	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G4a Boom truck<15 ton	960	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G5 Compactor w-blade	80	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G7 Oiler	38.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Pile Driver Foreman	38.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Pile Driver Journeyman	192	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Teamster G1 Hvy ED<6cy, Flatbed	256	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Teamster G2 Hvy ED 6-8cy, Water<7	302	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Teamster G3 Boom Truck	960	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Teamster G3 ED 8-24cy, Water>7mg;	1680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Teamster G4 ED 25-65 Cy	232	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Teamster G4 Tractor, Lowbed/Trailer	38.4	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-9			370		
SF - Eastern - 10	Carpenter Foreman	308	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Compactor Journeyman	2020.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Cement Mason Foreman	348.8	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 10	Cement Mason Journeyman	2434.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Iron Worker Foreman	298.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Iron Worker Journeyman Rebar/Stru	2086.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Laborer Foreman	110.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Laborer G1 Vibrator, Green Cutter	220.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Laborer G2 Concrete Laborer	331.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Laborer G2 General	2104	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	OPERATING ENGINEER FOREMAN	71.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Operator G2 Finish Blade	71.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Operator G2a Cranes 45 to 100 t	312	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Operator G3 Loader >4cy	71.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Operator G4 Hvy Duty Mechanic	78	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Operator G5 Compactor w-blade	71.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Teamster G1 Hwy ED<6cy, Flatbed	78	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Teamster G3 ED 8-24cy, Water>7mg;	61.4	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-10					
SF - Eastern - 11	Carpenter Apprentice	890	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Carpenter Foreman	890	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Carpenter Journeyman	1780	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Electrical Foreman	225.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Electrician Journeyman	890	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Iron Worker Foreman	8222.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Iron Worker Journeyman Rebar/Stru	67561.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Laborer Foreman	8221.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Laborer G2 Concrete Laborer	49328.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Laborer G2 General	71582.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	OPERATING ENGINEER FOREMAN	15454.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G1a Cranes>100 t	23476.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G2 Finish Blade	400.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G2 Micro Tunnel	16441.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G2a Cranes 45 to 100 t	16441.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G3 BH-Loader>3/4cy	8220.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G3 Loader >4cy	8420.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G4 Dozer & Push Cat	8220.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G4 Grade Check	8420.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G4 Hvy Duty Mechanic	8220.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G4 Loader <4.1cy	200.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G4a Boom truck<15 ton	890	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G5 Compactor w-blade	200.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G5 Drilling & Boring Mach	192	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G7 Oiler	40110.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Teamster G1 Hwy ED<6cy, Flatbed	8220.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Teamster G3 Boom Truck	445	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Teamster G3 ED 8-24cy, Water>7mg;	33282.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Teamster G4 Water Tanker, Off Hwy	200.4	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-11					
SF - Eastern - 12	Carpenter Foreman	3423	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Carpenter Journeyman	22719	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Cement Mason Foreman	913.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Cement Mason Journeyman	3567.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Iron Worker Foreman	16534	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Iron Worker Journeyman Rebar/Stru	112596.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Laborer Foreman	8221.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Laborer G1 Vibrator, Green Cutter	2126.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Laborer G2 Concrete Laborer	12803.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Laborer G2 General	46837.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Laborer G2 High Pressure Nozzlemar	4488	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	OPERATING ENGINEER FOREMAN	4004	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G1a Cranes>100 t	16252.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G2 Excavator 3.5 to 7.0 cy	3249.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G2 Finish Blade	130.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G2 Plant Operator	153.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G2a Cranes 45 to 100 t	7235.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G3 Loader >4cy	260.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G3a Cranes 45 t and under	361.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G4 Dozer & Push Cat	1385.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G4 Hvy Duty Mechanic	798.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G5 Compactor w-blade	260.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G6 Screedman	206.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G6 Tractor	260.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G7 Oiler	1652.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G8a Skidsteer <Bobcat 743	266.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Teamster G2 Hwy ED 6-8cy, Water<7	331.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Teamster G3 ED 8-24cy, Water>7mg;	13692	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Teamster G4 ED 25-65 Cy	9284.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Teamster G4 Tractor, Lowbed/Trailer	8846.8	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-12					
SF - Eastern - 13	Carpenter Apprentice	213.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Carpenter Foreman	6144.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Carpenter Journeyman	29595.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Cement Mason Foreman	700.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Cement Mason Journeyman	2760.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Electrical Foreman	1434.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Electrical Lineman	1382.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Electrician Journeyman	208.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Iron Worker Foreman	6985.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Iron Worker Journeyman Rebar/Stru	50614.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Iron Worker-Rigger	488.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Laborer Foreman	5178.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Laborer G1 Vibrator, Green Cutter	1942	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Laborer G2 Concrete Laborer	17061.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Laborer G2 General	46369.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Laborer G2 High Pressure Nozzlemar	761.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Laborer G3 Flagman	460.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Millwright	5529.6	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 13	OPERATING ENGINEER FOREMAN	4682.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G1a Cranes>100 t	11791.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G2 Excavator 3.5 to 7.0 cy	289	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G2 Finish Blade	152.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G2 Micro Tunnel	3743.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G2a Cranes 45 to 100 t	7995.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G3 BH-Loader>3/4cy	1870.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G3 Loader >4cy	1962.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G4 Dozer & Push Cat	2413.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G4 Grade Check	2018.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G4 Hvy Duty Mechanic	2262.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G4 Loader <4.1cy	32.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G4a Boom truck<15 ton	208.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G5 Compactor w-blade	91.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G6 Screedman	164.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G6 Tractor	58.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G7 Oiler	17405.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G8a Skidsteer <Bobcat 743	87	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Pipefitter Foreman	1382.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Pipefitter Journeyman	1382.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Teamster G1 Hwy ED<6cy, Flatbed	2807.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Teamster G2 Hwy ED 6-8cy, Water<7	159.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Teamster G3 Boom Truck	104.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Teamster G3 ED 8-24cy, Water>7mgi	10463.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Teamster G4 ED 25-65 Cy	2679	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Teamster G4 Tractor, Lowbed/Trailer	1632.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Teamster G4 Water Tanker, Off Hwy	32.9	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-13					
SF - Eastern - 14	Carpenter Apprentice	19.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Carpenter Foreman	9183.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Carpenter Journeyman	52660.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Cement Mason Foreman	2253	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Cement Mason Journeyman	11398.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Electrical Foreman	96	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Electrical Lineman	96	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Iron Worker Foreman	7436.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Iron Worker Journeyman Rebar/Stru	48201.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Iron Worker Rigger	191.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Laborer Foreman	3056.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Laborer G1 Vibrator, Green Cutter	1722.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Laborer G2 Concrete Laborer	6465.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Laborer G2 General	37852.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Laborer G2 High Pressure Nozzlemar	817	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Millwright	768	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	OPERATING ENGINEER FOREMAN	921.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G1a Cranes>100 t	7381.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G2 Excavator 3.5 to 7.0 cy	1354.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G2 Finish Blade	244.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G2a Cranes 45 to 100 t	3569.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G3 Loader >4cy	488.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G4 Dozer & Push Cat	488.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G4 Hvy Duty Mechanic	757.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G5 Compactor w-blade	488.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G6 Screedman	332.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G6 Tractor	488.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G7 Oiler	7764.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G8a Skidsteer <Bobcat 743	1378	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Pile Driver Foreman	156.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Pile Driver Journeyman	938.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Pipefitter Foreman	96	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Pipefitter Journeyman	96	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Teamster G1 Hwy ED<6cy, Flatbed	196.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Teamster G2 Hwy ED 6-8cy, Water<7	1500.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Teamster G3 ED 8-24cy, Water>7mgi	3651.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Teamster G4 ED 25-65 Cy	2386.8	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-14					
SF - Eastern - 15A	Operator G1a Cranes>100 t	2995.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15A	Operator G3 BH-Loader>3/4cy	2995.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15A	Operator G7 Oiler	2995.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15A	Pipefitter Apprentice	11980.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15A	Pipefitter Foreman	2995.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15A	Pipefitter Journeyman	17971.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15A	Teamster G4 Tractor, Lowbed/Trailer	1497.6	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-15					
SF - Eastern - 15B	Carpenter Apprentice	76.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Carpenter Foreman	2698	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Carpenter Journeyman	16039.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Cement Mason Foreman	561.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Cement Mason Journeyman	2574.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Electrical Foreman	19.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Electrician Journeyman	76.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Iron Worker Foreman	6292.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Iron Worker Journeyman Rebar/Stru	44531.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Laborer Foreman	2083.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Laborer G1 Vibrator, Green Cutter	1120	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Laborer G2 Concrete Laborer	4396.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Laborer G2 General	14507	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Laborer G2 High Pressure Nozzlemar	2201.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	OPERATING ENGINEER FOREMAN	2166.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G1a Cranes>100 t	2912.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G2 Excavator 3.5 to 7.0 cy	1194.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G2 Finish Blade	1059.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G2 Micro Tunnel	172.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G2 Plant Operator	591.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G2a Cranes 45 to 100 t	1626	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 15B	Operator G3 BH-Loader>3/4cy	591.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G3 Loader >4cy	972.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G3a Cranes 45 t and under	591.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G4 Dozer & Push Cat	2980.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G4 Grade Check	1575.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G4 Hvy Duty Mechanic	215.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G4a Boom truck<15 ton	38.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G5 Compactor w-blade	380.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G6 Screedman	80.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G7 Oiler	3677.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G8a Skidsteer <Bobcat 743	250.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Teamster G1 Hwy ED<6cy, Flatbed	591.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Teamster G2 Hwy ED 6-8cy, Water<7	1140.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Teamster G3 Boom Truck	38.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Teamster G3 ED 8-24cy, Water>7mg;	2198.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Teamster G4 ED 25-65 Cy	7706.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Teamster G4 Water Tanker, Off Hwy	380.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-15					

SF - Eastern - 16	Carpenter Apprentice	1100.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Carpenter Foreman	1207.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Carpenter Journeyman	3040.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Cement Mason Foreman	136	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Cement Mason Journeyman	772.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Electrical Foreman	1100.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Electrician Journeyman	772.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Iron Worker Foreman	247.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Iron Worker Journeyman Rebar/Stru	3935.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Laborer Foreman	106.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Laborer G1 Vibrator, Green Cutter	182.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Laborer G2 Concrete Laborer	546.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Laborer G2 General	3695.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Laborer G2 High Pressure Nozzle	15.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	OPERATING ENGINEER FOREMAN	72.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G1a Cranes>100 t	289.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G2a Cranes 45 to 100 t	289.0656	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G3 Loader >4cy	72.2688	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G3a Cranes 45 t and under	1100.8032	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G4 Dozer & Push Cat	72.2688	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G4 Grade Check	72.2688	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G4 Hvy Duty Mechanic	72.2688	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G4a Boom truck<15 ton	1100.8032	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G5 Compactor w-blade	72.2688	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G6 Screedman	91.0656	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G7 Oiler	289.0656	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Teamster G2 Hwy ED 6-8cy, Water<7	36.1344	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Teamster G3 Boom Truck	1100.8032	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Teamster G3 ED 8-24cy, Water>7mg;	273.1776	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Teamster G4 ED 25-65 Cy	144.5376	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-16					

SF - Eastern - 17	Carpenter Apprentice	1232	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Carpenter Foreman	1267.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Carpenter Journeyman	2714.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Cement Mason Foreman	30.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Cement Mason Journeyman	189	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Electrical Foreman	1232	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Electrician Journeyman	2464	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Iron Worker Foreman	85	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Iron Worker Journeyman Rebar/Stru	3058.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Laborer Foreman	34.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Laborer G1 Vibrator, Green Cutter	49.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Laborer G2 Concrete Laborer	73.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Laborer G2 General	2848.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Laborer G2 High Pressure Nozzle	9.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	OPERATING ENGINEER FOREMAN	10.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G1a Cranes>100 t	77.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G2a Cranes 45 to 100 t	77.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G3 Loader >4cy	10.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G3a Cranes 45 t and under	1232.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G4 Dozer & Push Cat	10.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G4 Grade Check	10.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G4 Hvy Duty Mechanic	19.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G4a Boom truck<15 ton	1232.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G5 Compactor w-blade	10.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G6 Screedman	24.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G7 Oiler	77.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Teamster G2 Hwy ED 6-8cy, Water<7	5.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Teamster G3 Boom Truck	1232.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Teamster G3 ED 8-24cy, Water>7mg;	36.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Teamster G4 ED 25-65 Cy	21.8	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-17					

SF - Eastern - 18	Carpenter Foreman	32.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Carpenter Journeyman	225.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Cement Mason Foreman	19.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Cement Mason Journeyman	113.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Electrical Foreman	0.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Electrician Journeyman	0.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Iron Worker Foreman	46.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Iron Worker Journeyman Rebar/Stru	322.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Laborer Foreman	18.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Laborer G1 Vibrator, Green Cutter	26.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Laborer G2 Concrete Laborer	40	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Laborer G2 General	236.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Laborer G2 High Pressure Nozzle	5.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Millwright	0.384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	OPERATING ENGINEER FOREMAN	24.1728	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 18	Operator G1a Cranes>100 t	42.3648	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G2a Cranes 45 to 100 t	42.3648	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G3 Loader >4cy	24.1728	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G3a Cranes 45 t and under	0.048	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G4 Dozer & Push Cat	24.1728	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G4 Grade Check	24.1728	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G4 Hvy Duty Mechanic	10.5888	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G4a Boom truck<15 ton	0.048	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G5 Compactor w-blade	24.1728	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G7 Oiler	42.3648	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Teamster G2 Hwy ED 6-8cy, Water<7	12.0864	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Teamster G3 Boom Truck	0.192	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Teamster G3 ED 8-24cy, Water>7mg;	20.016	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Teamster G4 ED 25-65 Cy	48.3552	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-18					
SF - Eastern - 19	Carpenter Apprentice	2198.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Carpenter Foreman	2438.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Carpenter Journeyman	6058.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Cement Mason Foreman	282.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Cement Mason Journeyman	1948.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Electrical Foreman	2343.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Electrician Lineman	145.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Electrician Journeyman	4396.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Iron Worker Foreman	665.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Iron Worker Journeyman Rebar/Stru	9053.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Laborer Foreman	2017.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Laborer G1 Pipe Layers	1499.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Laborer G1 Vibrator, Green Cutter	488.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Laborer G2 Concrete Laborer	2214.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Laborer G2 General	15146.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Laborer G2 High Pressure Nozzlelema	57.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Laborer G3 Flagman	57.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	OPERATING ENGINEER FOREMAN	230.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G1a Cranes>100 t	387.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G2 Excavator 3.5 to 7.0 cy	2.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G2 Finish Blade	60.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G3a Cranes 45 t and under	775.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G3 BH-Loader>3/4cy	1330.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G3 Loader >4cy	884.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G3a Cranes 45 t and under	2198.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G4 Dozer & Push Cat	139.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G4 Grade Check	173	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G4 Hvy Duty Mechanic	193.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G4 Loader <4.1cy	57.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G4a Boom truck<15 ton	2198.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G5 Asphalt Roller	71.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G5 Compactor w-blade	194.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G5 Curb & Gutter Conc Fini	249.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G5 Paver	35.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G6 Screedman	244.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G6 Tractor	0.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G7 Oiler	775.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G8 Pump	12	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G8a Skidsteer <Bobcat 743	1115.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Teamster G1 Hwy ED<6cy, Flatbed	1276.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Teamster G2 Hwy ED 6-8cy, Water<7	976.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Teamster G3 Boom Truck	2198.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Teamster G3 ED 8-24cy, Water>7mg;	906	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Teamster G4 ED 25-65 Cy	282	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Teamster G4 Tractor, Lowbed/Trailer	115.4	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-19					
SF - Eastern - 20	Carpenter Apprentice	4586.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Carpenter Foreman	12137	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Carpenter Journeyman	57197.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Cement Mason Foreman	1649.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Cement Mason Journeyman	6263.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Electrical Foreman	5306.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Electrician Journeyman	15200.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Iron Worker Foreman	6207.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Iron Worker Journeyman Rebar/Stru	46985.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Iron Worker Rigger	710.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Laborer Foreman	2106.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Laborer G1 Vibrator, Green Cutter	1321.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Laborer G2 Concrete Laborer	3963.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Laborer G2 General	39573.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Laborer G2 High Pressure Nozzlelema	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Operator G1a Cranes>100 t	6429	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Operator G3a Cranes 45 t and under	6991.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Operator G4 Hvy Duty Mechanic	530.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Operator G4a Boom truck<15 ton	4160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Operator G6 Screedman	294.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Operator G7 Oiler	7139.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Operator G8a Skidsteer <Bobcat 743	85.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Pipefitter Apprentice	474.24	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Pipefitter Foreman	717.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Pipefitter Journeyman	4302.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Teamster G1 Hwy ED<6cy, Flatbed	1863.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Teamster G2 Hwy ED 6-8cy, Water<7	85.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Teamster G3 Boom Truck	4160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Teamster G3 ED 8-24cy, Water>7mg;	1982	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Teamster G4 Tractor, Lowbed/Trailer	710.4	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-20					
SF - Eastern - 21	Carpenter Foreman	3200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 21	Carpenter Journeyman	6400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 21	Laborer G2 General	3200	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Eastern-21

SF - Eastern - 22	Carpenter Foreman	2016	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Electrical Lineman	3840	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Electrical Foreman	1056	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Electrician Journeyman	3840	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Iron Worker Rigger	384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Laborer G2 General	192	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Millwright	11904	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Operator G1a Cranes>100 t	384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Operator G3a Cranes 45 t and under	1352.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Operator G7 Oiler	384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Pipefitter Foreman	1432.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Pipefitter Journeyman	4298.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Teamster G1 Hwy ED<6cy, Flatbed	2112	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Teamster G4 Tractor, Lowbed/Trailer	240	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Eastern-22

SF - Eastern - 23	Carpenter Apprentice	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Carpenter Foreman	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Carpenter Journeyman	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Electrical Foreman	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Electrician Journeyman	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Iron Worker Rigger	241	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Iron Worker Journeyman Rebar/Stru	50	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Laborer Foreman	39.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Laborer G1 Pipe Layer	2577	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Laborer G2 General	5318.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Laborer G3 Flagman	337.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	OPERATING ENGINEER FOREMAN	14800.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G2 Excavator 3.5 to 7.0 cy	1220.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G2 Finish Blade	25208.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G2a Cranes 45 to 100 t	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G3 BH-Loader>3/4cy	7538.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G3 Loader >4cy	1499.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G3a Cranes 45 t and under	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G4 BH-Loader <.76cy	50	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G4 Dozer & Push Cat	2052.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G4 Grade Check	208.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G4 Scraper	80	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G4a Boom truck<15 ton	110.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G5 Compactor w-blade	920.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G8 Pump	33.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Teamster G1 Hwy ED<6cy, Flatbed	59.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Teamster G2 Hwy ED 6-8cy, Water<7	26438	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Teamster G3 Boom Truck	170.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Teamster G3 ED 8-24cy, Water>7mg;	19086.2	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Eastern-23

SF - Eastern - 24	Laborer G2 General	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 24	Laborer G3 Flagman	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 24	OPERATING ENGINEER FOREMAN	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 24	Operator G2 Finish Blade	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 24	Operator G4 Dozer & Push Cat	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 24	Operator G4 Loader <4.1cy	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 24	Teamster G2 Hwy ED 6-8cy, Water<7	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 24	Teamster G3 ED 8-24cy, Water>7mg;	1600	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Eastern-24

SF - Eastern - 25	Electrical Lineman	1560	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Laborer Foreman	3900	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Laborer G1 Pipe layers	7800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Laborer G3 Flagman	41522.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Laborer G4 Clean-up	559.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	OPERATING ENGINEER FOREMAN	21582.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Operator G2 Excavator 3.5 to 7.0 cy	22124.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Operator G2 Finish Blade	5190.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Operator G4 Dozer & Push Cat	22404.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Operator G4 Grade Check	10380.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Operator G8 Generator	7800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Teamster G2 Hwy ED 6-8cy, Water<7	5190.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Teamster G3 Boom Truck	3900	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Teamster G3 ED 8-24cy, Water>7mg;	83604.9	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Eastern-25

SF - Eastern - 26	Laborer G2 General	64408.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	OPERATING ENGINEER FOREMAN	49343.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G2 Excavator 3.5 to 7.0 cy	10332	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G2 Finish Blade	11202.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G2 Plant Operator	41476.92	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G3 BH-Loader>3/4cy	20738.46	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G3a Cranes 45 t and under	20738.46	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G4 Dozer & Push Cat	48073.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G4 Grade Check	31070.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G4 Scraper	73091.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G5 Compactor w-blade	18272.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G6 Tractor	2066.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G7 Roller, Compactor	28604.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G8 Pump	2066.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Teamster G1 Hwy ED<6cy, Flatbed	20738.46	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Teamster G2 Hwy ED 6-8cy, Water<7	20738.46	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Teamster G3 ED 8-24cy, Water>7mg;	11202.8	10	Stockton to/from Southern Complex on Byron Tract	32

TOTAL SF - Eastern-26

SF - Eastern - 27	Laborer G2 General	119.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 27	OPERATING ENGINEER FOREMAN	13583.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 27	Operator G5 Compactor w-blade	119.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 27	Operator G4 Dozer & Push Cat	32095.7	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 27	Operator G4 Scraper	19915.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 27	Operator G2 Excavator 3.5 to 7.0 cy	17148.76	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 27	Operator G2 Finish Blade	119.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 27	Teamster G3 ED 8-24cy, Water>7mg;	34297.53	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-27					
SF - Eastern - 28	Carpenter Journeyman	2075.47	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 28	Electrician Journeyman	4150.94	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 28	Laborer Foreman	21371.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 28	Laborer G2 General	26140	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 28	Laborer G4 Clean-up	16603.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 28	Operator G3 BH-Loader>3/4cy	8610.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 28	Operator G6 Tractor	6535	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 28	Teamster G1 Hwy ED<6cy, Flatbed	21371.9	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-28					
SF - Eastern - 29	Laborer Foreman	1895.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Laborer G2 General	15469	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Laborer G3 Fence Builder	7259.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	OPERATING ENGINEER FOREMAN	5638.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G8a Skidsteer <Bobcat 743	107.14	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G2 Excavator 3.5 to 7.0 cy	2921.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G2 Finish Blade	2339.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G3 BH-Loader>3/4cy	2688	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G3 Gradall	2867.76	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G3 Loader >4cy	5355.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G4 Dozer & Push Cat	895.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G4 Grade Check	1160.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G4 Scraper	555.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G4 Trim Machine	819.64	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G5 Compactor w-blade	2093.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G6 Tractor	334	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G7 Roller, Compactor	340.74	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G8 Pump	603.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Teamster G1 Hwy ED<6cy, Flatbed	4321.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Teamster G2 Hwy ED 6-8cy, Water<7	2564.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Teamster G3 ED 8-24cy, Water>7mg;	9142.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Teamster G4 ED 25-65 Cy	2458.9	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-29					
SF - Eastern - 30	Carpenter Foreman	1187.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Carpenter Journeyman	8309.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Cement Mason Foreman	12.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Cement Mason Journeyman	36.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Iron Worker Foreman	1026.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Iron Worker Journeyman Rebar/Stru	6160.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Laborer Foreman	310	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Laborer G1 Vibrator, Green Cutter	63.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Laborer G2 Concrete Laborer	1675.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Laborer G2 General	6227.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Laborer G2 High Pressure Nozzlemar	13.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Laborer G3 Dumpman	171.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	OPERATOR - MECHANIC	137.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	OPERATING ENGINEER FOREMAN	2115.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G1a Cranes>100 t	7725.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G2 Excavator 3.5 to 7.0 cy	597.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G2 Finish Blade	134.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G2 Plant Operator	2476	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G2a Cranes 45 to 100 t	792.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G3 BH-Loader>3/4cy	1310.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G3 Loader >4cy	447	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G3a Cranes 45 t and under	1169.23	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G4 Dozer & Push Cat	1419	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G4 Grade Check	1482.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G4 Hvy Duty Mechanic	6.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G4 Scraper	808.29	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G4 Trim Machine	3.93	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G5 Compactor w-blade	269.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G5 Drilling & Boring Mach	1000	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G7 Roller, Compactor	171.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G6 Tractor	171.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G7 Oiler	1863	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Pile Driver Foreman	550	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Pile Driver Wharf and Dock	2200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Teamster G1 Hwy ED<6cy, Flatbed	1553.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Teamster G2 Hwy ED 6-8cy, Water<7	1255.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Teamster G4 ED 25-65 Cy	11.8	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-30					
SF - Eastern - 31	Carpenter Apprentice	350	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Carpenter Foreman	7363.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Carpenter Journeyman	53266.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Cement Mason Foreman	1489.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Cement Mason Journeyman	5948.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Electrical Foreman	175	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Electrician Journeyman	600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Iron Worker Foreman	8058	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Iron Worker Journeyman Rebar/Stru	49182.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Laborer Foreman	1203.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Laborer G1 Vibrator, Green Cutter	661.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Laborer G2 Concrete Laborer	10972.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Laborer G2 General	32075.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Laborer G3 Dumpman	33.33	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	OPERATING ENGINEER FOREMAN	8576	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	OPERATOR - MECHANIC	3524.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G1 Excavator >7CY	205.39	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G1a Cranes>100 t	4408.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G2 Excavator 3.5 to 7.0 cy	610	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 31	Operator G2 Finish Blade	215.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G3 BH-Loader>3/4cy	7727.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G2 Plant Operator	11973.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G2a Cranes 45 to 100 t	4283.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G3 Loader >4cy	4368.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G3a Cranes 45 t and under	4596.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G5 Concrete Pump	1380.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G4 Dozer & Push Cat	3925.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G4 Grade Check	7760.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G4 Hwy Duty Mechanic	132.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G5 Drilling & Boring Mach	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G5 Compactor w-blade	35.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G7 Oiler	8028.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Pile Driver Foreman	244	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Pile Driver Wharf and Dock	976	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Teamster G5 ED >65cy	1026.96	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Teamster G1 Hwy ED<6cy, Flatbed	8413.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Teamster G2 Hwy ED 6-8cy, Water<7	4262.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Teamster G3 Boom Truck	175	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Teamster G3 ED 8-24cy, Water>7mg;	17144.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Teamster G4 ED 25-65 Cy	610	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Teamster G4 Tractor, Lowbed/Trailer	401.9	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-31					
SF - Eastern - 32	Carpenter Apprentice	60	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Carpenter Foreman	980	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Carpenter Journeyman	3180	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Electrical Foreman	900	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Electrical Lineman	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Electrician Journeyman	2500	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Iron Worker Foreman	98	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Iron Worker Journeyman Rebar/Stru	508.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Iron Worker Rigger	518	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Laborer G2 Concrete Laborer	5169.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Laborer G2 General	1830.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Operator G1a Cranes>100 t	237.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Operator G2a Cranes 45 to 100 t	1018	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Operator G3 BH-Loader>3/4cy	222.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Operator G3a Cranes 45 t and under	616.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Operator G4a Boom truck<15 ton	616.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Pipefitter Apprentice	888.89	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Pipefitter Foreman	222.22	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Pipefitter Journeyman	2133.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Teamster G1 Hwy ED<6cy, Flatbed	734	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Teamster G4 Tractor, Lowbed/Trailer	222.2	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-32					
SF - Eastern - 33	Bullgang Foreman	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Bullgang Laborer	1600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Carpenter	1892	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Carpenter Foreman	287	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Compactor Operator	648	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Dozer Operator	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Flagger	648	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Flat Truck Driver	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	General Foreman	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	General Laborer	1772	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Grade Setter / Checker	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Grader Operator	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Hyd Crane Operator	2201	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Iron Worker	5000	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Iron Worker Foreman	500	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Laborer G2 General	17040	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Loader Operator	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Mechanic / Welder	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Operating Engineer	5680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Operator G2 Plant Operator	11360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Operator G3 BH Loader	5680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Operator G3a Crane	5680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Operator G4 Grade Check	5680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Operator G4 Heavy Duty Mechanic	5680	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-33					
SF - Eastern - 34	Bottomlander	247	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Bullgang Foreman	16	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Bullgang Laborer	32	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Carpenter	1272.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Carpenter Foreman	318	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Concrete Superintendent	3360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Cost Engineer	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Crane Oiler	2118	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Dozer Operator	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Electrical Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	EMT	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Environmental Manager	5644.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Equipment Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Excavator Operator	405.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Field Engineer	5040	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Flat Truck Driver	16	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	General Foreman	1658	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	General Laborer	8479.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	General Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Geotechnical Manager	5644.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Grade Setter / Checker	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Grader Operator	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Hyd Crane Operator	1598.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Iron Worker	9158.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Iron Worker Foreman	1633.1	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 34	Lead Miner	697.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Loader Operator	1028.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Mechanic/Welder	1294	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Miner	6192.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Office Administrator	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Office Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Project Engineer	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Project Manager	5644.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	QC Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	QC Technician	3360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Runner	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Safety Engineer	13440	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Safety Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Schedule Engineer	3360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Shaft Crane Operator	2365	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Shift Engineers	13440	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Shifter	2312.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Survey Party Chief	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Survey Rod Man	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Toplander	1447	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Truck Driver	3964.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Tunnel Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Tunnel Walkers	13440	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-34					
SF - Eastern - 35	Bottomlander	1330.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Bulgang Foreman	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Bullgang Laborer	960	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Concrete Pump Operator	295	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Crane Oiler	1924.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Electrician	1279.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Heavy Duty Mechanic Welder	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Hyd Crane Operator	760	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Iron Worker	3948.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Iron Worker Foreman	493.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Lead Miner	1423	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Master Mechanic	480	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Mechanic/Welder	1688	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Miner	9831.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Shaft Crane Operator	1976.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Shifter	1494	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Toplander	1816.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Truck Driver	2179.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-35					
SF - Eastern - 36	Bottomlander	9170	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Bullgang Foreman	7693.9	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Bullgang Laborer	25595.5	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Conveyor Belt Man	4700	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Crane Oiler	9170	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Dozer Operator	4600	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Electrician	11350	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Fanline Carrier Operator	5000	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Flat Truck Driver	2590	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Hyd Crane Operator	5580	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Lead Miner	5750	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Loader Operator	4600	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Man Transport Truck Operator	5103.9	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Master Mechanic	2500	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Mechanic/Welder	16440	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Miner	43620	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Operating Engineer	4600	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Operator G2 Plant Operator	4600	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Segment Carrier Operator	32000	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Shaft Crane Operator	9170	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Shifter	5750	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	TBM Operator	10200	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Toplander	9170	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Utility Truck Operator	5103.9	20	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-36					
SF - Eastern - 37	Bottomlander	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Bullgang Foreman	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Bullgang Laborer	600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Crane Oiler	815	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Electrician	1854	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Forklift Operator	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Heavy Duty Mechanic Welder	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Hyd Crane Operator	815	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Lead Miner	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Master Mechanic	300	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Mechanic/Welder	1854	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Miner	4504	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Shaft Crane Operator	1139	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Shifter	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Toplander	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Utility Truck Operator	174	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-37					
SF - Eastern - 38	Bottomlander	247	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Bullgang Foreman	16	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Bullgang Laborer	32	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Carpenter Foreman	318	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Carpenter	1272.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Compactor Operator	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Concrete Superintendent	3360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Cost Engineer	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Crane Oiler	2118	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 38	Dozer Operator	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Electrical Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	EMT	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Environmental Manager	5644.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Equipment Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Excavator Operator	405.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Field Engineer	5040	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Flat Truck Driver	16	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	General Foreman	1658	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	General Laborer	10137.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	General Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Geotechnical Manager	5644.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Grade Setter / Checker	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Grader Operator	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Hyd Crane Operator	1698.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Iron Worker	9158.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Iron Worker Foreman	1633.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Lead Miner	798.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Loader Operator	1028.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Mechanic/Welder	655	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Miner	6992.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Office Administrator	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Office Manager	5644.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Operating Engineer	2133	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Operator G2 Plant Operator	4266	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Operator G3 BH-1 Loader	2133	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Operator G3a Cranes 45 Ton	2133	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Operator G4 Grade Check	2133	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Operator G4 Heavy Duty Mechanic	2133	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Project Engineer	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Project Manager	5644.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	QC Manager	5644.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	QC Technician	3360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Runner	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Safety Engineer	13440	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Safety Manager	5644.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Schedule Engineer	3360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Shaft Crane Operator	2365	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Shift Engineers	13440	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Shifter	2413.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Survey Party Chief	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Survey Rod Man	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Teamster G1 Hwy	2133	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Teamster G2 Hwy	2133	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Toplander	1447	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Truck Driver	3971.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Tunnel Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Tunnel Walkers	13440	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-38					
SF - Eastern - 39	Bottomlander	1330.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Bullgang Foreman	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Bullgang Laborer	960	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Concrete Pump Operator	295	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Crane Oiler	1924.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Electrician	1279.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Heavy Duty Mechanic Welder	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Hyd Crane Operator	660	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Iron Worker	3948.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Iron Worker Foreman	493.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Lead Miner	1323	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Master Mechanic	480	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Mechanic/Welder	1688	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Miner	9031.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Shaft Crane Operator	1976.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Shifter	1394	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Toplander	1816.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Truck Driver	2185.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-39					
SF - Eastern - 40	Bottomlander	9181	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Bullgang Foreman	7609	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Bullgang Laborer	25429.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Conveyor Belt Man	4710	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Crane Oiler	9181	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Dozer Operator	4610	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Electrician	11360	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Fanline Carrier Operator	5000	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Flat Truck Driver	2504	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Hyd Crane Operator	5408	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Lead Miner	5760	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Loader Operator	4610	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Man Transport Truck Operator	5105.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Master Mechanic	2500	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Mechanic/Welder	18864	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Miner	43728	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Operating Engineer	4610	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Operator G2 Plant Operator	4610	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Segment Carrier Operator	32030	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Shaft Crane Operator	9181	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Shifter	6475	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	TBM Operator	10220	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Toplander	9181	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Utility Truck Operator	5105.3	20	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-40					
SF - Eastern - 41	Bottomlander	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Bullgang Foreman	100	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 41	Bullgang Laborer	600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Crane Oiler	815	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Electrician	1854	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Forklift Operator	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Heavy Duty Mechanic Welder	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Hyd Crane Operator	815	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Lead Miner	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Master Mechanic	300	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Mechanic/Welder	1854	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Miner	4504	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Shaft Crane Operator	1139	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Shifter	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Toplander	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Utility Truck Operator	174	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-41					
SF - Eastern - 42	Bullgang Foreman	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Bullgang Laborer	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Carpenter	252	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Carpenter Foreman	63	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Compactor Operator	4256.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Concrete Superintendent	8265.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Cost Engineer	16531.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Dozer Operator	4054.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Electrical Superintendent	16531.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	EMT	16531.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Environmental Manager	16531.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Equipment Superintendent	16531.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Field Engineer	12398.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Flagger	404	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Flat Truck Driver	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	General Foreman	202	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	General Laborer	530	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	General Superintendent	16531.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Geotechnical Manager	16531.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Grade Setter / Checker	4054.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Grader Operator	4054.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Hyd Crane Operator	863	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Laborer G2 General	10641	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Loader Operator	202	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Mechanic/Welder	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Office Administrator	16531.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Office Manager	16531.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Operating Engineer	3547	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Operator G2 Plant Operator	7094	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Operator G3 BH-1 Loader	3547	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Operator G3a Cranes 45 Ton	3547	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Operator G4 Grade Check	3547	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Operator G4 Heavy Duty Mechanic	3547	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Project Engineer	16531.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Project Manager	16531.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	QC Manager	16531.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	QC Technician	8265.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Runner	16531.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Safety Engineer	33062.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Safety Manager	16531.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Schedule Engineer	8265.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Shift Engineers	33062.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Survey Party Chief	16531.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Survey Rod Man	16531.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Teamster G1 Hwy	3547	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Teamster G2 Hwy	3547	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Truck Driver	3852.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Tunnel Superintendent	16531.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Tunnel Walkers	33062.4	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-42					
SF - Eastern - 43	Bottomlander	236.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Bullgang Foreman	15.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Bullgang Laborer	30.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Carpenter	2361	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Carpenter Foreman	464.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Compactor Operator	233.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Crane Oiler	1746.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Dozer Operator	116.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Excavator Operator	388	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Flagger	233.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Flat Truck Driver	15.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	General Foreman	1629	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	General Laborer	8791.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Grade Setter / Checker	116.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Grader Operator	116.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Hyd Crane Operator	1541.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Iron Worker	8641.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Iron Worker Foreman	1369	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Lead Miner	689.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Loader Operator	1100.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Mechanic/Welder	1164.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Miner	1799	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Shaft Crane Operator	1983	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Shifter	1549.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Toplander	1252.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Truck Driver	1261.4	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-43					
SF - Eastern - 44	Bottomlander	737	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Concrete Pump Operator	251.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Crane Oiler	1083	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 44	Electrician	119.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Iron Worker	3196.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Iron Worker Foreman	399.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Lead Miner	735.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Mechanic Welder	484.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Miner	4331	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Shaft Crane Operator	1135	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Shifter	806.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Toplander	1135	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Truck Driver	1275.1	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-44					
SF - Eastern - 45	Compactor Operator	2901.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	Dozer Operator	4235.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	General Foreman		10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	Grade Setter / Checker	4235.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	Grader 16H - 16' Blade		10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	Grader Operator	7136.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	Loader Operator	1334.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	Operator G4 Grade Check		10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	Scraper Operator		10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	Truck Driver	4235.7	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-45					
SF - Eastern - 46	Bottomlander	236.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Bullgang Foreman	91.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Bullgang Laborer	183.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Carpenter	1691.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Carpenter Foreman	362.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Compactor Operator	3445	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Crane Oiler	1746.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Dozer Operator	3445	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Excavator Operator	388	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Flat Truck Driver	91.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	General Foreman	1512.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	General Laborer	7862.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Grade Setter / Checker	3445	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Grader Operator	3445	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Hyd Crane Operator	1704.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Iron Worker	8023.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Iron Worker Foreman	1414.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Lead Miner	689.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Loader Operator	983	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Mechanic/Welder	1240.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Miner	6099.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Shaft Crane Operator	1983	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Shifter	2087.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Toplander	1252.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Truck Driver	4444.2	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-46					
SF - Eastern - 47	Bottomlander	704.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Bullgang Foreman	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Bullgang Laborer	960	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Concrete Pump Operator	240.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Crane Oiler	1196	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Electrician	274	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Heavy Duty Mechanic Welder	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Hyd Crane Operator	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Iron Worker	3057.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Iron Worker Foreman	382.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Lead Miner	703.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Master Mechanic	480	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Mechanic/Welder	623.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Miner	4142.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Shaft Crane Operator	1245.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Shifter	771.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Toplander	1085.7	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-47					
SF - Eastern - 48	Bottomlander	43155.5	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Bullgang Foreman	42911.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Bullgang Laborer	145535.4	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Conveyor Belt Man	30826	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Crane Oiler	43155.5	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Dozer Operator	18102.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Electrician	62536	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Fanline Carrier Operator	29484	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Flat Truck Driver	13054.8	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Hyd Crane Operator	26865.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Lead Miner	32128	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Loader Operator	18102.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Master Mechanic	14742	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Mechanic/Welder	90332.8	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Miner	241723.5	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Operating Engineer	29152.2	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Operator G2 Plant Operator	29152.2	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Segment Carrier Operator	206390.4	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Shaft Crane Operator	8979.8	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Shifter	32128	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	TBM Operator	58370.2	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Toplander	43155.5	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Truck Driver	71845	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Utility Truck Operator	29856.4	20	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-48					
SF - Eastern - 49	Bottomlander	1282.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Bullgang Foreman	176.5	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 49	Bullgang Laborer	753	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Crane Oiler	815	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Electrician	2097.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Flat Truck Driver	76.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Forklift Operator	567.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Heavy Duty Mechanic Welder	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Hyd Crane Operator	968	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Lead Miner	1282.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Master Mechanic	300	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Mechanic/Welder	2173.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Miner	5963.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Shaft Crane Operator	1382.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Shifter	1282.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Toplander	1282.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Utility Truck Operator	417.3	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-49					
SF - Eastern - 50	Carpenter Apprentice	384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 50	Carpenter Foreman	384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 50	Electrical Foreman	192	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 50	Electrician Journeyman	384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 50	Iron Worker Journeyman Rebar/Stru	768	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 50	Laborer G2 General	768	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 50	Millwright	384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 50	Operator G2a Cranes 45 to 100 t	384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 50	Teamster G3 Boom Truck	192	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-50					
SF - Eastern - 51	Carpenter Apprentice	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 51	Carpenter Foreman	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 51	Electrical Foreman	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 51	Electrician Journeyman	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 51	Iron Worker Journeyman Rebar/Stru	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 51	Laborer G2 General	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 51	Millwright	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 51	Operator G2a Cranes 45 to 100 t	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 51	Teamster G3 Boom Truck	200	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-51					
SF - Eastern - 52	Laborer G4 Clean-up	34209.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 52	OPERATING ENGINEER FOREMAN	17104.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 52	Operator G2 Micro Tunnel	2883	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 52	Operator G2 Plant Operator	14221.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 52	Operator G3 Loader >4cy	34209.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 52	Operator G4 Loader <4.1cy	5766	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 52	Operator G5 Concrete Pump	11839	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 52	Operator G7 Oiler	5265.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 52	Operator G8a Skidsteer <Bobcat 743	11839	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-52					
SF - Eastern - 53	Laborer G2 General	404	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 53	OPERATING ENGINEER FOREMAN	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 53	Operator G3 BH-Loader>3/4cy	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 53	Operator G4 Grade Check	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 53	Operator G5 Asphalt Roller	202	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 53	Operator G5 Paver	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 53	Teamster G2 Hwy ED 6-8cy, Water<7	50.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-53					
SF - Eastern - 54	Laborer G2 General	404	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 54	OPERATING ENGINEER FOREMAN	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 54	Operator G3 BH-Loader>3/4cy	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 54	Operator G4 Grade Check	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 54	Operator G5 Asphalt Roller	202	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 54	Operator G5 Paver	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 54	Teamster G2 Hwy ED 6-8cy, Water<7	50.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-54					
SF - Eastern - 55	Laborer G2 Concrete Laborer	600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Laborer G2 General	280	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Laborer G3 Flagman	880	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	OPERATING ENGINEER FOREMAN	720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Operator G2 Excavator 3.5 to 7.0 cy	1200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Operator G2 Finish Blade	210	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Operator G3 Loader >4cy	40	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Operator G4 Dozer & Push Cat	3180	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Operator G4 Scraper	2000	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Operator G6 Tractor	640	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Teamster G2 Hwy ED 6-8cy, Water<7	4600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Teamster G4 ED 25-65 Cy	200	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-55					

Marine Inventory for Southern Complex on Byron Tract - Eastern
Option 6

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Southern Complex on Byron Tract - Eastern
Option 6

Code	# day	Locomotive Type	From Depot Site	Delivery Depot	Rail Cars	Rail Cars/Day	Main Railroad	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
SF - Eastern - 5	22	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 7	710	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 9	201	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 10	72	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 11	277	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 12	712	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 14	649	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 15	265	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 16	147	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 18	29	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 19	325	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 20	680	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 22	269	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 23	160	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 24	180	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 26	1355	Cement, Aggregate, Sand, Flyash, B	Stockton	Southern Complex	2398	1.8	UPRR						
SF - Eastern - 27	1750	Soil Material	Stockton	Southern Complex	24052	13.7	UPRR						
SF - Eastern - 29	535	Riprap	Stockton	Southern Complex	3443	6.4	UPRR						
SF - Eastern - 30	186	Cement, Aggregate, Sand, Flyash, R	Stockton	Southern Complex	393	2.1	UPRR						
SF - Eastern - 31	251	Cement, Aggregate, Sand, Flyash, B	Stockton	Southern Complex	950	3.8	UPRR						
SF - Eastern - 34	747	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 35	90	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 37	38	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 39	460	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 41	37	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 44	85	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						

Helicopter Inventory for Southern Complex on Byron Tract - Central Option 6

For 36 new transmission towers along 8.3 miles of new 230 kV line

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
SF - Central 5			2		

Earthmoving/Paving Assumptions for Southern Complex on Byron Tract - Eastern
Option 6

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
SF - Eastern - 1		208									
SF - Eastern - 2		324									
SF - Eastern - 3		253		90891	359	238663	943				
SF - Eastern - 4		318		48121	151	100678	317			1403505	4414
SF - Eastern - 5	30.7	22	1.4			14400	655				
SF - Eastern - 7		710								243302.4	343
SF - Eastern - 9		201		960	5	4800	24				
SF - Eastern - 10		72				4272	59				
SF - Eastern - 11		277		68391	247	28061.6	101				
SF - Eastern - 12		712		156140.7	219						
SF - Eastern - 13		794		69732.5	88	4601.3	6				
SF - Eastern - 14		649		112320	173		0				
SF - Eastern - 15B		335		191136	571	22486.6	67				
SF - Eastern - 16		147				4336	29				
SF - Eastern - 17		33				652.9	20				
SF - Eastern - 18		29				1451	50				
SF - Eastern - 19		325				16098	50			224118	690
SF - Eastern - 20		680					0				
SF - Eastern - 22		269					0				
SF - Eastern - 23		160		150974	944	185339	1158			126720	792
SF - Eastern - 24	921	180	5.1				0				
SF - Eastern - 25		393		2799911	7124	70220	179				
SF - Eastern - 26		1355				9774800	7214				
SF - Eastern - 27		1750									
SF - Eastern - 28		2154									
SF - Eastern - 29	3	535	0.01		0	344210	643				
SF - Eastern - 30		186		61000	328	102835	553				
SF - Eastern - 31		251		154044	614	2000	8				
SF - Eastern - 32		138									
SF - Eastern - 33		255									
SF - Eastern - 34		747		109000	146	135982	182				
SF - Eastern - 35		90									
SF - Eastern - 36		313									
SF - Eastern - 37		38									
SF - Eastern - 38		391		109027	279	135982	348				
SF - Eastern - 39		460									
SF - Eastern - 40		345									
SF - Eastern - 42		2099				153677	73				
SF - Eastern - 43		238		87973.2	370						
SF - Eastern - 44		85		142728	1679						
SF - Eastern - 45		165		136924.4							
SF - Eastern - 46		442		87973.2	199	151582.5	343				
SF - Eastern - 48		1792		3165.6	2						
SF - Eastern - 49		71									
SF - Eastern - 50		40									
SF - Eastern - 51		85								431730	35978
SF - Eastern - 53		12								431730	43173
SF - Eastern - 54		10									
SF - Eastern - 55	376	257	1.5			983488	3827				

**Demolition Assumptions for Southern Complex on Byron Tract - Eastern
Option 6**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Southern Complex West of Byron Highway - South Delta Conv - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Mobilization - Gravel Bedding, Formwork, Rebar, Concrete for Slabs	SDC - Central & Eastern - 1	6/19/2030	8/22/2030	46	5	10
Roads, Utilities, Construction Office, Shops, Other Structures	SDC - Central & Eastern - 2	6/25/2030	10/11/2030	80	5	10
Utility, Facility, and Plant Operations	SDC - Central & Eastern - 3	10/14/2030	3/17/2037	1675	5	10
Tunnel Outlet Excavation & Cofferdam	SDC - Central & Eastern - 4	5/8/2030	5/8/2031	261	5	10
South Delta Tunnel Outlet Structure Excavation, Sheet Piles, Forms	SDC - Central & Eastern - 5	5/8/2030	5/6/2031	259	5	10
Reception Shaft - East: Slurry Wall and Guide Wall	SDC - Central & Eastern - 6	5/7/2031	9/12/2031	93	5	10
Reception Shaft - East: Tremie Seal	SDC - Central & Eastern - 7	9/8/2031	9/16/2031	9	7	24
Reception Shaft - East: Dewater Shaft	SDC - Central & Eastern - 8	9/22/2031	9/26/2031	5	5	10
Reception Shaft - East: Tunnel Cradle	SDC - Central & Eastern - 9	9/29/2031	10/6/2031	5	5	10
Reception Shaft - East: Slurry Wall Breakout	SDC - Central & Eastern - 10	10/7/2031	10/31/2031	19	5	10
Reception Shaft - East: Assemble Shaft with Concrete	SDC - Central & Eastern - 11	10/27/2031	1/6/2032	52	5	10
Reception Shaft - West: Slurry Wall and Guide Wall	SDC - Central & Eastern - 12	7/10/2031	12/9/2031	111	5	10
Reception Shaft - West: Tremie Seal	SDC - Central & Eastern - 13	2/6/2032	2/16/2032	10	7	24
Reception Shaft - West: Dewater Shaft	SDC - Central & Eastern - 14	2/20/2032	2/26/2032	5	5	10
Reception Shaft - West: Tunnel Cradle	SDC - Central & Eastern - 15	2/27/2032	3/5/2032	6	5	10
Reception Shaft - West: Slurry Wall Breakout	SDC - Central & Eastern - 16	3/8/2032	4/1/2032	19	5	10
Reception Shaft - West: Assemble Shaft with Concrete	SDC - Central & Eastern - 17	4/2/2032	6/14/2032	54	5	10
Calif Aqueduct Div Channel Excavation and Earthwork	SDC - Central & Eastern - 18	5/8/2030	10/18/2032	640	5	10
Calif Aqueduct Control Structure: Cofferdam	SDC - Central & Eastern - 19	2/3/2031	1/22/2032	350	5	10
Calif Aqueduct Control Structure: Construct Concrete Slabs and Fram	SDC - Central & Eastern - 20	1/8/2032	12/24/2032	250	5	10
Calif Aqueduct Control Structure: Remove Cofferdam	SDC - Central & Eastern - 21	1/25/2033	4/15/2033	59	5	10
Calif Aqueduct Control Structure: Construct Walls	SDC - Central & Eastern - 22	5/25/2032	9/27/2032	90	5	10
Calif Aqueduct Control Structure: Weir and Bridge	SDC - Central & Eastern - 23	9/28/2032	12/3/2032	49	5	10
Calif Aqueduct Control Structure: Gates and Stoplogs	SDC - Central & Eastern - 24	12/3/2032	4/21/2033	100	5	10
South Delta Tunnel Outlet: Excavation	SDC - Central & Eastern - 25	4/24/2034	4/13/2035	253	5	10
South Delta Tunnel Outlet Structure: Construct Slabs and Walls	SDC - Central & Eastern - 26	4/24/2034	7/30/2036	592	5	10
South Delta Tunnel Outlet Building: Construct Slabs and Walls	SDC - Central & Eastern - 27	6/27/2035	1/6/2037	660	5	10
South Delta Tunnel Outlet Building: Gates and Stoplogs	SDC - Central & Eastern - 28	4/2/2036	1/16/2037	208	5	10
South Delta Tunnel Outlet Building: Remove Cofferdam and Construc	SDC - Central & Eastern - 29	1/6/2037	3/17/2037	51	5	10
Southern Complex West of Byron Highway: Site Restoration	SDC - Central & Eastern - 30	1/27/2037	5/4/2037	70	5	10

Total Site Acres

150

APPENDIX G – ATTACHMENT 4

Project Design Capacity 4,500 cfs

FINAL DRAFT

Construction Schedule for Intake 3 Haul Rd - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	I3 HRd-C&E Access -1	6/25/2027	7/8/2027	14	5	10
Embankment	I3 HRd-C&E Access -2	7/9/2027	7/15/2027	5	5	10
Culvert Pipe	I3 HRd-C&E Access -3	7/16/2027	7/19/2027	3	3	10
Subdrain System	I3 HRd-C&E Access -4	7/20/2027	8/4/2027	14	5	10
Road Base	I3 HRd-C&E Access -5	8/5/2027	8/24/2027	15	5	10
Asphalt Paving	I3 HRd-C&E Access -6	8/25/2027	8/30/2027	5	5	10
KRail and Signs	I3 HRd-C&E Access -7	8/31/2027	8/31/2027	1	1	10
Intermediate Overlay	I3 HRd-C&E Access -8	6/17/2030	6/17/2030	1	1	10
Final Overlay	I3 HRd-C&E Access -9	8/18/2037	8/19/2037	2	2	10

Acres **0.4**

Construction Schedule for Intake 5 Haul Rd - Central & Eastern Access Road

All Options

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	I5 HRd-C&E Access -1	4/9/2027	4/26/2027	14	5	10
Embankment	I5 HRd-C&E Access -2	4/27/2027	5/3/2027	5	5	10
Culvert Pipe	I5 HRd-C&E Access -3	5/4/2027	5/5/2027	3	3	10
Subdrain System	I5 HRd-C&E Access -4	5/6/2027	5/25/2027	14	5	10
Road Base	I5 HRd-C&E Access -5	5/26/2027	6/16/2027	16	5	10
Asphalt Paving	I5 HRd-C&E Access -6	6/17/2027	6/23/2027	5	5	10
KRail and Signs	I5 HRd-C&E Access -7	6/24/2027	6/24/2027	1	1	10
Intermediate Overlay	I5 HRd-C&E Access -8	5/15/2030	5/17/2030	3	3	10
Final Overlay	I5 HRd-C&E Access -9	7/1/2037	7/6/2037	5	5	10

Acres

1

Construction Schedule for Intake Haul Rd - Central & Eastern Access Road

Options 1, 2, 7, 8, 9, 10

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	IHRd-C&E Access -1	4/27/2026	7/20/2026	61	5	10
Embankment	IHRd-C&E Access -2	7/21/2026	9/24/2026	48	5	10
Culvert Pipe	IHRd-C&E Access -3	9/25/2026	10/1/2026	5	5	10
Subdrain System	IHRd-C&E Access -4	10/2/2026	12/17/2026	55	5	10
Road Base	IHRd-C&E Access -5	12/18/2026	2/25/2027	50	5	10
Asphalt Paving	IHRd-C&E Access -6	2/26/2027	4/7/2027	30	5	10
KRail and Signs	IHRd-C&E Access -7	4/8/2027	4/8/2027	1	1	10
Intermediate Overlay	IHRd-C&E Access -8	4/30/2030	5/10/2030	9	5	10
Final Overlay	IHRd-C&E Access -9	6/16/2037	7/29/2037	32	5	10

Acres

10.4

NOTE: Access road between Intakes 2 and 3 are included in Intake 2 tables

Construction Schedule for Lambert Rd - Central & Eastern Access Road

For Intake Access Road Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	LRd-C&E Access -1	2/26/2027	3/2/2027	5	5	10
Culvert Pipe	LRd-C&E Access -2	3/3/2027	3/3/2027	1	1	10
Subdrain System	LRd-C&E Access -3	3/4/2027	3/18/2027	11	5	10
Road Base	LRd-C&E Access -4	3/19/2027	3/31/2027	10	5	10
Asphalt Paving	LRd-C&E Access -5	4/1/2027	4/6/2027	5	5	10
KRail and Signs	LRd-C&E Access -6	4/7/2027	4/20/2027	10	5	10
Intermediate Overlay	LRd-C&E Access -7	5/30/2030	6/7/2030	6	5	10
Final Overlay	LRd-C&E Access -8	7/29/2037	8/7/2037	8	5	10

Acres **12.5**

Construction Schedule for Hood-Franklin Park and Ride

For Intake Employees Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	HFPR -1	4/27/2026	7/31/2026	69	5	10
Embankment	HFPR -2	8/3/2026	8/13/2026	9	2	10
Culvert Pipe	HFPR -3	8/14/2026	8/19/2026	5	3	10
Subdrain System	HFPR -4	8/20/2026	8/25/2026	5	5	10
Road Base	HFPR -5	8/26/2026	10/6/2026	30	5	10
Asphalt Paving	HFPR -6	10/7/2026	11/23/2026	27	5	10
Electrical, Striping, and K-Rail Installation	HFPR -7	11/25/2026	11/27/2026	3	3	10

Acres

4.1

Construction Schedule for Hood-Franklin Road Overlay - Central & Eastern Access Road
 For Intake Access Employee Van - Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B
 THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	HFRd-C&E Overlay -1	11/24/2026	11/30/2026	5	5	10
Intermediate Overlay	HFRd-C&E Overlay -2	4/22/2030	4/29/2030	5	5	10
Final Overlay	HFRd-C&E Overlay -3	6/8/2037	6/16/2037	7	5	10
Acres	7.5					

Construction Schedule for SR160 Overlay - Central & Eastern Access Road
 Intakes Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B
 THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Initial Overlay	SR160 C&E Overlay -1	6/24/2027	7/14/2027	15	5	10
Intermediate Overlay	SR160 C&E Overlay -2	7/23/2030	8/12/2030	20	5	10
Final Overlay	SR160 C&E Overlay -3	8/26/2037	9/16/2037	20	5	10

Construction Schedule for Intake 3_3000 cfs_Central & Eastern**Options 1B, 2B, 7B, 8B, 9B, 10B - Tee Screens****THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1****NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION**

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Development of Initial Intake Box Culverts & Gantry Crane	Intake 3 - Central & Eastern - 1	1/1/2026	3/29/2026	64	5	10
Initial Concrete Placement for Sedimentation Basin	Intake 3 - Central & Eastern - 2	1/1/2026	4/29/2033	1677	5	10
Initial Temporary Buildings	Intake 3 - Central & Eastern - 3	2/11/2030	12/13/2030	220	5	10
Phase 1 Sitework	Intake 3 - Central & Eastern - 4	6/24/2030	6/11/2031	252	5	10
Use of Temporary Buildings	Intake 3 - Central & Eastern - 5	2/11/2030	11/27/2036	1772	5	10
Initial Roads and Move SR 160	Intake 3 - Central & Eastern - 6	5/2/2031	6/6/2031	26	5	10
Phase 2 Sitework - Foundations	Intake 3 - Central & Eastern - 7	6/6/2031	2/15/2033	446	5	10
Install Cofferdam	Intake 3 - Central & Eastern - 8	6/6/2031	12/22/2031	144	5	10
Construct Reception Shaft	Intake 3 - Central & Eastern - 9	8/27/2031	5/24/2032	195	5	10
Place Tremie Seal in Reception Shaft	Intake 3 - Central & Eastern - 10	5/25/2032	5/27/2032	2	2	24
Dewater Reception Shaft	Intake 3 - Central & Eastern - 11	5/28/2032	6/3/2032	5	5	10
Assemble Reception Shaft	Intake 3 - Central & Eastern - 12	6/4/2032	9/2/2032	65	5	10
Intake Structure within Cofferdam	Intake 3 - Central & Eastern - 13	12/31/2031	11/30/2033	500	5	10
Intake Connections and Gates	Intake 3 - Central & Eastern - 14	1/22/2032	1/9/2034	513	5	10
Piles and Concrete in Sedimentation Basin	Intake 3 - Central & Eastern - 15	5/17/2032	3/4/2033	210	5	10
Move SR 160 to Final Location	Intake 3 - Central & Eastern - 16	12/28/2032	2/1/2033	26	5	10
Finish Box Culverts	Intake 3 - Central & Eastern - 17	2/15/2033	3/1/2033	9	5	10
Basin Embankments, Gates, Buildings, and Substation	Intake 3 - Central & Eastern - 18	3/1/2033	3/29/2034	281	5	10
Sedimentation Basin Mechanical and Electrical	Intake 3 - Central & Eastern - 19	4/29/2033	3/21/2034	234	5	10
Install Fish Screen, Appurtenant Facilities, Log Boom, and Rip Rap	Intake 3 - Central & Eastern - 20	6/27/2033	7/20/2034	278	5	10
Remove Cofferdam	Intake 3 - Central & Eastern - 21	2/24/2034	9/21/2034	129	5	10
Finish Site Work, Sedimentation Basin Curtain, and Fencing	Intake 3 - Central & Eastern - 22	2/19/2035	7/22/2036	371	5	10
Finish Sedimentation Basin	Intake 3 - Central & Eastern - 23	8/1/2036	10/2/2036	45	5	10
Finish Intake Exteriors	Intake 3 - Central & Eastern - 24	10/3/2036	11/27/2036	39	5	10
Site Restoration	Intake 3 - Central & Eastern - 25	11/28/2036	3/2/2037	69	5	10

Total Site Acres**240**

Construction Schedule for Intake 5_1500 cfs_Central & Eastern**Options 7B, 8B - Tee Screens****THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 4****NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION**

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Development of Initial Intake Box Culverts & Gantry Crane	Intake 5 - Central & Eastern - 1	1/1/2026	3/13/2026	51	5	10
Initial Temporary Buildings	Intake 5 - Central & Eastern - 2	6/7/2029	12/26/2029	145	5	10
Phase 1 Sitework	Intake 5 - Central & Eastern - 3	12/26/2029	10/30/2030	222	5	10
Operations of Temporary Buildings	Intake 5 - Central & Eastern - 4	12/26/2029	3/8/2034	1096	5	10
Phase 2 Sitework - Foundations	Intake 5 - Central & Eastern - 5	10/24/2030	4/2/3032	399	5	10
Initial Roads and Move SR 160	Intake 5 - Central & Eastern - 6	9/26/2030	10/24/2030	21	5	10
Install Cofferdam	Intake 5 - Central & Eastern - 7	10/24/2030	3/20/2031	106	5	10
Construct Reception Shaft	Intake 5 - Central & Eastern - 8	2/28/2031	7/21/2031	105	5	10
Place Tremie Seal in Reception Shaft	Intake 5 - Central & Eastern - 9	7/26/2031	7/28/2031	3	3	24
Dewater Reception Shaft	Intake 5 - Central & Eastern - 10	7/29/2031	8/4/2031	7	7	24
Assemble Reception Shaft	Intake 5 - Central & Eastern - 11	8/11/2031	12/1/2031	80	5	10
Intake Structure within Cofferdam	Intake 5 - Central & Eastern - 12	3/20/2032	3/29/2034	530	5	10
Piles and Concrete in Sedimentation Basin	Intake 5 - Central & Eastern - 13	6/9/2032	3/9/2033	196	5	10
Intake Connections and Gates	Intake 5 - Central & Eastern - 14	3/9/2033	11/2/2034	432	5	10
Sedimentation Basin Mechanical and Electrical	Intake 5 - Central & Eastern - 15	3/9/2033	1/5/2034	215	5	10
Finish Box Culverts	Intake 5 - Central & Eastern - 16	8/6/2031	8/8/2031	3	5	10
Install Fish Screen, Appurtenant Facilities, Log Boom, and Rip Rap	Intake 5 - Central & Eastern - 17	9/9/2033	12/5/2034	63	5	10
Move SR 160 to Final Location	Intake 5 - Central & Eastern - 18	10/6/2033	11/17/2033	31	5	10
Basin Embankments, Gates, Buildings, and Substation	Intake 5 - Central & Eastern - 19	11/18/2033	8/25/2034	200	5	10
Remove Cofferdam - Phase 1	Intake 5 - Central & Eastern - 20	3/21/2034	7/13/2034	83	5	10
Remove Cofferdam - Phase 2	Intake 5 - Central & Eastern - 21	11/1/2034	1/3/2035	46	5	10
Finish Site Work, Sedimentation Basin Curtain, and Fencing	Intake 5 - Central & Eastern - 22	12/23/2035	5/1/2035	95	5	10
Finish Intake Exteriors	Intake 5 - Central & Eastern - 23	5/11/2035	6/27/2035	34	5	10
Site Restoration	Intake 5 - Central & Eastern - 24	6/27/2035	9/9/2035	53	5	10
Finish Sedimentation Basin	Intake 5 - Central & Eastern - 25	3/16/2035	4/10/2035	40	5	10

Total Site Acres**240**

Construction Schedule for Lambert Rd Conc Batch Plant - Central & Eastern

Options 7A, 7B, 8A, 8B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 4

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	LR CBP-C&E -1	10/7/2026	10/14/2026	6	5	10
Embankment	LR CBP-C&E -2	10/15/2026	10/15/2026	1	1	10
Culvert Pipe	LR CBP-C&E -3	10/16/2026	10/16/2026	1	1	10
Subdrain System	LR CBP-C&E -4	10/19/2026	10/19/2026	1	1	10
Road Base	LR CBP-C&E -5	10/20/2026	10/22/2026	3	3	10
Asphalt Paving	LR CBP-C&E -6	10/23/2026	10/27/2026	5	5	10
Erect Batch Plant - Phase 1	LR CBP-C&E -7A	10/28/2026	11/24/2026	19	5	10
Erect Batch Plant - Phase 2	LR CBP-C&E -7B	5/6/2030	5/31/2030	19	5	10
Batch Plant Operations - Phase 1 - Concrete for Shafts	LR CBP-C&E -8	3/17/2027	3/14/2031	1041	5	10
Batch Plant Operations - Phase 2 - Concrete for Intake 5	LR CBP-C&E -9	11/25/2026	8/11/2033	1825	5	10
Batch Plant Operations - Phase 3 - Concrete for Intake 3	LR CBP-C&E -10	6/29/2032	1/29/2035	676	5	10

Acres

Construction Schedule for Dierssen Rd - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

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NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	DRd-C&E Access -1	1/18/2027	1/21/2027	4	4	10
Embankment	DRd-C&E Access -2	1/22/2027	1/26/2027	5	5	10
Culvert Pipe	DRd-C&E Access -3	1/27/2027	1/27/2027	1	1	10
Subdrain System	DRd-C&E Access -4	1/28/2027	2/9/2027	9	5	10
Road Base	DRd-C&E Access -5	2/10/2027	2/18/2027	7	5	10
Asphalt Paving	DRd-C&E Access -6	2/19/2027	2/22/2027	4	4	10
KRail and Signs	DRd-C&E Access -7	2/23/2027	3/16/2027	14	5	10
Intermediate Overlay	DRd-C&E Access -8	5/22/2030	5/24/2030	3	3	10
Final Overlay	DRd-C&E Access -9	7/21/2037	7/24/2037	4	4	10

Acres

7.2

Construction Schedule for Franklin Blvd RR - Central & Eastern Access Road
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Sub-Ballast	FB RR-C&E Access -1	6/10/2026	6/25/2026	12	5	10
Ballast	FB RR-C&E Access -2	6/26/2026	7/14/2026	15	5	10
Track	FB RR-C&E Access -3	7/15/2026	8/27/2026	32	5	10

Construction Schedule for Franklin Blvd - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	FB-C&E Access -1	11/24/2026	11/30/2026	5	5	10
Embankment	FB-C&E Access -2	12/1/2026	12/16/2026	12	5	10
Culvert Pipe	FB-C&E Access -3	12/17/2026	12/17/2026	1	1	10
Subdrain System	FB-C&E Access -4	12/18/2026	12/28/2026	9	5	10
Road Base	FB-C&E Access -5	12/29/2026	1/15/2027	14	5	10
Asphalt Paving	FB-C&E Access -6	1/18/2027	1/21/2027	4	4	10
KRail and Signs	FB-C&E Access -7	1/22/2027	1/22/2027	1	1	10
Intermediate Overlay	FB-C&E Access -8	5/27/2030	5/29/2030	3	3	10
Final Overlay	FB-C&E Access -9	7/24/2037	7/29/2037	4	4	10

Acres

5

Construction Schedule for Twin Cities Ring Levee - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Construct Ring Levee	TCC RL-C&E -1	2/28/2028	6/19/2028	96	5	10

Acres44.8

Construction Schedule for Twin Cities Rd - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	TC Rd-C&E Access -1	1/5/2026	1/7/2026	3	3	10
Culvert Pipe & Subdrain System	TC Rd-C&E Access -2	1/8/2026	1/19/2026	10	5	10
Road Base	TC Rd-C&E Access -3	1/20/2026	2/9/2026	15	5	10
Asphalt Paving & KRail and Signs	TC Rd-C&E Access -4	2/10/2026	2/16/2026	5	5	10
Intermediate Overlay	TC Rd-C&E Access -5	6/10/2030	6/12/2030	3	3	10
Final Overlay	TC Rd-C&E Access -6	9/30/2037	10/5/2037	5	5	10

Acres **3.9**

**Construction Schedule for Twin Cities Complex - Central Tunnel Shaft
Options 8A, 8B**

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Mobilize, Excavate, & Mobilize	TCC-Central - 1	1/5/2026	5/8/2028	611	5	10
Embankment	TCC-Central - 2	3/12/2026	4/21/2026	29	5	10
Subdrain	TCC-Central - 3	4/22/2026	6/9/2026	34	5	10
Mangagement, Engineering, & Field Labor - Reach 2	TCC-Central - 4	3/17/2027	4/21/2036	2373	5	10
Clear and Grub	TCC-Central - 5	5/12/2027	7/12/2027	44	5	10
Excavation, Grading, & Compaction - Reach 2	TCC-Central - 6	3/17/2027	4/24/2028	289	5	10
Raise Shaft Pad for Reach 2	TCC-Central - 7	9/7/2027	4/3/2028	149	5	10
Set Strips, & Concrete for Reach 2	TCC-Central - 8	8/16/2027	11/12/2027	65	5	10
Place Guide Walls Concrete for Reach 2	TCC-Central - 9	4/3/2028	4/26/2028	18	5	10
Slurry Wall, Place Concrete & Rebar, Slurry Wall, Remove Guide Wall, & add Top Beam for Reach 2	TCC-Central - 10	4/27/2028	8/17/2028	81	5	10
Place Guide Walls Concrete for Reach 1	TCC-Central - 11	8/8/2028	8/28/2028	15	5	10
Slurry Wall, Place Concrete & Rebar, Slurry Wall, Remove Guide Wall, & add Top Beam for Reach 1	TCC-Central - 12	8/29/2028	1/4/2029	93	5	10
Excavate Shaft for Reach 2	TCC-Central - 13	1/4/2029	4/4/2029	65	5	10
Mangagement, Engineering, & Field Labor - Reach 1	TCC-Central - 14	3/21/2029	12/11/2034	1495	5	10
Shaft Setup for Reach 1	TCC-Central - 15	3/21/2029	4/18/2029	21	5	10
Excavate Shaft for Reach 1	TCC-Central - 16	4/4/2029	7/3/2029	65	5	10
Place Tremie Seal Rebar, Cooling Pipes, & Seal for Reaches 1 & 2	TCC-Central - 17	6/19/2029	8/2/2029	45	7	24
Dewater Shaft for Reaches 1 & 2	TCC-Central - 18	7/17/2029	8/7/2029	21	7	24
Place TBM Cradle Rebar and Cradle Pour for Reaches 1 & 2	TCC-Central - 19	8/2/2029	8/20/2029	14	5	10
Breakout Slurry Wall for TBM for Reaches 1 & 2	TCC-Central - 20	8/6/2029	9/17/2029	41	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner Reaches 1 & 2	TCC-Central - 21	9/3/2029	1/9/2030	93	5	10
Erect Gantry Crane for Reaches 1 & 2	TCC-Central - 22	11/16/2029	12/10/2029	18	5	10
TBM Assembly including Shaft Utilities for Reach 2	TCC-Central - 23	12/10/2029	6/6/2030	105	5	10
Tunneling Operations including Equipment Delivery for Reach 2	TCC-Central - 24	3/28/2030	12/17/2035	1790	6	20
TBM Assembly including Shaft Utilities for Reach 1	TCC-Central - 25	10/2/2030	1/31/2031	88	5	10
Tunneling Operations including Equipment Delivery for Reach 1	TCC-Central - 26	7/17/2030	9/26/2034	1095	6	20
Remove TBM and Tunnel Equipment for Reach 1	TCC-Central - 27	9/26/2034	12/11/2034	55	5	10
Remove TBM and Tunnel Equipment for Reach 2	TCC-Central - 28	2/15/2036	4/21/2036	48	5	10
Site Restoration	TCC-Central - 29	4/7/2036	10/10/2036	135	5	10

Total Site Acres

507

**Offroad Equipment (Fossil Fuel) Inventory for Twin Cities Complex - Central Tunnel Shaft
Options 8A, 8B**

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
TCC-Central - 1	Air Compressor 185 CFM	Air Compressor	465.3	611	0.8	Diesel Tier 4	49	0.48		
TCC-Central - 1	Boom Truck, 12.5 Tn Boom	Crane	232.96	611	0.4	Diesel or Hybrid	100	0.29		
TCC-Central - 1	CAT D6LGPDozer w winch	Crawler Tractor		611	0.0	Diesel or Hybrid	179	0.43		
TCC-Central - 1	CAT Forklift 5,500 LB	Aerial Lift	28000.2	611	45.8	Diesel	63	0.31		
TCC-Central - 1	Grove RT Crane 30T	Crane	11200.1	611	0.0	Diesel	160	0.29		
TCC-Central - 1	Hydraulic 40 Ton Crane	Crane		611	0.0	Diesel	300	0.29		
TCC-Central - 1	Hydraulic 9 Ton Crane	Crane		611	0.0	Diesel	85	0.29		
TCC-Central - 1	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator		611	0.0	Diesel	384	0.38		
TCC-Central - 1	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	233	611	0.4	Diesel or Hybrid	75	0.31		
TCC-Central - 2	CAT 14 M	Grader	116.4	29	4.0	Diesel	274	0.41		
TCC-Central - 2	CAT 825, Roller	Rollers	232.8	29	8.0	Diesel	315	0.38		
TCC-Central - 2	CAT D6LGPDozer w winch	Crawler Tractor	232.8	29	8.0	Diesel or Hybrid	179	0.43		
TCC-Central - 2	Disk, Towed	Off-Highway Tractor	232.8	29	8.0	Diesel	140	0.44		
TCC-Central - 3	CAT LOADER/HOE 416 E	Rubber Tired Loader	87.3	34	2.6	Diesel	78	0.36		
TCC-Central - 3	Compactor, Trench Roller, Vib 32"w	Roller	174.6	34	5.1	Diesel	20	0.38		
TCC-Central - 5	CAT D8 Dozer	Crawler Tractor	990.0	44	22.5	Diesel Tier 4 or Hybrid Diesel	179	0.43		
TCC-Central - 5	Grader 16H - 16' Blade	Grader	990.0	44	22.5	Diesel	285	0.41		
TCC-Central - 5	623G Scraper Elevate 21 CY	Scaper	1980.0	44	45.0	Diesel	359	0.48		
TCC-Central - 6	CAT 825H Compactor	Rollers	240	289	0.8	Diesel	145	0.38		
TCC-Central - 6	CAT CB-634D Vibratory 84"	Rollers	240	289	0.8	Diesel	315	0.38		
TCC-Central - 6	CAT Grader 16H	Grader	240	289	0.8	Diesel	285	0.41		
TCC-Central - 6	CAT 980 Loader 7.5 CY	Grader	240	289	0.8	Diesel	285	0.41		
TCC-Central - 6	CAT D8 Dozer	Crawler Tractor	2697.9	289	9.3	Diesel Tier 4 or Hybrid Diesel	179	0.43		
TCC-Central - 6	623G Scraper Elevate 21 CY	Scaper	4915.8	289	17.0	Diesel	359	0.48		
TCC-Central - 6	CAT Forklift 5,500 LB	Aerial Lift	400	289	1.4	Diesel	63	0.31		
TCC-Central - 6	Hydraulic 40 Ton Crane	Crane	400	289	1.4	Diesel	300	0.29		
TCC-Central - 6	Hydraulic 9 Ton Crane	Crane	853.2	289	3.0	Diesel	85	0.29		
TCC-Central - 7	CAT CB-634D Vibratory 84"	Rollers	1610.3	149	10.8	Diesel	315	0.38		
TCC-Central - 7	CAT Grader 16H	Grader	1610.3	149	10.8	Diesel	285	0.41		
TCC-Central - 7	CAT D8 Dozer	Crawler Tractor	1610.3	149	10.8	Diesel Tier 4 or Hybrid Diesel	179	0.43		
TCC-Central - 9	CAT Hyd Excavator 1CY	Excavator	9.2	18	0.5	Diesel	138	0.38		
TCC-Central - 9	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	9.2	18	0.5	Diesel or Hybrid	130	0.36		
TCC-Central - 10	1600 CFM Compressor Diesel	Air Compressor	485.9	81	6.0	Diesel Tier 4	540	0.48		
TCC-Central - 10	250 CFM Compressor Diesel	Air Compressor	13.4	81	0.2	Diesel Tier 3	75	0.48		
TCC-Central - 10	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	849.4	81	10.5	Diesel or Hybrid	130	0.36		
TCC-Central - 10	CAT Hyd Excavator 1CY	Excavator	363.5	81	4.5	Diesel	138	0.38		
TCC-Central - 10	Hydraulic 55 Ton Crane	Crane	971.8	81	12.0	Diesel	350	0.29		
TCC-Central - 10	Hydraulic Excavator to 3.5 tons = Kobelco SK485LC' 2.75cy' 345 hp Excavator	Excavator	363.5	81	4.5	Diesel	345	0.38		
TCC-Central - 10	Manitowoc 777 200 Ton Crane	Crane	971.8	81	12.0	Diesel	760	0.29		
TCC-Central - 10	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	485.9	81	6.0	Diesel	8	0.56		
TCC-Central - 10	Slurry Wall Techniwell	Pumps	485.9	81	6.0	Diesel	500	0.74		
TCC-Central - 11	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	9.2	15	0.6	Diesel or Hybrid	130	0.36		
TCC-Central - 11	CAT Hyd Excavator 1CY	Excavator	9.2	15	0.6	Diesel	138	0.38		
TCC-Central - 12	1600 CFM Compressor Diesel	Air Compressor	485.9	93	5.2	Diesel Tier 4	540	0.48		
TCC-Central - 12	250 CFM Compressor Diesel	Air Compressor	13.4	93	0.1	Diesel Tier 3	75	0.48		
TCC-Central - 12	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	485.9	93	5.2	Diesel or Hybrid	130	0.36		
TCC-Central - 12	CAT Hyd Excavator 1CY	Excavator	971.8	93	10.4	Diesel	138	0.38		
TCC-Central - 12	Hydraulic 55 Ton Crane	Crane	971.8	93	10.4	Diesel	350	0.29		
TCC-Central - 12	Hydraulic Excavator to 3.5 tons =	Excavator	363.5	93	3.9	Diesel	345	0.38		
TCC-Central - 12	Manitowoc 777 200 Ton Crane	Crane	971.8	93	10.4	Diesel	760	0.29		
TCC-Central - 12	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	485.9	93	5.2	Diesel	8	0.56		
TCC-Central - 12	Slurry Wall Techniwell	Pumps	485.9	93	5.2	Diesel	500	0.74		
TCC-Central - 13	Manitowoc 777 200 Ton Crane	Crane	658.1	65	10.1	Diesel	760	0.29		
TCC-Central - 15	1600 CFM Compressor Diesel	Air Compressor	149.3	21	7.1	Diesel Tier 4	540	0.48		
TCC-Central - 15	CAT Forklift 5,500 LB	Aerial Lift	400	21	19.0	Diesel	63	0.31		
TCC-Central - 15	Heavy Duty Mechanic Welder	Welder	149.3	21	7.1	Diesel	400	0.45		
TCC-Central - 15	Hydraulic 25 Ton Crane	Crane	149.3	21	7.1	Diesel	100	0.29		
TCC-Central - 15	Hydraulic 40 Ton Crane	Crane	400	21	19.0	Diesel	300	0.29		
TCC-Central - 15	Hydraulic 9 Ton Crane	Crane	400	21	19.0	Diesel	85	0.29		
TCC-Central - 15	Telescope RT Forklift 5500	Forklift	149.3	21	7.1	Diesel	63	0.2		
TCC-Central - 15	Truck Crane Lattice Boom 90T	Crane	149.3	21	7.1	Diesel Tier 4	300	0.29		
TCC-Central - 16	Manitowoc 777 200 Ton Crane	Crane	658.1	65	10.1	Diesel	760	0.29		
TCC-Central - 17	Manitowoc 777 200 Ton Crane	Crane	513.7	45	11.4	Diesel	760	0.29		
TCC-Central - 17	Hydraulic 40 Ton Crane	Crane	153	45	3.4	Diesel	300	0.29		
TCC-Central - 17	Hydraulic 25 Ton Crane	Crane	380	45	8.4	Diesel	100	0.29		
TCC-Central - 18	Hydraulic 15 Ton Crane	Crane	191.3	21	9.1	Diesel	85	0.29		
TCC-Central - 18	Dewater Pump 6"	Pump	765.2	21	36.4	Diesel	50	0.74		
TCC-Central - 18	150 KW Diesel Generator	Generator	191.3	21	9.1	Diesel Tier 4	183	0.74		
TCC-Central - 19	Manitowoc 777 200 Ton Crane	Crane	108.7	14	7.8	Diesel	760	0.29		
TCC-Central - 19	Trailer Conc Pump 100 CY HR	Pump	40.7	14	2.9	Diesel	200	0.74		
TCC-Central - 19	250 CFM Compressor Diesel	Air Compressor	40.7	14	2.9	Diesel Tier 3	75	0.48		
TCC-Central - 20	250 CFM Compressor Diesel	Air Compressor	520.8	41	12.7	Diesel Tier 3	75	0.48		
TCC-Central - 20	Manitowoc 777 200 Ton Crane	Crane	520.8	41	12.7	Diesel	760	0.29		
TCC-Central - 21	250 CFM Compressor Diesel	Air Compressor	962.2	93	10.3	Diesel Tier 3	75	0.48		
TCC-Central - 21	Manitowoc 777 200 Ton Crane	Crane	681.7	93	7.3	Diesel	760	0.29		
TCC-Central - 21	Trailer Conc Pump 100 CY HR	Pump	442	93	4.8	Diesel	200	0.74		

TCC-Central - 21	Manitowoc 999-275 Ton Crane	Crane	468.3	93	5.0	Diesel	900	0.29
TCC-Central - 22	1600 CFM Compressor Diesel	Air Compressor	149.3	18	8.3	Diesel Tier 4	540	0.48
TCC-Central - 22	Hydraulic 25 Ton Crane	Crane	149.3	18	8.3	Diesel	100	0.29
TCC-Central - 22	Truck Crane Lattice Boom 90T	Crane	149.3	18	8.3	Diesel Tier 4	300	0.29
TCC-Central - 22	Telescope RT Forklift 5500	Forklift	149.3	18	8.3	Diesel	63	0.2
TCC-Central - 22	Heavy Duty Mechanic Welder	Welder	149.3	18	8.3	Diesel	400	0.45
TCC-Central - 23	250 CFM Compressor Diesel	Air Compressor	2146.7	105	20.4	Diesel Tier 3	75	0.48
TCC-Central - 23	Hydraulic 40 Ton Crane	Crane	3891.6	105	37.1	Diesel	300	0.29
TCC-Central - 23	Hydraulic 9 Ton Crane	Crane	3051.6	105	29.1	Diesel	85	0.29
TCC-Central - 23	Air Compressor 185 CFM	Air Compressor	22.6	105	0.2	Diesel Tier 4	49	0.48
TCC-Central - 23	Boom Truck, 12.5 Tn Boom	Crane	11.3	105	0.1	Diesel or Hybrid	100	0.29
TCC-Central - 23	CAT Forklift 5,500 LB	Aerial Lift	3051.6	105	29.1	Diesel	63	0.31
TCC-Central - 23	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	11.3	105	0.1	Diesel or Hybrid	75	0.31
TCC-Central - 24	250 CFM Compressor Diesel	Air Compressor	29549.3	1790	16.5	Diesel Tier 3	75	0.48
TCC-Central - 24	Hydraulic 40 Ton Crane	Crane	12204.3	1790	6.8	Diesel	300	0.29
TCC-Central - 24	Hydraulic 9 Ton Crane	Crane	12204.3	1790	6.8	Diesel	85	0.29
TCC-Central - 24	CAT Forklift 5,500 LB	Aerial Lift	12204.3	1790	6.8	Diesel	63	0.31
TCC-Central - 24	CAT D8 Dozer	Crawler Tractor	15068.7	1790	8.4	Diesel Tier 4 or Hybrid Diesel	179	0.43
TCC-Central - 24	CAT 988 H Wheel Loader	Rubber Tired Loader	15068.7	1790	8.4	Diesel	400	0.36
TCC-Central - 24	Grout Pump	Cement & Mortar Mix	1435.5	1790	0.8	Diesel	500	0.56
TCC-Central - 24	Grout Mixer	Cement & Mortar Mix	1435.5	1790	0.8	Diesel	70	0.56
TCC-Central - 25	250 CFM Compressor Diesel	Air Compressor	2146.7	88	24.4	Diesel Tier 3	75	0.48
TCC-Central - 25	Hydraulic 40 Ton Crane	Crane	840	88	9.5	Diesel	300	0.29
TCC-Central - 26	250 CFM Compressor Diesel	Air Compressor	18449.6	1095	16.8	Diesel Tier 3	75	0.48
TCC-Central - 26	Hydraulic 40 Ton Crane	Crane	9836.2	1095	9.0	Diesel	300	0.29
TCC-Central - 26	Hydraulic 9 Ton Crane	Crane	9836.2	1095	9.0	Diesel	85	0.29
TCC-Central - 26	CAT Forklift 5,500 LB	Aerial Lift	9836.2	1095	9.0	Diesel	63	0.31
TCC-Central - 26	CAT D8 Dozer	Crawler Tractor	9650.7	1095	8.8	Diesel Tier 4 or Hybrid Diesel	179	0.43
TCC-Central - 26	CAT 988 H Wheel Loader	Rubber Tired Loader	9650.7	1095	8.8	Diesel	400	0.36
TCC-Central - 26	Grout Pump	Cement & Mortar Mix	909.8	1095	0.8	Diesel	500	0.56
TCC-Central - 26	Grout Mixer	Cement & Mortar Mix	909.8	1095	0.8	Diesel	70	0.56
TCC-Central - 27	1600 CFM Compressor Diesel	Air Compressor	93.3	55	1.7	Diesel Tier 4	540	0.48
TCC-Central - 27	Heavy Duty Mechanic Welder	Welder	93.3	55	1.7	Diesel	400	0.45
TCC-Central - 27	Hydraulic 25 Ton Crane	Crane	93.3	55	1.7	Diesel	100	0.29
TCC-Central - 27	Hydraulic 55 Ton Crane	Crane	667.3	55	12.1	Diesel	350	0.29
TCC-Central - 27	Manitowoc 777 200 Ton Crane	Crane	667.3	55	12.1	Diesel	760	0.29
TCC-Central - 27	Telescope RT Forklift 5500	Forklift	737.3	55	13.4	Diesel	63	0.2
TCC-Central - 27	Truck Crane Lattice Boom 90T	Crane	93.3	55	1.7	Diesel Tier 4	300	0.29
TCC-Central - 28	1600 CFM Compressor Diesel	Air Compressor	93.3	48	1.9	Diesel Tier 4	540	0.48
TCC-Central - 28	Heavy Duty Mechanic Welder	Welder	93.3	48	1.9	Diesel	400	0.45
TCC-Central - 28	Hydraulic 25 Ton Crane	Crane	93.3	48	1.9	Diesel	100	0.29
TCC-Central - 28	Hydraulic 55 Ton Crane	Crane	1152.7	48	24.0	Diesel	350	0.29
TCC-Central - 28	Hydraulic 9 Ton Crane	Crane	76.5	48	1.6	Diesel	85	0.29
TCC-Central - 28	Manitowoc 777 200 Ton Crane	Crane	667.3	48	13.9	Diesel	760	0.29
TCC-Central - 28	Telescope RT Forklift 5500	Forklift	924	48	19.3	Diesel	63	0.2
TCC-Central - 28	Truck Crane Lattice Boom 90T	Crane	93.3	48	1.9	Diesel Tier 4	300	0.29
TCC-Central - 29	Air Compressor 185 CFM	Air Compressor	22.6	135	0.2	Diesel Tier 4	49	0.48
TCC-Central - 29	Boom Truck, 12.5 Tn Boom	Crane	11.3	135	0.1	Diesel or Hybrid	100	0.29
TCC-Central - 29	CAT 12 M	Grader	700	135	5.2	Diesel	173	0.41
TCC-Central - 29	CAT 390 MASS EXC	Excavator	700	135	5.2	Diesel	534	0.38
TCC-Central - 29	Cat 6 mgal w/ CAT 725 Tractor, 320hp	Crawler Tractor	745	135	5.5	Diesel	320	0.43
TCC-Central - 29	CAT 621G Scraper, Conventional	Scraper	500	135	3.7	Diesel	330	0.48
TCC-Central - 29	CAT 631G Scraper, Conventional	Scraper	1650	135	12.2	Diesel	515	0.48
TCC-Central - 29	CAT 815, Roller	Rollers	500	135	3.7	Diesel	170	0.38
TCC-Central - 29	CAT 966 GII Wheel Loader	Rubber Tired Loader	100	135	0.7	Diesel	170	0.36
TCC-Central - 29	CAT 966 Loader 5.5 CY	Rubber Tired Loader	198.9	135	1.5	Diesel	286	0.36
TCC-Central - 29	CAT D8Rii, Dozer w winch	Crawler Tractor	2150	135	15.9	Diesel	310	0.43
TCC-Central - 29	CAT D9R, Dozer w ripper	Crawler Tractor	1560	135	11.6	Diesel	410	0.43
TCC-Central - 29	CAT Hyd Excavator 1CY	Excavator	198.9	135	1.5	Diesel	138	0.38
TCC-Central - 29	Disk, Towed	Off-Highway Tractor	280	135	2.1	Diesel	140	0.44
TCC-Central - 29	Farm Tractor, All Wheel Drive, 285 HP	Off-Highway Tractor	810	135	6.0	Diesel	80	0.44
TCC-Central - 29	Hydro Mulcher, 18 HP	Pump	100	135	0.7	Diesel	25	0.29
TCC-Central - 29	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	2100	135	15.6	Diesel	345	0.38
TCC-Central - 29	Manitowoc 777 200 Ton Crane	Crane	198.9	135	1.5	Diesel	760	0.29
TCC-Central - 29	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	11.3	135	0.1	Diesel or Hybrid	75	0.31

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

**Offroad Equipment (Electric) Inventory for Twin Cities Complex - Central Tunnel Shaft
Options 8A, 8B**

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
TCC-Central - 1	400A, Electric Welder	465.9	611	0.25	0
TCC-Central - 2	Water Pump 4" Electric	27.9	29	1	1
TCC-Central - 2	Light Plant, 4 lite, 1000w	931	29		
TCC-Central - 10	Gantry Crane		81	0.25	0
TCC-Central - 23	400A, Electric Welder	22.6	105	0.25	0
TCC-Central - 23	Gantry Crane	1073.3	105	0.25	3
TCC-Central - 23	Axial Fan 114,000 CFM	1540	105	50	733
TCC-Central - 24	Gantry Crane	62075.5	1790	0.25	9
TCC-Central - 24	Axial Fan 114,000 CFM	294650.3	1790	50	8,230
TCC-Central - 25	Gantry Crane	2006.7	88	0.25	6
TCC-Central - 25	Axial Fan 114,000 CFM	1540	88	50	875
TCC-Central - 26	Gantry Crane	52961.1	1095	0.25	12
TCC-Central - 26	Axial Fan 114,000 CFM	185065.1	1095	50	8,450
TCC-Central - 27	Gantry Crane	644	55	0.25	3
TCC-Central - 28	Gantry Crane	830.7	48	0.25	4
TCC-Central - 29	400A, Electric Welder	22.6	135	0.25	0

Electricity for TBM Operations included in the Summary Workbook

Vehicle Inventory for Twin Cities Complex - Central Tunnel Shaft
Options BA, BB

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. office)	# day	Vehicle Hours	Hours/Trip	# of Vehicles/Trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
TCC-Central - 1	Pickup, 1/2T, 2wd	Materials from Sacramento	611	32065.9	0.6	56587	92.6	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 1	Pickup, 3/4T, 4wd	Materials from Sacramento	611	77000.0	1.1	72188	118.1	South Delta Conveyance to/from Stockton	17	34	Hybrid Gasoline	
TCC-Central - 1	Truck Flatbed 4 T Highway	Materials from Sacramento	611	28000.2	0.6	49412	80.9	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 1	Truck Flatbed, 10T, Hwy	Crane, Tractor and Aerial Lift from Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 1	Truck Flatbed, 10T, Hwy	Excavator, Two Cranes, Aerial Lift from and to Sacramento	2	2.3	0.6	4	2.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 2	Pickup, 1/2T, 2wd	Materials from Sacramento	29	232.8	0.6	411	14.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 2	Truck Flatbed, 10T, Hwy	Roller from Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 2	Truck Flatbed, 10T, Hwy	Tractor to Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 2	Truck Flatbed, 10T, Hwy	Grader from and to Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 3	Truck Flatbed, 10T, Hwy	Loader from and to Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 5	Truck Flatbed, 10T, Hwy	Dozer, Scraper, and Grader from Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 6	Truck Flatbed, 10T, Hwy	Materials from Sacramento	289	62.9	0.6	111	0.4	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 6	Truck Flatbed 4 T Highway	Rebar from Sacramento	289	7.9	0.6	14	0.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 6	Truck Flatbed, 10T, Hwy	Roller from Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 6	Truck Flatbed, 10T, Hwy	Roller, Grader, and Scraper to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 6	Truck Flatbed, 10T, Hwy	Loader from and to Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 7	Highway Dump Truck 18 CY	Materials from Sacramento	149	96.3	0.6	170	1.1	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 7	Truck Flatbed, 10T, Hwy	Grader from Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 7	Truck Flatbed, 10T, Hwy	Two Cranes from and to Sacramento	2	2.3	0.6	4	2.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 8	Truck Flatbed 4 T Highway	Rebar from Sacramento	65	8.5	0.6	15	0.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 8	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	65	36.9	0.0	1107	17.0	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 8	Truck Flatbed, 10T, Hwy	Dozer, Grader, and Roller to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 8	Truck Flatbed, 10T, Hwy	Crane from and to Sacramento	2	1.1	0.6	2	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 9	Truck Flatbed, 10T, Hwy	Excavator and Loader from Sacramento	1	1.1	0.6	2	2.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 9	Truck Flatbed 4 T Highway	Rebar from Sacramento	18	0.6	0.6	1	0.1	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 9	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	18	1.1	0.0	34	1.9	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 9	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	18	100.3	0.6	177	9.8	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 10	Truck Flatbed, 10T, Hwy	Excavator and Two Cranes from Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 10	Truck Flatbed 4 T Highway	Rebar from Sacramento	81	31.7	0.6	56	0.7	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 10	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	81	92.4	0.6	163	2.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 10	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	81	43.3	0.0	1298	16.0	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 12	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	93	44.4	0.0	1332	14.3	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 12	Truck Flatbed 4 T Highway	Rebar from Sacramento	93	32.3	0.6	57	0.6	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 12	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	93	92.4	0.6	163	1.8	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 12	Truck Flatbed, 10T, Hwy	Two Excavators, Loader, and Crane from Sacramento	1	2.3	0.6	4	4.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 14	Truck Flatbed 4 T Highway	Materials from Sacramento	1495	0.6	0.6	1	0.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 15	Truck Flatbed, 10T, Hwy	Materials from Sacramento	21	124.7	0.6	220	10.5	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 15	Truck Flatbed, 10T, Hwy	Five Cranes and Aerial Lift from Sacramento	1	3.4	0.6	6	6.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 17	Truck Flatbed 4 T Highway	Rebar from Sacramento	45	15.9	0.6	28	0.6	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 17	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	45	80.1	0.0	2402	53.4	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 18	Truck Flatbed, 10T, Hwy	Crane from and to Sacramento	1	0.6	0.6	1	1.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 19	Truck Flatbed 4 T Highway	Rebar from Sacramento	14	4.0	0.6	7	0.5	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 19	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	14	3.1	0.0	94	6.7	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 20	Truck Flatbed 4 T Highway	Rebar from Sacramento	41	6.2	0.6	11	0.3	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 20	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	41	6.4	0.0	192	4.7	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 21	Truck Flatbed 4 T Highway	Materials from Sacramento	93	212.5	0.6	375	4.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 21	Concrete Transit Mix Truck 12cy	Concrete from Lambert Batch Plant	93	26.2	0.0	846	9.1	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 21	Truck Flatbed 10 T Highway	Materials from Sacramento	93	17622.0	0.6	31451	338.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 23	Truck Flatbed 10 T Highway	Materials from Sacramento	105	3051.6	0.6	5385	51.3	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 23	Pickup, 1/2T, 2wd	Materials from Sacramento	105	1222.6	0.6	2158	20.5	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 23	Pickup, 3/4T, 4wd	Materials from Sacramento	105	1200.0	1.1	1125	0.0	South Delta Conveyance to/from Stockton	17	34	Hybrid Gasoline	
TCC-Central - 23	Concrete Transit Mix Truck 12cy	Pre-Cast Segment Grout from Lambert Batch Plant	105	12.0	0.0	360	3.4	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 24	Truck Flatbed 4 T Highway	Materials from Sacramento	1790	147.3	0.6	260	0.1	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 24	Truck Flatbed 4 T Highway	Materials from Sacramento	1790	254.4	0.6	449	0.3	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 24	Truck Flatbed, 10T, Hwy	Pre-Cast Segment Grout from Lambert Batch Plant	1790	434.7	0.0	13041	7.3	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC-Central - 24	Truck Flatbed, 10T, Hwy	Materials from Sacramento	1790	12204.3	0.6	21537	12.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 24	Utility Truck	Materials from Sacramento	1	31228.5	1.1	29277	29276.7	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC-Central - 25	Truck Flatbed, 10T, Hwy	Pre-Cast Segment Grout from Lambert Batch Plant	88	41.5	0.0	1245	14.1	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	

TCC Central - 26	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	1095	128563.7	0.6	226877	207.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC Central - 26	All Purpose and Utility Truck	Materials from Sacramento	1095	20062.4	1.1	18809	17.2	South Delta Conveyance to/from Stockton	17	34	Diesel	
TCC Central - 26	Truck, Flatbed, 10T, Hwy	Pre-Cast Segment GROUT from Lambert Batch Plant	1095	242.3	0.0	7270	6.6	Twin Cities Complex to/from Lambert Concrete Batch Plant	1	2	Diesel	
TCC Central - 26	Truck, Flatbed, 10T, Hwy	Dozer Tractor and Loader Grader to Sacramento	1	1.1	0.6	2	2.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC Central - 26	Truck, Flatbed, 10T, Hwy	Pre-Cast Segments from Sacramento	1095	6343.8	0.6	11195	10.2	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC Central - 27	All Purpose and Utility Truck	Materials from Sacramento	55	1008.0	1.1	0	0	South Delta Conveyance to/from Stockton	17	34	Diesel	
TCC Central - 27	Truck, Flatbed, 10T, Hwy	Three Cranes to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC Central - 28	All Purpose and Utility Truck	Materials from Sacramento	48	1381.4	1.1	1295	27.0	South Delta Conveyance to/from Stockton	17	34	Diesel	
TCC Central - 28	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	48	76.5	0.6	135	2.8	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC Central - 28	Truck, Flatbed, 10T, Hwy	Two Aerial Lifts and Crane to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC Central - 29	Truck, Flatbed, 10T, Hwy	Scraper, Four Tractors, Grader, Roller, Scraper, Loader, and Excavator to/from Sacramento	2	5.7	0.6	10	5.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC Central - 29	Truck, Flatbed, 10T, Hwy	Cranes, Two Excavators, to Sacramento	1	1.7	0.6	3	3.0	Twin Cities Complex to/from Sacramento	17	34	Diesel	
TCC Central - 29	Truck Flatbed 4 T Highway	Materials from Sacramento	135	100.9	0.6	178	1.3	Twin Cities Complex to/from Sacramento	17	34	Diesel	
Vehicle Use on Unseaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site												
TCC Central - 1	Articulated Rear Dump 22 CY/CAT 730	Dumper to move fill on-site	611	1093.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	Miles On-Site		3466	Diesel or Hybrid
TCC Central - 2	Cat 30mpg w/Cat 770, 511HP	Dumpers	29	116.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	582		Diesel	
TCC Central - 3	Truck, End Dump, 10-13cy, Hwy	Dumpers	34	174.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	873		Diesel	
TCC Central - 7	Truck, End Dump, 10-13cy, Hwy	Dumpers	149	1610.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	8052		Diesel	
TCC Central - 7	Truck, End Dump, 10-13cy, Hwy	Dumpers for Filled from Twin Cities Complex Borrow	149	4918.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	24590		Diesel	
TCC Central - 10	CAT 730 Rear Dump	Dumper	81	554	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2770		Diesel or Hybrid	
TCC Central - 10	Articulated Rear Dump 22 CY/CAT 730	Dumper to move fill on-site	81	485.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2430		Diesel or Hybrid	
TCC Central - 11	CAT 730 Rear Dump	Dumper	15	148	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	742		Diesel or Hybrid	
TCC Central - 12	CAT 730 Rear Dump	Dumper	93	533.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2770		Diesel or Hybrid	
TCC Central - 12	Articulated Rear Dump 22 CY/CAT 730	Dumper	93	485.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2430		Diesel or Hybrid	
TCC Central - 29	CAT 725 Tractor, 320hp	Dumper	135	692.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3465		Diesel	
TCC Central - 29	Truck, End Dump, 10-13cy, Hwy	Dumper	135	8780.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	43900		Diesel	
TCC Central - 29	CAT 740-40T, Articulated End dump	Dumper	135	700.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0		Diesel or Hybrid	

**Employees Required to Twin Cities Complex - Central Tunnel Shaft
Options 8A, 8B**

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
TCC-Central - 1	Carpenter Apprentice	465.9	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Carpenter Foreman	465.9	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Carpenter Journeyman	931.9	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Electrical Foreman	233.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Electrician Journeyman	931.9	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Iron Worker Journeyman Rebar/Struct	931.9	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Laborer G2 General	931.9	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	OPERATING ENGINEER FOREMAN	91.1	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Operator G2 Excavator 3.5 to 7.0 cy	182.2	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Operator G3a Cranes 45 t and under	11666.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Operator G4 Dozer & Push Cat	364.4	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Teamster G1 Hwy ED<6cy, Flatbed	28000.2	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Teamster G3 Boom Truck	233.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 1	Teamster G3 ED 8-24cy, Water>7mgal	1093.3	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-1		46522.6				
TCC-Central - 2	Laborer G2 General	27.9	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 2	Operator G5 Compactor w-blade	232.8	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 2	Operator G4 Dozer & Push Cat	232.8	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 2	OPERATING ENGINEER FOREMAN	232.8	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 2	Operator G2 Finish Blade	116.4	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 2	Teamster G3 ED 8-24cy, Water>7mgal	116.4	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-2		959.1				
TCC-Central - 3	Laborer G1 Pipe layers	349.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 3	Laborer G1 Power Tamper	174.6	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 3	Operator G3 BH-Loader>3/4cy	87.3	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 3	Teamster G2 Hwy ED 6-8cy, Water<7mgal	174.6	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-3		785.8				
TCC-Central - 4	Accountant	17024.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Concrete Superintendent	17024.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Cost Engineer	12768.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Electrical Superintendent	17024.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Environmental Manager	17024.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Equipment Superintendent	16416.2	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Field Engineer	32830.9	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	General Superintendent	17024.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Geotechnical Manager	16416.2	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Office Administrator	17024.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Office Manager	17024.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Payroll Clerk	17024.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Project Engineer	17024.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Project Manager	17024.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Purchasing Agent	17024.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	QC Manager	16416.2	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	QC Technician	17024.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Runner	17024.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Safety Engineer	8512.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Safety Manager	17024.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Schedule Engineer	32830.9	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Shift Engineers	8512.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Survey Party Chief	17024.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Survey Rod Man	16416.2	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Tunnel Superintendent	32830.9	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 4	Tunnel Walkers	16416.2	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-4		465725.9				
TCC-Central - 5	General Foreman	495.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 5	Dozer Operator	990.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 5	Grader Operator	990.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 5	Operator G4 Grade Check	495.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 5	Scraper Operator	1980.0	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-5		4950.0				
TCC-Central - 6	Bullgang Foreman	400.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Bullgang Laborer	800.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Carpenter	304.9	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Carpenter Foreman	76.2	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Compactor Operator	480.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Dozer Operator	2697.9	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Flagger	480.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Flat Truck Driver	400.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	General Foreman	1468.9	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	General Laborer	1009.4	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Grade Setter / Checker	240.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Grader Operator	2457.9	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Grader 16H - 16' Blade	2457.9	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Hyd Crane Operator	1253.2	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Iron Worker	3770.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Iron Worker Foreman	377.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Loader Operator	240.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Mechanic/Welder	400.0	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Operator G4 Grade Check	1228.9	10		Sacramento to/from Twin Cities Complex	17
TCC-Central - 6	Scraper Operator	4915.8	10		Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-6		25458.0				

TCC-Central - 7	Grade Setter / Checker	1610.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 7	Compactor Operator	1610.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 7	Dozer Operator	1610.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 7	Grader Operator	1610.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 7	Truck Driver	1610.3	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-7		8051.5			
TCC-Central - 8	Carpenter	1120.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 8	Carpenter Foreman	140.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 8	General Laborer	280.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 8	Truck Driver	560.0	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-8		2100.0			
TCC-Central - 9	Carpenter	654.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	Carpenter Foreman	163.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	Excavator Operator	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	General Laborer	15.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	Lead Miner	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	Loader Operator	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	Miner	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	Shifter	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 9	Truck Driver	146.3	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-9		1025.5			
TCC-Central - 10	Carpenter	81.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Carpenter Foreman	13.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Crane Oiler	971.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Excavator Operator	363.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	General Foreman	1335.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	General Laborer	6493.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Hyd Crane Operator	971.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Iron Worker	4929.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Iron Worker Foreman	989.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Lead Miner	485.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Loader Operator	849.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Mechanic Welder	971.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Miner	3887.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Shaft Crane Operator	971.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Shifter	1457.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 10	Truck Driver	553.9	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-10		25326.8			
TCC-Central - 11	Carpenter	516.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 11	Carpenter Foreman	129.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 11	Excavator Operator	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 11	Lead Miner	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 11	Loader Operator	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 11	Miner	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 11	Shifter	9.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 11	Truck Driver	146.3	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-11		837.9			
TCC-Central - 12	Carpenter	219.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Carpenter Foreman	61.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Crane Oiler	971.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Excavator Operator	363.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	General Foreman	1335.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	General Laborer	6509.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Hyd Crane Operator	971.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Iron Worker	4929.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Iron Worker Foreman	989.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Lead Miner	485.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Loader Operator	849.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Mechanic / Welder	971.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Miner	3887.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Shaft Crane Operator	971.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Shifter	1457.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 12	Truck Driver	553.9	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-12		25528.1			
TCC-Central - 13	Shaft Crane Operator	658.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 13	Toplander	658.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 13	Crane Oiler	658.1	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-13		1974.3			
TCC-Central - 14	Accountant	11755.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Concrete Superintendent	11755.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Cost Engineer	11755.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Electrical Superintendent	11335.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Environmental Manager	11335.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Equipment Superintendent	11335.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Field Engineer	8816.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	General Superintendent	11755.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Geotechnical Manager	11335.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Office Administrator	11755.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Office Manager	11755.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Project Engineer	11755.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Project Manager	11755.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	QC Manager	11755.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	QC Technician	5877.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Runner	11755.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Safety Engineer	22671.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Safety Manager	11755.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Schedule Engineer	5877.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Shift Engineers	22671.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Survey Party Chief	11755.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Survey Rod Man	11755.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 14	Tunnel Superintendent	11335.6	10	Sacramento to/from Twin Cities Complex	17

TCC-Central - 14	Tunnel Walkers	22671.2	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-14		298080.6			
TCC-Central - 15	Bulfgang Foreman	549.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Bulfgang Laborer	1696.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Crane Oiler	149.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Electrician	149.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Flat Truck Driver	400.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Heavy Duty Mechanic Welder	149.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Hyd Crane Operator	949.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Master Mechanic	448.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Mechanic / Welder	549.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 15	Shaft Crane Operator	149.3	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-15		5189.1			
TCC-Central - 16	Shaft Crane Operator	658.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 16	Toplander	658.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 16	Crane Oiler	658.1	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-16		1974.3			
TCC-Central - 17	Bottomlander	445.7	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Crane Oiler	67.9	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Hyd Crane Operator	533.1	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Iron Worker	5333.6	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Iron Worker Foreman	666.7	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Lead Miner	95.0	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Miner	2093.4	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Shaft Crane Operator	513.7	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Shifter	761.7	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 17	Toplander	11258.0	24	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-17		21768.8			
TCC-Central - 18	Hyd Crane Operator	191.3	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 18	Lead Miner	191.3	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 18	Miner	1530.4	24	Sacramento to/from Twin Cities Complex	17
TCC-Central - 18	Shifter	191.3	24	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-18		54928.9			
TCC-Central - 19	Crane Oiler	108.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Electrician	40.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Iron Worker	543.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Iron Worker Foreman	67.9	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Lead Miner	40.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Miner	461.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Mechanic Welder	40.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Shaft Crane Operator	108.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Shifter	108.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 19	Toplander	108.7	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-19		1629.9			
TCC-Central - 20	Bottomlander	520.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 20	Crane Oiler	520.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 20	Iron Worker	4166.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 20	Iron Worker Foreman	520.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 20	Shaft Crane Operator	520.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 20	Toplander	520.8	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-20		6770.1			
TCC-Central - 21	Bottomlander	796.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Concrete Pump Operator	422.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Crane Oiler	1264.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Electrician	417.4	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Lead Miner	1150.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Master Mechanic	114.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Mechanic Welder	728.1	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Miner	6188.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Shaft Crane Operator	1264.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Shifter	1150.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Toplander	1264.8	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 21	Truck Driver	17822.0	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-21		32583.4			
TCC-Central - 22	Bulfgang Foreman	149.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 22	Bulfgang Laborer	896.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 22	Mechanic / Welder	149.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 22	Master Mechanic	448.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 22	Shaft Crane Operator	149.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 22	Crane Oiler	149.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 22	Electrician	149.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 22	Hyd Crane Operator	149.3	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-22		2239.8			
TCC-Central - 23	Bottomlander	1073.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Bulfgang Foreman	3051.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Bulfgang Laborer	6103.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Carpenter Apprentice	22.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Carpenter Foreman	22.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Carpenter Journeyman	45.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Conveyor Belt Man	933.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Crane Oiler	1073.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Electrical Foreman	11.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Electrician	3406.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Electrician Journeyman	45.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Flat Truck Driver	3051.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Hyd Crane Operator	6943.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Iron Worker Journeyman Rebar/Struct	45.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Laborer G2 General	45.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Lead Miner	2380.0	10	Sacramento to/from Twin Cities Complex	17

TCC-Central - 23	Mechanic / Welder	6458.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Miner	15960.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Operator G3a Cranes 45 t and under	22.6	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Segment Carrier Operator	2240.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Shaft Crane Operator	1073.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Shifter	2380.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	ST2G Mucker Operator	373.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	TBM Operator	2613.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Teamster G3 Boom Truck	11.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 23	Toplander	1073.3	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-23		60459.1			
TCC-Central - 24	Bottomlander	54471.2	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Bulfgang Foreman	43432.8	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Bulfgang Laborer	149322.6	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Conveyor Belt Man	33408.2	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Crane Oiler	54471.2	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Dozer Operator	30183.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Electrician	63918.8	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Fanline Carrier Operator	30510.8	20		
TCC-Central - 24	Flat Truck Driver	12204.3	20		
TCC-Central - 24	Hyd Crane Operator	24408.5	20		
TCC-Central - 24	Lead Miner	33408.2	20		
TCC-Central - 24	Loader Operator	30138.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Man Transport Truck Operator	62457.0	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Master Mechanic	15255.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Mechanic / Welder	91378.4	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Miner	254770.8	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Operating Engineer	30183.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Operator G2 Plant Operator	30183.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Segment Carrier Operator	237369.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Shaft Crane Operator	54471.2	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Shifter	33408.2	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	TBM Operator	66816.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Toplander	54471.2	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 24	Utility Truck Operator	31228.5	20	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-24		1521871.0			
TCC-Central - 25	Bottomlander	1073.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Conveyor Belt Man	933.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Crane Oiler	1073.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Electrician	3406.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Hyd Crane Operator	840.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Lead Miner	2380.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Mechanic / Welder	3406.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Miner	15960.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Segment Carrier Operator	2240.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Shaft Crane Operator	1073.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Shifter	2380.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	ST2G Mucker Operator	373.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	TBM Operator	2613.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 25	Toplander	1073.3	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-25		38826.2			
TCC-Central - 26	Bottomlander	34966.4	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Bulfgang Foreman	29898.5	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Bulfgang Laborer	99921.8	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Conveyor Belt Man	19984.5	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Crane Oiler	34966.4	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Dozer Operator	19301.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Fanline Carrier Operator	19607.5	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Flat Truck Driver	9836.2	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Hyd Crane Operator	19672.4	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Lead Miner	19984.5	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Loader Operator	19301.5	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Master Mechanic	9837.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Mechanic / Welder	59332.7	20		
TCC-Central - 26	Miner	154724.3	20		
TCC-Central - 26	Operating Engineer	19301.3	20		
TCC-Central - 26	Operator G2 Plant Operator	19301.3	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Segment Carrier Operator	150408.5	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Shaft Crane Operator	34966.4	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Shifter	19984.5	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	TBM Operator	39969.1	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Toplander	34966.4	20	Sacramento to/from Twin Cities Complex	17
TCC-Central - 26	Utility Truck Operator	20062.4	20	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-26		890295.2			
TCC-Central - 27	Bottomlander	1311.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Bulfgang Foreman	93.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Bulfgang Laborer	560.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Crane Oiler	760.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Electrician	2072.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Heavy Duty Mechanic Welder	93.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Forklift Operator	644.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Hyd Crane Operator	760.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Lead Miner	1311.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Master Mechanic	280.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Mechanic / Welder	2072.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Miner	6253.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Shaft Crane Operator	1404.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Shifter	1311.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Toplander	1563.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 27	Utility Truck Operator	504.0	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-27		20995.2			
TCC-Central - 28	Bottomlander	2498.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Bulfgang Foreman	269.9	10	Sacramento to/from Twin Cities Complex	17

TCC-Central - 28	Bulfgang Laborer	713.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Crane Oiler	760.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Electrician	2258.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Flat Truck Driver	76.5	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Forklift Operator	830.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Heavy Duty Mechanic Welder	93.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Hyd Crane Operator	913.7	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Lead Miner	1498.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Master Mechanic	280.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Mechanic / Welder	2335.2	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Miner	7373.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Shaft Crane Operator	1591.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Shifter	1498.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Toplander	1591.3	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 28	Utility Truck Operator	690.7	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-28		25272.3			
TCC-Central - 29	Laborer G2 Concrete Laborer	1050.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Laborer G2 General	270.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Laborer G3 Dumpman	300.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Laborer G3 Flagman	760.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	OPERATING ENGINEER FOREMAN	1035.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G2 Excavator 3.5 to 7.0 cy	2450.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G2 Finish Blade	700.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G3 Loader >4cy	800.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G4 Dozer & Push Cat	3710.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G4 Scraper	2150.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G5 Compactor w-blade	500.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Operator G6 Tractor	810.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Teamster G2 Hwy ED 6-8cy, Water<7mgal	9525.0	10	Sacramento to/from Twin Cities Complex	17
TCC-Central - 29	Teamster G4 ED 25-65 Cy	700.0	10	Sacramento to/from Twin Cities Complex	17
TOTAL TCC-Central-29		24760.0			

Marine Inventory for Twin Cities Complex - Central Tunnel Shaft
Options 8A, 8B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Twin Cities Complex - Central Tunnel Shaft
Options 8A, 8B

Code	# day	Locomotive Type	From Depot Site	Delivery Depot	Rail Cars	Rail Cars/Day	Main Railroad	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
TCC-Central - 23	105	Pre Cast Segment	Sacramento	Twin Cities Complex Sidetrack	312	2.97	UPRR						
TCC-Central - 24	1790	Pre Cast Segment	Sacramento	Twin Cities Complex Sidetrack	6177	3.45	UPRR						
TCC-Central - 25	88	Pre Cast Segment	Sacramento	Twin Cities Complex Sidetrack	167	1.90	UPRR						
TCC-Central - 26	1095	Pre Cast Segment	Sacramento	Twin Cities Complex Sidetrack	3363	3.07	UPRR						

Rail Activity for RTM to Southern Complex presented in Southern Complex workbooks

**Helicopter Inventory for Twin Cities Complex - Central Tunnel Shaft
Options 8A, 8B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Twin Cities Complex - Central Tunnel Shaft
Options 8A, 8B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy) (not Concrete)	Fill (cy/day) (not Concrete)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
TCC-Central - 1	507	611	0.8								
TCC-Central - 5		44		249472	5670						
TCC-Central - 6		289		619386	2143						
TCC-Central - 7		149				70863.8	476				
TCC-Central - 9		18		607.4	34						
TCC-Central - 10		81		12155.5	150						
TCC-Central - 11		15		607.4	40						
TCC-Central - 12		93		12155.5	131						
TCC-Central - 13		65		72384.8	1114						
TCC-Central - 16		65		72384.8	1114						
TCC-Central - 29	395	135	2.9								

**Demolition Assumptions for Twin Cities Complex - Central Tunnel Shaft
Options 8A, 8B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for New Hope Tract - Eastern Access Road

Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX G - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	NH-E Access -1	3/17/2026	3/18/2026	2	2	10
Embankment	NH-E Access -2	3/19/2026	3/20/2026	2	2	10
Culvert Pipe	NH-E Access -3	3/23/2026	3/23/2026	1	1	10
Subdrain System	NH-E Access -4	3/24/2026	3/25/2026	2	2	10
Road Base	NH-E Access -5	3/26/2026	3/27/2026	2	2	10
12-month - Intermediate Maintenance	NH-E Access -6	4/4/2028	4/13/2028	8	5	10
12-month - Final Maintenance	NH-E Access -7	4/4/2029	4/13/2029	8	5	10

Acres

0.84

Construction Schedule for New Hope - Eastern Tunnel Shaft						
Options 8A, 8B						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Clear and Grub	NH-Eastern - 1	4/4/2028	4/5/2028	1	1	10
Ground Improvement	NH-Eastern - 2	4/6/2028	6/14/2028	50	5	10
Raise Shaft Pad	NH-Eastern - 3	6/15/2028	10/18/2028	90	5	10
Excavate, Set Strips, & Place Guide Wall	NH-Eastern - 4	10/19/2028	11/3/2028	12	5	10
Place Guide Walls Concrete	NH-Eastern - 5	11/6/2028	11/7/2028	1	1	10
Excavate Slurry Wall & Place Concrete & Rebar	NH-Eastern - 6	11/8/2028	12/15/2028	38	7	24
Slurry Wall including Strip Forms and Place Rebar & Top Beam	NH-Eastern - 7	12/18/2028	1/23/2029	37	7	24
Excavate Shaft	NH-Eastern - 8	1/30/2029	3/13/2029	43	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	NH-Eastern - 9	3/14/2029	3/27/2029	13	7	24
Dewater Shaft	NH-Eastern - 10	3/28/2029	4/3/2029	7	7	24
Place TBM Cradle Rebar and Cradle Pour	NH-Eastern - 11	4/4/2029	4/11/2029	6	5	10
Breakout Slurry Wall for TBM	NH-Eastern - 12	4/12/2029	5/8/2029	19	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	NH-Eastern - 13	4/12/2029	8/1/2029	80	5	10
Place Shaft Cover	NH-Eastern - 14	8/1/2029	8/7/2029	5	5	10
Total Site Acres	10.7					

Offroad Equipment (Fossil Fuel) Inventory for New Hope - Eastern Tunnel Shaft
Options 8A, 8B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
NH-Eastern - 1	CAT D8 Dozer	Crawler Tractor	15.52	1	16	Diesel Tier 4 or Hybrid Dese	179	0.43		
NH-Eastern - 1	CAT Grader 16H - 16' Blade	Grader	15.52	1	16	Diesel	285	0.41		
NH-Eastern - 1	623G Scraper Elevate 21 CY	Scaper	31.04	1	31	Diesel	359	0.48		
NH-Eastern - 2	Air Compressor 375 CFM	Air Compressor	350	50	7	Diesel Tier 4	122	0.48		
NH-Eastern - 2	Grove RT Crane 30T	Crane	350	50	7	Diesel	160	0.29		
NH-Eastern - 2	DMM Deep Soil Mixer	Bore Drill Rig	350	50	7	Diesel	522	0.5		
NH-Eastern - 2	DMM Grout Mix Plant	Other Industrial Equipmen	250	50	7	Diesel	500	0.34		
NH-Eastern - 2	Case 590 SupN Loader	Rubber Tired Loaders	350	50	7	Diesel	110	0.36		
NH-Eastern - 3	CAT CB-634D Vibratory 84"	Rollers	687.4	90	8	Diesel	145	0.38		
NH-Eastern - 3	CAT Grader 16H	Graders	687.4	90	8	Diesel	285	0.41		
NH-Eastern - 3	CAT D8 Dozer	Crawler Tractor	687.4	90	8	Diesel	328	0.43		
NH-Eastern - 4	CAT Hyd Excavator 1CY	Excavator	5.4	12	0	Diesel	138	0.38		
NH-Eastern - 4	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	5.4	12	0	Diesel or Hybrid	130	0.36		
NH-Eastern - 6	1600 CFM Compressor Diesel	Air Compressor	194.4	38	5	Diesel Tier 4	540	0.48		
NH-Eastern - 6	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	194.4	38	5	Diesel or Hybrid	130	0.36		
NH-Eastern - 6	Hydraulic 55 Ton Crane	Crane	416.7	38	11	Diesel	350	0.29		
NH-Eastern - 6	Manitowoc 777 200 Ton Crane	Crane	416.7	38	11	Diesel	760	0.29		
NH-Eastern - 6	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	194.4	38	5	Diesel	8	0.56		
		Pumps	194.4	38	5	Diesel	500	0.74		
NH-Eastern - 7	250 CFM Compressor Diesel	Air Compressor	3	37	0.1	Diesel Tier 3	75	0.48		
NH-Eastern - 7	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	212	37	6	Diesel or Hybrid	130	0.36		
NH-Eastern - 7	CAT Hyd Excavator 1CY	Excavator	212	37	6	Diesel	138	0.38		
NH-Eastern - 7	Hydraulic Excavator to 3.5 tons = Kobelco SK48!	Excavator	212	37	6	Diesel	345	0.38		
NH-Eastern - 8	Manitowoc 777 200 Ton Crane	Crane	207.9	43	5	Diesel	760	0.29		
NH-Eastern - 9	Hydraulic 25 Ton Crane	Crane	68.8	13	5	Diesel	100	0.29		
NH-Eastern - 9	Hydraulic 40 Ton Crane	Crane	32.4	13	2	Diesel	300	0.29		
NH-Eastern - 9	Manitowoc 777 200 Ton Crane	Crane	99.9	13	8	Diesel	760	0.29		
NH-Eastern - 10	Hydraulic 15 Ton Crane	Crane	90	7	13	Diesel	100	0.29		
NH-Eastern - 11	250 CFM Compressor Diesel	Air Compressor	7.4	6	1	Diesel Tier 3	75	0.48		
NH-Eastern - 11	Manitowoc 777 200 Ton Crane	Crane	31.7	6	5	Diesel	760	0.29		
NH-Eastern - 12	250 CFM Compressor Diesel	Air Compressor	106.8	19	6	Diesel Tier 3	75	0.48		
NH-Eastern - 12	Manitowoc 777 200 Ton Crane	Crane	106.8	19	6	Diesel	760	0.29		
NH-Eastern - 13	250 CFM Compressor Diesel	Air Compressor	630	80	8	Diesel Tier 3	75	0.48		
NH-Eastern - 13	Hydraulic 9 Ton Crane	Crane	283.3	80	4	Diesel	85	0.29		
NH-Eastern - 13	Manitowoc 777 200 Ton Crane	Crane	91.8	80	1	Diesel	760	0.29		
NH-Eastern - 13	Manitowoc 999-275 Ton Crane	Crane	115.5	80	1	Diesel	900	0.29		
NH-Eastern - 14	Hydraulic 9 Ton Crane	Crane	30.3	#REF!	#REF!	Diesel	85	0.29		
NH-Eastern - 14	Hydraulic 40 Ton Crane	Crane	30.3	#REF!	#REF!	Diesel	300	0.29		
NH-Eastern - 14	CAT Forklift 5,500 LB	Aerial Lift	30.3	#REF!	#REF!	Diesel	63	0.31		
NH-Central - 14	250 CFM Compressor Diesel	Air Compressor	136.5	#REF!	#REF!	Diesel Tier 3	75	0.48		
NH-Central - 14	Manitowoc 777 200 Ton Crane	Crane	39.4	#REF!	#REF!	Diesel	760	0.29		
NH-Central - 14	Manitowoc 999-275 Ton Crane	Crane	97.2	#REF!	#REF!	Diesel	900	0.29		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

**Offroad Equipment (Electric) Inventory for New Hope - Eastern Tunnel Shaft
Options 8A, 8B**

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
NH-Eastern - 2	Water Pump 4" Electric	830	50	1	17
NH-Eastern - 13	Axial Fan 114,000 CFM	54	80	50	34
NH-Eastern - 13	400A, Electric Welder	184.3	80	15	34.556
NH-Eastern - 2	90 kw Generator	830	50		
NH-Eastern - 2	Water Pump 4"	830	50		
NH-Eastern - 6	Slurry Wall Techniwell	194.4	38		
NH-Eastern - 10	150 kW Generator	90	7		
NH-Eastern - 10	Dewater Pump 6"	360	7		
NH-Eastern - 11	Conc Pump 100 cy/hr	7.4	6		
NH-Eastern-13	Conc Pump 100 cy/hr	289	80		
NH-Eastern-14	Conc Pump 100 cy/hr	88.1	5		

Vehicle Inventory for New Hope - Eastern Tunnel Shaft
Options BA, BB

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/Trip	# of Vehicles Trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
NH-Eastern - 1	Truck, Flatbed, 10T, Hwy	Grader and Scraper to and from Sacramento	2	2.5	0.6	4	2.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 1	Truck, Flatbed, 10T, Hwy	Crawler Tractor from Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 2	Pickup 1/2T 2 WD	Materials from Sacramento	50	830.0	0.6	1311	26	New Hope Shaft to/from Sacramento	19	38	Hybrid Gasoline	
NH-Eastern - 2	Truck Flatbed 4 T Highway	Materials from Sacramento	50	830.0	0.6	1311	26	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 2	Mechanic Truck	Materials from Sacramento	50	830.0	0.6	1311	26	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 2	Truck, Flatbed, 10T, Hwy	Crane, Trencher, & Other Equipment to and from Sacramento	2	3.8	0.6	6	3.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 2	Concrete Transit Mix Truck* 12cy	Concrete for Ground Improvement from Sacramento	50	110.9	0.5	208	4	New Hope Shaft to/from Sacramento	16	32	Diesel	
NH-Eastern - 3	Highway Dump Truck 18 CY	Materials from Sacramento	90	687.4	0.6	1085	12	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 3	Truck* End Dump* 16-20cy* Hwy	Soil Material in Covered Trucks from Twin Cities Complex	90	1009.0	0.5	2018	22	New Hope Shaft to/from Twin Cities Complex	15	30	Diesel	
NH-Eastern - 3	Truck, Flatbed, 10T, Hwy	Grader and Roller to and from Sacramento	2	2.5	0.6	4	2.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 3	Truck, Flatbed, 10T, Hwy	Crawler Tractor to Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 3	Truck, Flatbed, 10T, Hwy	Rebar from Sacramento	90	0.6	0.6	1	0.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 4	Truck, Flatbed, 10T, Hwy	Excavator to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 4	Truck, Flatbed, 10T, Hwy	Loader from Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 4	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	12	38.0	0.6	60	5.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 5	Concrete Transit Mix Truck* 12cy	Concrete from Lambert Road Concrete Batch Plant	1	10.5	0.5	21	21	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Eastern - 6	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	38	111.5	0.6	176	5	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 6	Truck Flatbed 4 T Highway	Rebar from Sacramento	38	16.5	0.6	26	1	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 6	Concrete Transit Mix Truck* 12cy	Concrete from Lambert Road Concrete Batch Plant	38	256.5	0.5	513	14	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane and Other Equipment to and from Sacramento	2	2.5	0.6	4	2.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane from Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 7	Truck, Flatbed, 10T, Hwy	Loader to Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 7	Truck Flatbed 4 T Highway	Rebar from Sacramento	37	0.6	0.6	1	0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 7	Concrete Transit Mix Truck* 12cy	Concrete from Lambert Road Concrete Batch Plant	37	5.0	0.5	10	0	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Eastern - 9	Truck Flatbed 4 T Highway	Rebar from Sacramento	13	4.4	0.6	7	1	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 9	Concrete Transit Mix Truck* 12cy	Concrete from Lambert Road Concrete Batch Plant	13	218.0	0.5	436	34	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Eastern - 9	Truck, Flatbed, 10T, Hwy	Cranes to and from Sacramento	2	2.5	0.6	4	2.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 10	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 11	Truck Flatbed 4 T Highway	Rebar from Sacramento	6	0.6	0.6	1	0.2	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 11	Concrete Transit Mix Truck* 12cy	Concrete from Lambert Road Concrete Batch Plant	6	16.0	0.5	32	5	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Eastern - 12	Truck, Water, 4 kgal, Hwy	Recycled Water from Lodi	19	1.1	0.6	2	0.1	New Hope Shaft to/from Lodi	17	34	Diesel	
NH-Eastern - 13	Truck Flatbed 4 T Highway	Rebar from Sacramento	80	1.3	0.6	2	0.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 13	Concrete Transit Mix Truck* 12cy	Concrete from Lambert Road Concrete Batch Plant	80	164.5	0.5	329	4	New Hope Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
NH-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to Sacramento	1	0.6	0.6	1	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 14	Highway Flatbed 10 Ton	Materials from Sacramento	5	30.3	0.6	48	10	New Hope Shaft to/from Sacramento	19	38	Diesel	
NH-Eastern - 14	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	1.3	0.6	2	1.0	New Hope Shaft to/from Sacramento	19	38	Diesel	
Vehicle Use on Unpaved/Dirty Surface (no access roads at park and ride lots) --- on the Construction Site										Miles On-Site		
NH-Eastern - 4	CAT 730 Rear Dump	Dumper	12	16.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		83	Diesel or Hybrid	
NH-Eastern - 6	CAT 730 Rear Dump	Dumper	38	221.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1108	Diesel or Hybrid	
NH-Eastern - 6	Articulated Rear Dumpo 22 CY/CAT 730	Dumper	38	221.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1108	Diesel or Hybrid	
NH-Eastern - 6	Concrete Pump Truck	Off Highway Truck	38	389.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1947	Diesel	

Employees Required to New Hope - Eastern Tunnel Shaft
Options 8A, 8B

Code	Employee Type	Hours	# WorkDay		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
NH-Eastern - 1	Dozer Operator	15.5	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 1	General Foreman	7.8	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 1	Grader Operator	15.5	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 1	Operator G4 Grade Check	7.8	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 1	Grader 16H - 16' Blade	15.52	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 1	Scraper Operator	31	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-1						
NH-Eastern - 2	Laborer G2 General	2490	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 2	Operator G3a Crane	830	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 2	Operator G3 BH Loader	830	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 2	Operating Engineer	830	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 2	Operator G4 Grade Check	830	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 2	Operator G4 Heavy Duty Mechanic	830	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 2	Operator G2 Plant Operator	1660	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 2	Teamster G1 Hwy	830	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 2	Teamster G2 Hwy	830	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-2						
NH-Eastern - 3	Compactor Operator	687.4	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 3	Dozer Operator	687.4	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 3	Grade Setter / Checker	687.4	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 3	Grader Operator	687.4	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 3	Truck Driver	687.4	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-3						
NH-Eastern - 4	Carpenter	383.9	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 4	Carpenter Foreman	96	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 4	Excavator Operator	5.4	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 4	Lead Miner	5.4	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 4	Loader Operator	5.4	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 4	Miner	5.4	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 4	Shifter	5.4	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 4	Truck Driver	16.1	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-4						
NH-Eastern - 5	General Laborer	9.8	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 5	Carpenter	19.6	10		Sacramento to/from New Hope Shaft	19
NH-Eastern - 5	Carpenter Foreman	4.9	10		Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-5						
NH-Eastern - 6	Crane Oiler	416.7	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	General Foreman	388.8	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	General Laborer	2138.4	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	Hyd Crane Operator	416.7	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	Iron Worker	2223	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	Iron Worker Foreman	444.6	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	Lead Miner	194.7	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	Loader Operator	194.4	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	Mechanic Welder	388.8	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	Miner	1557.5	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	Shaft Crane Operator	416.7	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	Shifter	639.3	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 6	Truck Driver	194.4	24		Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-6						
NH-Eastern - 7	Carpenter	29.9	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 7	Carpenter Foreman	7.5	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 7	Excavator Operator	212	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 7	General Foreman	212	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 7	General Laborer	662.2	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 7	Iron Worker	45.7	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 7	Iron Worker Foreman	11.4	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 7	Loader Operator	212	24		Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-7						
NH-Eastern - 8	Shaft Crane Operator	207.9	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 8	Toplander	207.9	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 8	Crane Oiler	207.9	24		Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-8						
NH-Eastern - 9	Bottomlander	99.9	24		Sacramento to/from New Hope Shaft	19
NH-Eastern - 9	Hyd Crane Operator	101.2	24		Sacramento to/from New Hope Shaft	19

NH-Eastern - 9	Iron Worker	1058.4	24	Sacramento to/from New Hope Shaft	19
NH-Eastern - 9	Iron Worker Foreman	132.3	24	Sacramento to/from New Hope Shaft	19
NH-Eastern - 9	Lead Miner	17.2	24	Sacramento to/from New Hope Shaft	19
NH-Eastern - 9	Miner	402.3	24	Sacramento to/from New Hope Shaft	19
NH-Eastern - 9	Shifter	149.5	24	Sacramento to/from New Hope Shaft	19
NH-Eastern - 9	Toplander	229.5	24	Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-9					
NH-Eastern - 10	Hyd Crane Operator	90	24	Sacramento to/from New Hope Shaft	19
NH-Eastern - 10	Lead Miner	90	24	Sacramento to/from New Hope Shaft	19
NH-Eastern - 10	Miner	720	24	Sacramento to/from New Hope Shaft	19
NH-Eastern - 10	Shifter	90	24	Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-10					
NH-Eastern - 11	Crane Oiler	31.7	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 11	Electrician	7.4	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 11	Iron Worker	194.4	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 11	Iron Worker Foreman	24.3	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 11	Lead Miner	7.4	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 11	Mechanic Welder	7.4	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 11	Miner	107.6	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 11	Shaft Crane Operator	31.7	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 11	Shifter	31.7	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 11	Toplander	31.7	10	Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-11					
NH-Eastern - 12	Bottomlander	106.8	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 12	Crane Oiler	106.8	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 12	Iron Worker	854.4	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 12	Iron Worker Foreman	106.8	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 12	Shaft Crane Operator	106.8	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 12	Toplander	106.8	10	Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-12					
NH-Eastern - 13	Bottomlander	92	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 13	Concrete Pump Operator	57.9	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 13	Crane Oiler	160.5	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 13	Electrician	238.4	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 13	Hyd Crane Operator	238.3	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 13	Lead Miner	630	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 13	Mechanic / Welder	756.4	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 13	Miner	4212.7	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 13	Shaft Crane Operator	207	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 13	Shifter	630	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 13	Toplander	207	10	Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-13					
NH-Eastern - 14	Bullgang Foreman	30.3	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 14	Bullgang Laborer	60.6	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 14	Mechanic / Welder	118.1	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 14	Hyd Crane Operator	60.6	10	Sacramento to/from New Hope Shaft	19
NH-Eastern - 14	Flat Truck Driver	30.3	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Bottomlander	39.4	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Concrete Pump Operator	48.7	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Crane Oiler	97.2	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Lead Miner	136.5	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Miner	118.1	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Shaft Crane Operator	118.1	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Shifter	118.1	10	Sacramento to/from New Hope Shaft	19
NH-Central - 14	Toplander	118.1	10	Sacramento to/from New Hope Shaft	19
TOTAL NH-Eastern-14					

Marine Inventory for New Hope - Eastern Tunnel Shaft
Options 8A, 8B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for New Hope - Eastern Tunnel Shaft
Options 8A, 8B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

Helicopter Inventory for New Hope - Eastern Tunnel Shaft
Options 8A, 8B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for New Hope - Eastern Tunnel Shaft
Options 8A, 8B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
NH-Eastern - 1	10.7	1	11	3910	3910						
NH-Eastern - 3		90				30255.6	336				
NH-Eastern - 5		1		352.8	353						
NH-Eastern - 6		38		4867.2	128						
NH-Eastern - 8		43		22878	532						

**Demolition Assumptions for New Hope - Eastern Tunnel Shaft
Options 8A, 8B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Canal Ranch Tract - Eastern Access Road

Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX G- ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	CR-E Access -1	4/15/2026	4/20/2026	4	4	10
Embankment	CR-E Access -2	4/21/2026	4/27/2026	5	5	10
Culvert Pipe	CR-E Access -3	4/28/2026	4/28/2026	1	1	10
Subdrain System	CR-E Access -4	4/29/2026	5/8/2026	8	5	10
Road Base	CR-E Access -5	5/11/2026	5/15/2026	5	5	10
12-month - Intermediate Maintenance	CR-E Access -6	4/4/2028	4/13/2028	8	5	10
12-month - Final Maintenance	CR-E Access -7	4/4/2029	4/13/2029	8	5	10

Acres

3.2

Construction Schedule for Canal Ranch - Eastern Tunnel Shaft						
Options 8A, 8B						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Clear and Grub	CR-Eastern - 1	10/19/2028	10/20/2028	2	2	10
Ground Improvement	CR-Eastern - 2	11/13/2028	12/29/2028	34	5	10
Raise Shaft Pad	CR-Eastern - 3	1/1/2029	7/27/2029	148	5	10
Excavate, Set Strips, & Place Guide Wall	CR-Eastern - 4	7/30/2029	8/14/2029	12	5	10
Place Guide Walls Concrete	CR-Eastern - 5	8/15/2029	8/16/2029	2	2	10
Excavate Slurry Wall & Place Concrete & Rebar	CR-Eastern - 6	8/17/2029	9/25/2029	40	7	24
Slurry Wall including Strip Forms and Place Rebar & Top Beam	CR-Eastern - 7	9/26/2029	11/7/2029	43	7	24
Excavate Shaft	CR-Eastern - 8	11/8/2029	12/17/2029	40	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	CR-Eastern - 9	12/18/2029	12/31/2029	14	7	24
Dewater Shaft	CR-Eastern - 10	1/1/2030	1/7/2030	7	7	24
Place TBM Cradle Rebar and Cradle Pour	CR-Eastern - 11	1/8/2030	1/15/2030	6	5	10
Breakout Slurry Wall for TBM	CR-Eastern - 12	1/16/2030	2/11/2030	19	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	CR-Eastern - 13	1/16/2030	4/29/2030	75	5	10
Place Shaft Cover	CR-Eastern - 14	4/29/2030	5/7/2030	7	5	10
Total Site Acres	10.6					

Offroad Equipment (Fossil Fuel) Inventory for Canal Ranch - Eastern Tunnel Shaft
Options 8A, 8B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
CR-Eastern - 1	CAT D8 Dozer	Crawler Tractor	16.92	2	8	Diesel Tier 4 or Hybrid Diesel	179	0.43		
CR-Eastern - 1	CAT Grader 16H - 16' Blade	Grader	16.92	2	8	Diesel	285	0.41		
CR-Eastern - 1	623G Scraper Elevate 21 CY	Scaper	33.84	2	17	Diesel	359	0.48		
CR-Eastern - 2	Air Compressor 375 CFM	Air Compressor	34	34	1	Diesel Tier 4	122	0.48		
CR-Eastern - 2	Grove RT Crane 30T	Crane	34	34	1	Diesel	160	0.29		
CR-Eastern - 2	DMM Deep Soil Mixer	Bore Drill Rig	34	34	1	Diesel	522	0.5		
CR-Eastern - 2	DMM Grout Mix Plant	Other Industrial Equipmen	34	34	1	Diesel	500	0.34		
CR-Eastern - 2	Portable 90 Kw Diesel	Generators	15	34	0.4	Diesel Tier 4	158	0.74		
CR-Eastern - 2	Case 590 SupN Loader	Rubber Tired Loaders	34	34	1	Diesel	110	0.36		
CR-Eastern - 2	Water Pump 4" Electric	Pumps	62.9	34	2	Diesel	10	0.74		
CR-Eastern - 3	CAT CB-634D Vibratory 84"	Rollers	620.2	148	4	Diesel	145	0.38		
CR-Eastern - 3	CAT Grader 16H	Graders	620.2	148	4	Diesel	285	0.41		
CR-Eastern - 3	CAT D8 Dozer	Crawler Tractor	620.2	148	4	Diesel	328	0.43		
CR-Eastern - 4	CAT Hyd Excavator 1CY	Excavator	6	12	1	Diesel	138	0.38		
CR-Eastern - 4	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	6	12	1	Diesel or Hybrid	130	0.36		
CR-Eastern - 6	1600 CFM Compressor Diesel	Air Compressor	216	40	5	Diesel Tier 4	540	0.48		
CR-Eastern - 6	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	216	40	5	Diesel or Hybrid	130	0.36		
CR-Eastern - 6	Hydraulic 55 Ton Crane	Crane	463	40	12	Diesel	350	0.29		
CR-Eastern - 6	Manitowoc 777 200 Ton Crane	Crane	463	40	12	Diesel	760	0.29		
CR-Eastern - 6	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	216	40	5	Diesel	8	0.56		
CR-Eastern - 6	Slurry Wall Techniwell	Pumps	216	40	5	Diesel	500	0.74		
CR-Eastern - 7	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	235.5	43	5	Diesel or Hybrid	130	0.36		
CR-Eastern - 7	250 CFM Compressor Diesel	Air Compressor	3.3	43	0.1	Diesel Tier 3	75	0.48		
CR-Eastern - 7	CAT Hyd Excavator 1CY	Excavator	235.5	43	5	Diesel	138	0.38		
CR-Eastern - 7	Hydraulic Excavator to 3.5 tons = Kobelco SK485	Excavator	235.5	43	5	Diesel	345	0.38		
CR-Eastern - 8	Manitowoc 777 200 Ton Crane	Crane	216.1	40	5	Diesel	760	0.29		
CR-Eastern - 9	Manitowoc 777 200 Ton Crane	Crane	111	14	8	Diesel	760	0.29		
CR-Eastern - 9	Hydraulic 40 Ton Crane	Crane	36	14	3	Diesel	300	0.29		
CR-Eastern - 9	Hydraulic 25 Ton Crane	Crane	76.5	14	5	Diesel	100	0.29		
CR-Eastern - 10	Dewater Pump 6"	Pump	400	7	57	Diesel	50	0.74		
CR-Eastern - 10	150 KW Diesel Generator	Generator	100	7	14	Diesel Tier 4	183	0.74		
CR-Eastern - 10	Hydraulic 15 Ton Crane	Crane	100	7	14	Diesel	100	0.29		
CR-Eastern - 11	Manitowoc 777 200 Ton Crane	Crane	87.2	6	15	Diesel	760	0.29		
CR-Eastern - 11	250 CFM Compressor Diesel	Air Compressor	60.2	6	10	Diesel Tier 3	75	0.48		
CR-Eastern - 11	Trailer Conc Pump 100 CY HR	Pump	60.2	6	10	Diesel	200	0.74		
CR-Eastern - 12	250 CFM Compressor Diesel	Air Compressor	99.2	19	5	Diesel Tier 3	75	0.48		
CR-Eastern - 12	Manitowoc 777 200 Ton Crane	Crane	99.2	19	5	Diesel	760	0.29		
CR-Eastern - 13	250 CFM Compressor Diesel	Air Compressor	637.5	75	9	Diesel Tier 3	75	0.48		
CR-Eastern - 13	Hydraulic 9 Ton Crane	Crane	264.8	75	4	Diesel	85	0.29		
CR-Eastern - 13	Manitowoc 777 200 Ton Crane	Crane	50	75	1	Diesel	760	0.29		
CR-Eastern - 13	Manitowoc 999-275 Ton Crane	Crane	117.8	75	2	Diesel	900	0.29		
CR-Eastern - 13	Trailer Conc Pump 100 CY HR	Pump	258.7	75	3	Diesel	200	0.74		
CR-Eastern - 14	Hydraulic 9 Ton Crane	Crane	14	7	2	Diesel	85	0.29		
CR-Eastern - 14	Hydraulic 40 Ton Crane	Crane	14	7	2	Diesel	300	0.29		
CR-Eastern - 14	CAT Forklift 5,500 LB	Aerial Lift	14	7	21	Diesel	63	0.31		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Canal Ranch - Eastern Tunnel Shaft
Options 8A, 8B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
CR-Eastern - 13	Axial Fan 114,000 CFM	60	75	50	40
CR-Eastern - 13	400A, Electric Welder	204.8	7	15	438.857

Vehicle Inventory for Canal Ranch - Eastern Tunnel Shaft
Options 8A, 8B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
CR-Eastern - 1	Truck, Flatbed, 10T, Hwy	Grader and Scraper to and from Sacramento	2	4.1	1.0	4	2.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 1	Truck, Flatbed, 10T, Hwy	Crawler Tractor from Sacramento	1	1.0	1.0	1	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 2	Pickup 1/2T 2 WD	Materials from Sacramento	34	62.9	1.0	61	2	Canal Ranch Shaft to/from Sacramento	31	62	Hybrid Gasoline	
CR-Eastern - 2	Truck Flatbed 4 T Highway	Materials from Sacramento	34	62.9	1.0	61	2	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 2	Mechanic Truck	Materials from Sacramento	34	62.9	1.0	61	2	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 2	Mechanic Truck	Materials from Sacramento	34	87.8	1.0	85	3	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 2	Concrete Transit Mix Truck 12cy	Concrete from Sacramento	34	16.5	1.0	16	0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 2	Truck, Flatbed, 10T, Hwy	Crane, Trencher, & Other Equipment to and from Sacramento	2	6.2	1.0	6	3.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 3	Highway Dump Truck 18 CY	Materials from Sacramento	148	62.2	1.0	60	0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 3	Truck End Dump 16-20cy Hwy	Soil Material in Covered Trucks from Twin Cities Complex	148	738.8	0.4	1705	12	Canal Ranch Shaft to/from Twin Cities Complex	13	26	Diesel	
CR-Eastern - 3	Truck, Flatbed, 10T, Hwy	Grader and Roller to and from Sacramento	2	4.1	1.0	4	2.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 3	Truck, Flatbed, 10T, Hwy	Crawler Tractor to Sacramento	1	1.0	1.0	1	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 4	Truck, Flatbed, 10T, Hwy	Excavator to and from Sacramento	2	2.1	1.0	2	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 4	Truck, Flatbed, 10T, Hwy	Loader from Sacramento	1	1.0	1.0	1	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 5	Truck Flatbed 4 T Highway	Rebar from Sacramento	2	1.0	1.0	1	1	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 5	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road Concrete Batch Plant	2	7.8	0.4	18	9	Canal Ranch Shaft to/from Lambert Road Concrete Batch Plant	13	26	Diesel	
CR-Eastern - 6	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	40	152.9	1.0	148	4	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 6	Truck Flatbed 4 T Highway	Rebar from Sacramento	40	22.7	1.0	22	1	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 6	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road Concrete Batch Plant	40	187.2	0.4	432	11	Canal Ranch Shaft to/from Lambert Road Concrete Batch Plant	13	26	Diesel	
CR-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane and Other Equipment to and from Sacramento	2	4.1	1.0	4	2.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane from Sacramento	1	1.0	1.0	1	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 7	Truck, Flatbed, 10T, Hwy	Loader to Sacramento	1	1.0	1.0	1	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 7	Truck Flatbed 4 T Highway	Rebar from Sacramento	43	1.0	1.0	1	0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 7	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road Concrete Batch Plant	43	3.9	0.4	9	0	Canal Ranch Shaft to/from Lambert Road Concrete Batch Plant	13	26	Diesel	
CR-Eastern - 8	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road Concrete Batch Plant	40	4.8	0.4	11	0	Canal Ranch Shaft to/from Lambert Road Concrete Batch Plant	13	26	Diesel	
CR-Eastern - 9	Truck Flatbed 4 T Highway	Rebar from Sacramento	14	6.2	1.0	6	0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 9	Concrete Transit Mix Truck 12cy	Tremie Concrete from Lambert Road Concrete Batch Plant	14	158.6	0.4	366	26	Canal Ranch Shaft to/from Lambert Road Concrete Batch Plant	13	26	Diesel	
CR-Eastern - 9	Truck, Flatbed, 10T, Hwy	Cranes to and from Sacramento	2	4.1	1.0	4	2.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 10	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	2.1	1.0	2	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 11	Truck Flatbed 4 T Highway	Rebar from Sacramento	6	1.0	1.0	1	0.2	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 11	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road Concrete Batch Plant	6	11.7	0.4	27	5	Canal Ranch Shaft to/from Lambert Road Concrete Batch Plant	13	26	Diesel	
CR-Eastern - 13	Truck Flatbed 4 T Highway	Rebar from Sacramento	75	2.1	1.0	2	0.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 13	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road Concrete Batch Plant	75	85.5	0.5	171	2	Canal Ranch Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
CR-Eastern - 13	Concrete Transit Mix Truck 12cy	Concrete from Lambert Road Concrete Batch Plant	75	44.5	0.5	89	1	Canal Ranch Shaft to/from Lambert Road Concrete Batch Plant	15	30	Diesel	
CR-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to Sacramento	2	1.0	1.0	1	0.5	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	2.1	1.0	2	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 14	Truck, Flatbed, 10T, Hwy	Crane to and from Sacramento	2	2.1	1.0	2	1.0	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
CR-Eastern - 14	Truck, Flatbed, 10T, Hwy	Materials from Sacramento	7	50.0	1.0	48	7	Canal Ranch Shaft to/from Sacramento	31	62	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site										Miles On-Site		
CR-Eastern - 4	CAT 730 Rear Dump	Dumper	12	18.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		93	Diesel or Hybrid	
CR-Eastern - 6	CAT 730 Rear Dump	Dumper	40	246.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1231	Diesel or Hybrid	
CR-Eastern - 6	Articulated Rear Dump 22 CY/CAT 730	Dumper	40	246.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1231	Diesel or Hybrid	
CR-Eastern - 6	Concrete Pump Truck	Off-Highway Truck	40	432.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2163	Diesel	

Employees Required to Canal Ranch - Eastern Tunnel Shaft
Options 8A, 8B

Code	Employee Type	Hours	# WorkDay		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
CR-Eastern - 1	Dozer Operator	16.92	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 1	General Foreman	8.46	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 1	Grader Operator	16.92	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 1	Operator G4 Grade Check	8.46	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 1	Scrapper Operator	33.84	10		Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-1						
CR-Eastern - 2	Laborer G2 General	188.7	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 2	Operating Engineer	62.9	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 2	Operator G2 Plant Operator	125.8	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 2	Operator G3 BH Loader	62.9	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 2	Operator G3a Crane	62.9	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 2	Operator G4 Grade Check	62.9	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 2	Operator G4 Heavy Duty Mechanic	62.9	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 2	Teamster G1 Hwy	62.9	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 2	Teamster G2 Hwy	62.9	10		Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-2						
CR-Eastern - 3	Compactor Operator	620.2	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 3	Dozer Operator	620.2	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 3	Grade Setter / Checker	620.2	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 3	Grader Operator	620.2	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 3	Truck Driver	620.2	10		Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-3						
CR-Eastern - 4	Carpenter	426.5	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 4	Carpenter Foreman	106.6	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 4	Excavator Operator	6	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 4	Lead Miner	6	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 4	Loader Operator	6	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 4	Miner	6	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 4	Shifter	6	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 4	Truck Driver	17.9	10		Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-4						
CR-Eastern - 5	Carpenter	21.8	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 5	Carpenter Foreman	5.5	10		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 5	General Laborer	10.9	10		Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-5						
CR-Eastern - 6	Crane Oiler	463	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	General Foreman	432	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	General Laborer	2376	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Hyd Crane Operator	463	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Iron Worker	2470	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Iron Worker Foreman	494	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Lead Miner	216.3	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Loader Operator	216	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Mechanic Welder	432	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Miner	1730.6	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Shaft Crane Operator	463	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Shifter	710.3	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 6	Truck Driver	216	24		Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-6						
CR-Eastern - 7	Carpenter	33.2	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 7	Carpenter Foreman	8.3	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 7	Excavator Operator	235.5	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 7	General Foreman	235.5	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 7	General Laborer	735.8	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 7	Iron Worker	50.7	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 7	Iron Worker Foreman	12.7	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 7	Loader Operator	235.5	24		Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-7						
CR-Eastern - 8	Crane Oiler	216.1	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 8	Shaft Crane Operator	216.1	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 8	Toplander	216.1	24		Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-8						
CR-Eastern - 9	Bottomlander	111	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 9	Hyd Crane Operator	112.5	24		Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 9	Iron Worker	1176	24		Sacramento to/from Canal Ranch Shaft	31

CR-Eastern - 9	Iron Worker Foreman	147	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 9	Lead Miner	19.1	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 9	Miner	447	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 9	Shaft Crane Operator	111	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 9	Shifter	166.1	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 9	Toplander	255	24	Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-9					
CR-Eastern - 10	Hyd Crane Operator	100	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 10	Lead Miner	100	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 10	Miner	800	24	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 10	Shifter	100	24	Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-10					
CR-Eastern - 11	Bottomlander	52	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Crane Oiler	35.2	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Electrician	8.2	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Iron Worker	216	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Iron Worker Foreman	27	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Lead Miner	60.2	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Mechanic Welder	60.2	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Miner	535.6	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Shaft Crane Operator	87.2	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Shifter	87.2	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 11	Toplander	87.2	10	Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-11					
CR-Eastern - 12	Bottomlander	99.2	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 12	Crane Oiler	99.2	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 12	Iron Worker	793.6	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 12	Iron Worker Foreman	99.2	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 12	Shaft Crane Operator	99.2	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 12	Toplander	99.2	10	Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-12					
CR-Eastern - 13	Bottomlander	50	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Concrete Pump Operator	53.8	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Crane Oiler	168	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Electrician	264.9	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Hyd Crane Operator	264.8	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Lead Miner	637.5	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Mechanic / Welder	788.5	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Miner	4180.8	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Shaft Crane Operator	168	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Shifter	637.5	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 13	Toplander	168	10	Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-13					
CR-Eastern - 14	Bullgang Foreman	50	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 14	Bullgang Laborer	100	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 14	Flat Truck Driver	50	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 14	Hyd Crane Operator	100	10	Sacramento to/from Canal Ranch Shaft	31
CR-Eastern - 14	Mechanic / Welder	50	10	Sacramento to/from Canal Ranch Shaft	31
TOTAL CR-Eastern-14					

Marine Inventory for Canal Ranch - Eastern Tunnel Shaft
Options 8A, 8B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Canal Ranch - Eastern Tunnel Shaft
Options 8A, 8B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Canal Ranch - Eastern Tunnel Shaft
Options 8A, 8B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Canal Ranch - Eastern Tunnel Shaft
Options 8A, 8B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
CR-Eastern - 1	10.6	2	5	4262.6	2131						
CR-Eastern - 3		148				27293.5	184				
CR-Eastern - 4		12		392	33						
CR-Eastern - 5		2									
CR-Eastern - 6		40									
CR-Eastern - 7		43		5408	126						
CR-Eastern - 8		40		23780	595						

**Demolition Assumptions for Canal Ranch - Eastern Tunnel Shaft
Options 8A, 8B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Charter Way Park and Ride
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Excavation	CWPR-1	11/1/2026	11/12/2026	10	5	10
Culvert Pipe	CWPR-2	11/13/2026	11/13/2026	1	1	10
Subdrain System	CWPR-3	11/16/2026	11/16/2026	1	1	10
Road Base	CWPR-4	11/17/2026	11/19/2026	3	3	10
Asphalt Paving	CWPR-5	11/20/2026	11/24/2026	5	5	10
Electrical, Striping, and K-Rail Installation	CWPR-6	11/25/2026	11/25/2026	1	5	10

Acres2.4

Construction Schedule for Terminous Island - Eastern Access Road

Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX G- ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	TI-E Access -1	3/30/2026	4/1/2026	3	3	10
Culvert Pipe	TI-E Access -2	4/2/2026	4/2/2026	1	1	10
Subdrain System	TI-E Access -3	4/3/2026	4/10/2026	6	5	10
Road Base	TI-E Access -4	4/13/2026	4/14/2026	2	2	10
Asphalt	TI-E Access -5	4/15/2026	4/20/2026	5	5	10
KRail and Signs	TI-E Access -6	4/21/2026	4/27/2026	5	5	10

Acres

4.8

Construction Schedule for Terminous - Eastern Tunnel Shaft						
Options 8A, 8B						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Clear and Grub	TI-Eastern - 1	5/14/2031	5/20/2031	5	5	10
Not Used	TI-Eastern - 2					
Raise Shaft Pad	TI-Eastern - 3	11/12/2031	9/2/2032	211	5	10
Excavate, Set Strips, & Place Guide Wall	TI-Eastern - 4	9/3/2032	9/3/2032	1	1	10
Place Guide Walls Concrete	TI-Eastern - 5	9/21/2032	9/22/2032	2	2	10
Excavate Slurry Wall & Place Concrete & Rebar	TI-Eastern - 6	9/23/2032	11/1/2032	40	7	24
Slurry Wall including Strip Forms and Place Rebar & Top Beam	TI-Eastern - 7	11/2/2032	12/14/2032	43	7	24
Excavate Shaft	TI-Eastern - 8	12/15/2032	1/27/2033	43	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	TI-Eastern - 9	1/28/2033	2/10/2033	13	7	24
Dewater Shaft	TI-Eastern - 10	2/11/2033	2/17/2033	7	7	24
Place TBM Cradle Rebar and Cradle Pour	TI-Eastern - 11	2/18/2033	2/25/2033	6	5	10
Breakout Slurry Wall for TBM	TI-Eastern - 12	2/28/2033	3/24/2033	19	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	TI-Eastern - 13	3/25/2033	5/19/2033	40	5	10
Place Shaft Cover	TI-Eastern - 14	5/26/2033	6/1/2033	6	5	10
Total Site Acres	13.3					

Offroad Equipment (Fossil Fuel) Inventory for Terminus - Eastern Tunnel Shaft
Options 8A, 8B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (If known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (If known)
TI-Eastern - 1	CAT D8 Dozer	Crawler Tractor	31.1	5	6	Diesel Tier 4 or Hybrid Dese	179	0.43		
TI-Eastern - 1	CAT Grader 16H - 16' Blade	Grader	31.1	5	6	Diesel	285	0.41		
TI-Eastern - 1	623G Scraper Elevate 21 CY	Scraper	62.2	5	12	Diesel	359	0.48		
TI-Eastern - 3	CAT CB-634D Vibratory 84"	Rollers	1378.7	211	7	Diesel	145	0.38		
TI-Eastern - 3	CAT Grader 16H	Graders	1378.7	211	7	Diesel	285	0.41		
TI-Eastern - 3	CAT D8 Dozer	Crawler Tractor	1378.7	211	7	Diesel	328	0.43		
TI-Eastern - 4	CAT Hyd Excavator 1CY	Excavator	6	1	6	Diesel	138	0.38		
TI-Eastern - 4	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	6	1	6	Diesel or Hybrid	130	0.36		
TI-Eastern - 6	1600 CFM Compressor Diesel	Air Compressor	247	40	6	Diesel Tier 4	540	0.48		
TI-Eastern - 6	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	247	40	6	Diesel or Hybrid	130	0.36		
TI-Eastern - 6	Hydraulic 55 Ton Crane	Crane	494	40	12	Diesel	350	0.29		
TI-Eastern - 6	Manitowoc 777 200 Ton Crane	Crane	494	40	12	Diesel	760	0.29		
TI-Eastern - 6	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	247	40	6	Diesel	8	0.56		
TI-Eastern - 6	Slurry Wall Techniwell	Pumps	247	40	6	Diesel	500	0.74		
TI-Eastern - 7	250 CFM Compressor Diesel	Air Compressor	19.3	43	0.4	Diesel Tier 3	75	0.48		
TI-Eastern - 7	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	235.5	43	5	Diesel or Hybrid	130	0.36		
TI-Eastern - 7	CAT Forklift 5,500 LB	Aerial Lifts	16	43	0	Diesel	63	0.31		
TI-Eastern - 7	CAT Hyd Excavator 1CY	Excavator	251.5	43	6	Diesel	138	0.38		
TI-Eastern - 7	Hydraulic 40 Ton Crane	Crane	16	43	0	Diesel	300	0.38		
TI-Eastern - 7	Hydraulic 9 Ton Crane	Crane	16	43	0	Diesel	85	0.38		
TI-Eastern - 7	Hydraulic Excavator to 3.5	Excavator	235.7	43	5	Diesel	138	0.38		
TI-Eastern - 8	Manitowoc 777 200 Ton Crane	Crane	248	43	6	Diesel	760	0.29		
TI-Eastern - 9	Hydraulic 25 Ton Crane	Crane	76.5	13	6	Diesel	100	0.29		
TI-Eastern - 9	Hydraulic 40 Ton Crane	Crane	36	13	3	Diesel	300	0.29		
TI-Eastern - 9	Manitowoc 777 200 Ton Crane	Crane	111	13	9	Diesel	760	0.29		
TI-Eastern - 10	150 KW Diesel Generator	Generator	100	7	14	Diesel Tier 4	183	0.74		
TI-Eastern - 10	Dewater Pump 6"	Pump	400	7	57	Diesel	50	0.74		
TI-Eastern - 10	Hydraulic 15 Ton Crane	Crane	100	7	14	Diesel	100	0.29		
TI-Eastern - 11	250 CFM Compressor Diesel	Air Compressor	8.2	6	1	Diesel Tier 3	75	0.48		
TI-Eastern - 11	Manitowoc 777 200 Ton Crane	Crane	35.5	6	6	Diesel	760	0.29		
TI-Eastern - 11	Trailer Conc Pump 100 CY HR	Pump	8.2	6	1	Diesel	200	0.74		
TI-Eastern - 12	250 CFM Compressor Diesel	Air Compressor	300	19	16	Diesel Tier 3	75	0.48		
TI-Eastern - 12	Manitowoc 777 200 Ton Crane	Crane	300	19	16	Diesel	760	0.29		
TI-Eastern - 13	250 CFM Compressor Diesel	Air Compressor	678	40	17	Diesel Tier 3	75	0.48		
TI-Eastern - 13	Manitowoc 777 200 Ton Crane	Crane	102	40	3	Diesel	760	0.29		
TI-Eastern - 13	Manitowoc 999-275 Ton Crane	Crane	576	40	14	Diesel	900	0.29		
TI-Eastern - 13	Trailer Conc Pump 100 CY HR	Pump	340	40	9	Diesel	200	0.74		
TI-Eastern - 14	CAT Forklift 5,500 LB	Aerial Lift	50	6	8	Diesel	63	0.31		
TI-Eastern - 14	Hydraulic 40 Ton Crane	Crane	50	6	8	Diesel	300	0.29		
TI-Eastern - 14	Hydraulic 9 Ton Crane	Crane	50	6	8	Diesel	85	0.29		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Terminous - Eastern Tunnel Shaft
Options 8A, 8B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
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NOT NEEDED

Vehicle Inventory for Terminus - Eastern Tunnel Shaft
Options 8A, 8B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
Ti-Eastern - 1	Truck, Flatbed, 10T, Hwy	Scraper to and from Stockton	2	1	0.6	2	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 1	Truck, Flatbed, 10T, Hwy	Dozer and Grader from Stockton	1	1	0.6	2	2.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 3	Highway Dump Truck 18 CY	Materials from Stockton	211	1378.7	0.6	2177	10	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 3	Truck/ End Dump/ 16-20cy/ Hwy	Soil Material in Covered Trucks from Twin Cities Complex	211	3372	0.8	4046	19	Terminus Shaft to/from Twin Cities Complex	25	50	Diesel	
Ti-Eastern - 3	Truck, Flatbed, 10T, Hwy	Roller to and from Stockton	2	1	0.6	2	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 3	Truck, Flatbed, 10T, Hwy	Dozer and Grader to Stockton	1	1	0.6	2	2.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern -4	Truck, Flatbed, 10T, Hwy	Excavator and Loader from Stockton	1	1	0.6	2	2.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 5	Truck Flatbed 4 T Highway	Rebar from Sacramento	2	1	1.3	1	1	Terminus Shaft to/from Sacramento	40	80	Diesel	
Ti-Eastern - 5	Concrete Transit Mix Truck* 12cy	Concrete from Lodi	2	10	0.4	23	12	Terminus Shaft to/from Lodi	13	26	Diesel	
Ti-Eastern - 6	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	40	260	1.3	195	5	Terminus Shaft to/from Sacramento	40	80	Diesel	
Ti-Eastern - 6	Truck Flatbed 4 T Highway	Rebar from Sacramento	40	37	1.3	28	1	Terminus Shaft to/from Sacramento	40	80	Diesel	
Ti-Eastern - 6	Concrete Transit Mix Truck* 12cy	Concrete from Lodi	40	282	0.4	650	16	Terminus Shaft to/from Lodi	13	26	Diesel	
Ti-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	1	0.6	2	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	1	0.6	1	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern -7	Truck, Flatbed, 10T, Hwy	Excavator and Loader to Stockton	1	1	0.6	2	2.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern -7	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	1	0.6	1	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern -7	Truck, Flatbed, 10T, Hwy	Excavator, Forklift, and Crane from and to Stockton	2	4	0.6	6	3.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern -7	Truck Flatbed 4 T Highway	Rebar from Sacramento	43	1	1.3	1	0	Terminus Shaft to/from Sacramento	40	80	Diesel	
Ti-Eastern -7	Concrete Transit Mix Truck* 12cy	Concrete from Lodi	43	5	0.4	12	0	Terminus Shaft to/from Lodi	13	26	Diesel	
Ti-Eastern -8	Truck Flatbed 4 T Highway	Rebar from Sacramento	43	9	1.3	7	0	Terminus Shaft to/from Sacramento	40	80	Diesel	
Ti-Eastern -8	Concrete Transit Mix Truck* 12cy	Concrete from Lodi	43	210	0.4	484	11	Terminus Shaft to/from Lodi	13	26	Diesel	
Ti-Eastern - 9	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	1	0.6	1	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 9	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	1	0.6	2	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 9	Truck Flatbed 4 T Highway	Rebar from Sacramento	13	1	1.3	1	0	Terminus Shaft to/from Sacramento	40	80	Diesel	
Ti-Eastern - 9	Concrete Transit Mix Truck* 12cy	Concrete from Lodi	13	16	0.4	38	3	Terminus Shaft to/from Lodi	13	26	Diesel	
Ti-Eastern - 10	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	1	0.6	2	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 11	Truck Flatbed 4 T Highway	Rebar from Sacramento	6	1	1.3	1	0.2	Terminus Shaft to/from Sacramento	40	80	Diesel	
Ti-Eastern - 11	Concrete Transit Mix Truck* 12cy	Concrete from Lodi	6	15	0.4	35	6	Terminus Shaft to/from Lodi	13	26	Diesel	
Ti-Eastern - 12	Truck Flatbed 4 T Highway	Rebar from Sacramento	19	7	1.3	5	0.3	Terminus Shaft to/from Sacramento	40	80	Diesel	
Ti-Eastern - 13	Concrete Transit Mix Truck* 12cy	Concrete from Lodi	40	169	0.4	391	10	Terminus Shaft to/from Lodi	13	26	Diesel	
Ti-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	1	0.6	1	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	1	0.6	2	1.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Ti-Eastern - 14	Truck, Flatbed, 10T, Hwy	Excavator, Forklift, and two Cranes from and to Stockton	2	5	0.6	8	4.0	Terminus Shaft to/from Stockton	19	38	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site										Miles On-Site		
Ti-Eastern - 4	CAT 730 Rear Dumbo	Dumpeer	1	18.50	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		93	Diesel or Hybrid	
Ti-Eastern - 6	CAT 730 Rear Dumbo	Dumpeer	40	247	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1235	Diesel or Hybrid	
Ti-Eastern - 6	Articulated Rear Dumbo 22 CY/CAT 730	Dumpeer	40	247	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1235	Diesel or Hybrid	
Ti-Eastern - 6	Concrete Pump Truck	Off-Highway Truck	40	494	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2470	Diesel	
Ti-Eastern - 7	Highway Flatbed 10 Ton	Off-Highway Truck	43	16	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		80	Diesel	
Ti-Eastern - 14	Highway Flatbed 10 Ton	Off-Highway Truck	6	50	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		250	Diesel	

Employees Required to Terminus - Eastern Tunnel Shaft
Options 8A, 8B

Code	Employee Type	Hours	# WorkDay		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
TI-Eastern - 1	General Foreman	15.5	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 1	Dozer Operator	31.1	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 1	Grader Operator	31.1	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 1	Operator G4 Grade Check	15.5	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 1	Scraper Operator	62.2	10		Lodi to/from Terminus Shaft	13
TOTAL TI-Eastern-1						
TI-Eastern - 3	Compactor Operator	1378.7	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 3	Dozer Operator	1378.7	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 3	Grade Setter / Checker	1378.7	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 3	Grader Operator	1378.7	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 3	Truck Driver	1378.7	10		Lodi to/from Terminus Shaft	13
TOTAL TI-Eastern-3						
TI-Eastern - 4	Carpenter	353.4	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 4	Carpenter Foreman	88.4	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 4	Excavator Operator	6	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 4	Lead Miner	6	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 4	Loader Operator	6	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 4	Miner	6	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 4	Shifter	6	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 4	Truck Driver	17.9	10		Lodi to/from Terminus Shaft	13
TOTAL TI-Eastern-4						
TI-Eastern - 5	Carpenter	95	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 5	Carpenter Foreman	23.7	10		Lodi to/from Terminus Shaft	13
TI-Eastern - 5	General Laborer	10.9	10		Lodi to/from Terminus Shaft	13
TOTAL TI-Eastern-5						
TI-Eastern - 6	Crane Oiler	494	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 6	General Foreman	494	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 6	General Laborer	2717	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 6	Hyd Crane Operator	494	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 6	Iron Worker	2470	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 6	Iron Worker Foreman	494	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 6	Lead Miner	247	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 6	Loader Operator	247	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 6	Mechanic Welder	247	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 6	Miner	1976	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 6	Shifter	741	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 6	Shaft Crane Operator	494	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 6	Truck Driver	247	24		Lodi to/from Terminus Shaft	13
TOTAL TI-Eastern-6						
TI-Eastern - 7	Bullgang Foreman	16	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	Bullgang Laborer	32	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	Carpenter	33.2	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	Carpenter Foreman	8.3	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	Excavator Operator	251.5	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	Flat Truck Driver	16	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	General Foreman	735.8	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	General Laborer	735.8	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	Hyd Crane Operator	32	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	Iron Worker	50.7	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	Iron Worker Foreman	12.7	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	Loader Operator	235.5	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 7	Mechanic / Welder	16	24		Lodi to/from Terminus Shaft	13
TOTAL TI-Eastern-7						
TI-Eastern - 8	Crane Oiler	248	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 8	Diver Contractor	248	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 8	Shaft Crane Operator	248	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 8	Toplander	248	24		Lodi to/from Terminus Shaft	13
TOTAL TI-Eastern-8						
TI-Eastern - 9	Bottomlander	111	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 9	Hyd Crane Operator	112.5	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 9	Iron Worker	1176	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 9	Iron Worker Foreman	147	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 9	Lead Miner	19.1	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 9	Miner	447	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 9	Shaft Crane Operator	111	24		Lodi to/from Terminus Shaft	13
TI-Eastern - 9	Shifter	166.1	24		Lodi to/from Terminus Shaft	13

TI-Eastern - 9	Toplander	255	24	Lodi to/from Terminus Shaft	13
TOTAL TI-Eastern-9					
TI-Eastern - 10	Shifter	100	24	Lodi to/from Terminus Shaft	13
TI-Eastern - 10	Lead Miner	100	24	Lodi to/from Terminus Shaft	13
TI-Eastern - 10	Miner	800	24	Lodi to/from Terminus Shaft	13
TI-Eastern - 10	Hyd Crane Operator	100	24	Lodi to/from Terminus Shaft	13
TOTAL TI-Eastern-10					
TI-Eastern - 11	Crane Oiler	35.5	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 11	Electrician	8.2	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 11	Iron Worker	218.7	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 11	Iron Worker Foreman	27.3	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 11	Lead Miner	8.2	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 11	Mechanic Welder	8.2	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 11	Miner	120.3	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 11	Shaft Crane Operator	35.5	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 11	Shifter	35.5	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 11	Toplander	35.5	10	Lodi to/from Terminus Shaft	13
TOTAL TI-Eastern-11					
TI-Eastern - 12	Bottomlander	300	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 12	Crane Oiler	300	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 12	Iron Worker	2400	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 12	Iron Worker Foreman	300	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 12	Shaft Crane Operator	300	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 12	Toplander	300	10	Lodi to/from Terminus Shaft	13
TOTAL TI-Eastern-12					
TI-Eastern - 13	Bottomlander	102	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 13	Concrete Pump Operator	288	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 13	Crane Oiler	626	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 13	Lead Miner	678	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 13	Mechanic / Welder	390	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 13	Miner	5324	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 13	Shaft Crane Operator	678	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 13	Shifter	678	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 13	Toplander	678	10	Lodi to/from Terminus Shaft	13
TOTAL TI-Eastern-13					
TI-Eastern - 14	Bullgang Foreman	50	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 14	Bullgang Laborer	100	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 14	Mechanic / Welder	50	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 14	Hyd Crane Operator	100	10	Lodi to/from Terminus Shaft	13
TI-Eastern - 14	Flat Truck Driver	50	10	Lodi to/from Terminus Shaft	13
TOTAL TI-Eastern-14					

Marine Inventory for Terminous - Eastern Tunnel Shaft
Options 8A, 8B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Terminous - Eastern Tunnel Shaft
Options 8A, 8B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Terminous - Eastern Tunnel Shaft
Options 8A, 8B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Terminus - Eastern Tunnel Shaft
Options 8A, 8B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
Ti-Eastern - 1	13.3	5	3								
Ti-Eastern - 3		211				60681.6	288				
Ti-Eastern - 4		1		392	392						
Ti-Eastern - 6		40		6175	154						
Ti-Eastern - 8		43		27325	635						

**Demolition Assumptions for Terminous - Eastern Tunnel Shaft
Options 8A, 8B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for King Island - Eastern Access Road
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX G - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Road Base	KI-E Access -1	2/9/2027	2/11/2027	4	4	10
12 month maintenance	KI-E Access -2	4/4/2028	4/14/2028	9	5	10
12 month maintenance	KI-E Access -3	4/4/2029	4/14/2029	9	5	10

Acres 0.2

Construction Schedule for King I - Eastern Tunnel Shaft						
Options 8A, 8B						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Clear and Grub	KI-Eastern - 1	2/27/2030	3/19/2030	15	5	10
Not Used	KI-Eastern - 2					
Raise Shaft Pad	KI-Eastern - 3	5/15/2030	5/13/2031	263	5	10
Excavate, Set Strips, & Place Guide Wall	KI-Eastern - 4	5/14/2031	5/29/2031	12	5	10
Place Guide Walls Concrete	KI-Eastern - 5	5/30/2031	6/2/2031	4	4	10
Excavate Slurry Wall & Place Concrete & Rebar	KI-Eastern - 6	6/3/2031	7/10/2031	38	7	24
Slurry Wall including Strip Forms and Place Rebar	KI-Eastern - 7	7/11/2031	8/22/2031	43	7	24
Excavate Shaft	KI-Eastern - 8	8/25/2031	10/1/2031	38	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	KI-Eastern - 9	10/2/2031	10/15/2031	14	7	24
Dewater Shaft	KI-Eastern - 10	10/16/2031	10/22/2031	7	7	24
Place TBM Cradle Rebar and Cradle Pour	KI-Eastern - 11	10/23/2031	10/30/2031	6	5	10
Breakout Slurry Wall for TBM	KI-Eastern - 12	10/31/2031	11/26/2031	19	5	10
Assemble & Place Buttress, Form, & Concrete for	KI-Eastern - 13	10/31/2031	2/19/2032	70	5	10
Place Shaft Cover	KI-Eastern - 14	2/19/2032	2/27/2032	6	5	10
Total Site Acres	12					

Offroad Equipment (Fossil Fuel) Inventory for King I - Eastern Tunnel Shaft
Options 8A, 8B

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
KI-Eastern - 1	CAT D8 Dozer	Crawler Tractor	22.26	15	1	Diesel Tier 4 or Hybrid Diesel	179	0.43		
KI-Eastern - 1	CAT Grader 16H - 16' Blade	Grader	22.26	15	1	Diesel	285	0.41		
KI-Eastern - 1	623G Scraper Elevate 21 CY	Scraper	44.52	15	3	Diesel	359	0.48		
KI-Eastern - 3	CAT CB-634D Vibratory 84"	Rollers	1649.9	263	6	Diesel	145	0.38		
KI-Eastern - 3	CAT Grader 16H	Graders	1649.9	263	6	Diesel	285	0.41		
KI-Eastern - 3	CAT D8 Dozer	Crawler Tractor	1649.9	263	6	Diesel	328	0.43		
KI-Eastern - 4	CAT Hyd Excavator 1CY	Excavator	6	12	1	Diesel	138	0.38		
KI-Eastern - 4	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	6	12	1	Diesel or Hybrid	130	0.36		
KI-Eastern - 6	1600 CFM Compressor Diesel	Air Compressor	211	38	6	Diesel Tier 4	540	0.48		
KI-Eastern - 6	Hydraulic 55 Ton Crane	Crane	422	38	11	Diesel	350	0.29		
KI-Eastern - 6	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	211	38	6	Diesel or Hybrid	130	0.36		
KI-Eastern - 6	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	211	38	6	Diesel	8	0.56		
KI-Eastern - 6	Slurry Wall Techniwell	Pumps	211	38	6	Diesel	500	0.74		
KI-Eastern - 6	Manitowoc 777 200 Ton Crane	Crane	422	38	11	Diesel	760	0.29		
KI-Eastern - 7	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	235.5	43	5	Diesel or Hybrid	130	0.36		
KI-Eastern - 7	250 CFM Compressor Diesel	Air Compressor	4	43	0.1	Diesel Tier 3	75	0.48		
KI-Eastern - 7	Hydraulic Excavator to 3.5	Excavator	235.5	43	5	Diesel	138	0.38		
KI-Eastern - 7	CAT Hyd Excavator 1CY	Excavator	235.5	43	5	Diesel	138	0.38		
KI-Eastern - 8	Manitowoc 777 200 Ton Crane	Crane	231	38	6	Diesel	760	0.29		
KI-Eastern - 9	Manitowoc 777 200 Ton Crane	Crane	111	14	8	Diesel	760	0.29		
KI-Eastern - 9	Hydraulic 40 Ton Crane	Crane	36	14	3	Diesel	300	0.29		
KI-Eastern - 9	Hydraulic 25 Ton Crane	Crane	76.5	14	5	Diesel	100	0.29		
KI-Eastern - 10	Dewater Pump 6"	Pump	400	7	57	Diesel	50	0.74		
KI-Eastern - 10	150 KW Diesel Generator	Generator	100	7	14	Diesel Tier 4	183	0.74		
KI-Eastern - 10	Hydraulic 15 Ton Crane	Crane	100	7	14	Diesel	100	0.29		
KI-Eastern - 11	Manitowoc 777 200 Ton Crane	Crane	35.2	6	6	Diesel	760	0.29		
KI-Eastern - 11	250 CFM Compressor Diesel	Air Compressor	8.2	6	1	Diesel Tier 3	75	0.48		
KI-Eastern - 11	Trailer Conc Pump 100 CY HR	Pump	8.2	6	1	Diesel	200	0.74		
KI-Eastern - 12	250 CFM Compressor Diesel	Air Compressor	118.7	19	6	Diesel Tier 3	75	0.48		
KI-Eastern - 12	Manitowoc 777 200 Ton Crane	Crane	118.7	19	6	Diesel	760	0.29		
KI-Eastern - 13	250 CFM Compressor Diesel	Air Compressor	700	70	10	Diesel Tier 3	75	0.48		
KI-Eastern - 13	Trailer Conc Pump 100 CY HR	Pump	321.2	70	5	Diesel	200	0.74		
KI-Eastern - 13	Manitowoc 777 200 Ton Crane	Crane	102	70	1	Diesel	760	0.29		
KI-Eastern - 13	Manitowoc 999-275 Ton Crane	Crane	128.3	70	2	Diesel	900	0.29		
KI-Eastern - 13	Hydraulic 9 Ton Crane	Crane	264.8	70	4	Diesel	85	0.29		
KI-Eastern - 14	Hydraulic 9 Ton Crane	Crane	40	6	7	Diesel	85	0.29		
KI-Eastern - 14	Hydraulic 40 Ton Crane	Crane	40	6	7	Diesel	300	0.29		
KI-Eastern - 14	CAT Forklift 5,500 LB	Aerial Lift	40	6	7	Diesel	63	0.31		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for King Island - Eastern Tunnel Shaft
Options 8A, 8B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
KI-13	400A, Electric Welder	204.8	70	15	43.886
KI-13	Axial Fan 114,000 CFM	60	70	50	43

Vehicle Inventory for King Island - Eastern Tunnel Shaft
Options 8A, 8B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/Trip	# of Vehicles Trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
KI-Eastern - 1	Truck, Flatbed, 10T, Hwy	Scraper to and from Stockton	2	0.9	0.4	2	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 1	Truck, Flatbed, 10T, Hwy	Dozer and Grader from Stockton	1	0.4	0.4	1	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 2	Truck, Flatbed, 10T, Hwy	Materials from Stockton	0	22.5	0.4	52	#DIV/0!	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 3	Highway Dump Truck 18 CY	Materials from Stockton	263	1694.9	0.4	3911	15	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 3	Truck/ End Dump/ 16-20cy/ Hwy	Soil Material in Covered Trucks from Twin Cities Complex	263	4307.3	0.9	4970	19	King I Shaft to/from Twin Cities Complex	26	52	Diesel	
KI-Eastern - 3	Truck, Flatbed, 10T, Hwy	Roller to and from Stockton	2	0.9	0.4	2	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 3	Truck, Flatbed, 10T, Hwy	Dozer and Grader to Stockton	1	0.4	0.4	1	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern -4	Truck, Flatbed, 10T, Hwy	Excavator and Loader from Stockton	1	0.9	0.4	2	2.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern -4	Truck Flatbed 4 T Highway	Rebar from Sacramento	12	1.4	1.4	1	0	King I Shaft to/from Sacramento	43	86	Diesel	
KI-Eastern -4	Concrete Transit Mix Truck/ 12cy	Concrete from Lambert Rd	12	19.9	0.9	23	2	King I Shaft to/from Lambert Road Concrete Batch Plant	26	52	Diesel	
KI-Eastern - 6	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	38	279.5	1.4	195	5	King I Shaft to/from Sacramento	43	86	Diesel	
KI-Eastern - 6	Truck Flatbed 4 T Highway	Rebar from Sacramento	38	34.4	1.4	24	1	King I Shaft to/from Sacramento	43	86	Diesel	
KI-Eastern -6	Concrete Transit Mix Truck/ 12cy	Concrete from Lambert	38	481.0	0.9	555	15	King I Shaft to/from Lambert Road Concrete Batch Plant	26	52	Diesel	
KI-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	0.9	0.4	2	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	0.4	0.4	1	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern -7	Truck, Flatbed, 10T, Hwy	Excavator and Loader to Stockton	1	0.9	0.4	2	2.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern -7	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	0.4	0.4	1	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern -7	Truck Flatbed 4 T Highway	Rebar from Sacramento	43	1.4	1.4	1	0	King I Shaft to/from Sacramento	43	86	Diesel	
KI-Eastern -7	Concrete Transit Mix Truck/ 12cy	Concrete from Lambert Rd	43	9.5	0.9	11	0	King I Shaft to/from Lambert Road Concrete Batch Plant	26	52	Diesel	
KI-Eastern - 9	Truck Flatbed 4 T Highway	Rebar from Sacramento	14	10.0	1.4	7	1	King I Shaft to/from Sacramento	43	86	Diesel	
KI-Eastern - 9	Concrete Transit Mix Truck/ 12cy	Concrete from Lambert Rd	14	419.5	0.9	484	35	King I Shaft to/from Lambert Road Concrete Batch Plant	26	52	Diesel	
KI-Eastern - 9	Truck, Flatbed, 10T, Hwy	Two Cranes to and from Stockton	2	1.7	0.4	4	2.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern -10	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	0.9	0.4	2	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern -11	Truck Flatbed 4 T Highway	Rebar from Sacramento	6	1.4	1.4	1	0.2	King I Shaft to/from Sacramento	43	86	Diesel	
KI-Eastern -11	Concrete Transit Mix Truck/ 12cy	Concrete from Lambert Rd	6	30.3	0.9	35	6	King I Shaft to/from Lambert Road Concrete Batch Plant	26	52	Diesel	
KI-Eastern -12	Truck Flatbed 4 T Highway	Rebar from Sacramento	19	2.9	1.4	2	0.1	King I Shaft to/from Sacramento	43	86	Diesel	
KI-Eastern -13	Concrete Transit Mix Truck/ 12cy	Concrete from Lambert Rd	70	316.3	0.9	365	5	King I Shaft to/from Lambert Road Concrete Batch Plant	26	52	Diesel	
KI-Eastern -13	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	0.4	0.4	1	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern -13	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	0.9	0.4	2	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern -14	Truck, Flatbed, 10T, Hwy	Forklift from and to Stockton	1	0.9	0.4	2	2.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern -14	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	0.4	0.4	1	1.0	King I Shaft to/from Stockton	13	26	Diesel	
KI-Eastern -14	Truck, Flatbed, 10T, Hwy	Materials from Stockton	6	0.4	0.4	1	0.2	King I Shaft to/from Stockton	13	26	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site										Miles On-Site		
KI-Eastern - 3	Highway Dump Truck 18 CY	Dumper	263	1694.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		8475	Diesel	
KI-Eastern -4	CAT 730 Rear Dumbo	Dumper	12	18.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		93	Diesel or Hybrid	
KI-Eastern - 6	CAT 730 Rear Dump	Dumper	38	240.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1203	Diesel or Hybrid	
KI-Eastern - 6	Articulated Rear Dump 22 CY/CAT 730	Dumper	38	211.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1055	Diesel or Hybrid	
KI-Eastern - 6	Concrete Pump Truck	Off-Highway Truck	38	422.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2110	Diesel	
KI-Eastern -14	Highway Flatbed 30 Ton	Off-Highway Truck	6	40	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		300	Diesel	

Employees Required to King Island - Eastern Tunnel Shaft
Options 8A, 8B

Code	Employee Type	Hours	# WorkDay		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
KI-Eastern - 1	General Foreman	11.13	10		Stockton to/from King I Shaft	13
KI-Eastern - 1	Dozer Operator	22.26	10		Stockton to/from King I Shaft	13
KI-Eastern - 1	Grader Operator	22.26	10		Stockton to/from King I Shaft	13
KI-Eastern - 1	Operator G4 Grade Check	11.13	10		Stockton to/from King I Shaft	13
KI-Eastern - 1	Scraper Operator	44.52	10		Stockton to/from King I Shaft	13
TOTAL KI-Eastern-1		111.3				
KI-Eastern - 3	Grade Setter / Checker	1694.9	10		Stockton to/from King I Shaft	13
KI-Eastern - 3	Compactor Operator	1694.9	10		Stockton to/from King I Shaft	13
KI-Eastern - 3	Dozer Operator	1694.9	10		Stockton to/from King I Shaft	13
KI-Eastern - 3	Grader Operator	1694.9	10		Stockton to/from King I Shaft	13
KI-Eastern - 3	Truck Driver	1694.9	10		Stockton to/from King I Shaft	13
TOTAL KI-Eastern-3						
KI-Eastern - 4	Carpenter	353.4	10		Stockton to/from King I Shaft	13
KI-Eastern - 4	Carpenter Foreman	88.4	10		Stockton to/from King I Shaft	13
KI-Eastern - 4	Excavator Operator	6	10		Stockton to/from King I Shaft	13
KI-Eastern - 4	Lead Miner	6	10		Stockton to/from King I Shaft	13
KI-Eastern - 4	Loader Operator	6	10		Stockton to/from King I Shaft	13
KI-Eastern - 4	Miner	6	10		Stockton to/from King I Shaft	13
KI-Eastern - 4	Shifter	6	10		Stockton to/from King I Shaft	13
KI-Eastern - 4	Truck Driver	17.9	10		Stockton to/from King I Shaft	13
TOTAL KI-Eastern-4						
KI-Eastern - 5	General Laborer	10.9	10		Stockton to/from King I Shaft	13
KI-Eastern - 5	Carpenter	95	10		Stockton to/from King I Shaft	13
KI-Eastern - 5	Carpenter Foreman	23.7	10		Stockton to/from King I Shaft	13
TOTAL KI-Eastern-5						
KI-Eastern - 6	Crane Oiler	422	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	General Foreman	422	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	General Laborer	2321	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Hyd Crane Operator	422	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Iron Worker	2110	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Iron Worker Foreman	422	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Lead Miner	211	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Loader Operator	211	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Mechanic Welder	422	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Miner	1688	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Shaft Crane Operator	422	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Shifter	633	24		Stockton to/from King I Shaft	13
KI-Eastern - 6	Truck Driver	240.5	24		Stockton to/from King I Shaft	13
TOTAL KI-Eastern-6						
KI-Eastern - 7	Carpenter	36.8	24		Stockton to/from King I Shaft	13
KI-Eastern - 7	Carpenter Foreman	9.2	24		Stockton to/from King I Shaft	13
KI-Eastern - 7	Excavator Operator	235.5	24		Stockton to/from King I Shaft	13
KI-Eastern - 7	General Foreman	235.5	24		Stockton to/from King I Shaft	13
KI-Eastern - 7	General Laborer	735.9	24		Stockton to/from King I Shaft	13
KI-Eastern - 7	Iron Worker	44	24		Stockton to/from King I Shaft	13
KI-Eastern - 7	Iron Worker Foreman	11	24		Stockton to/from King I Shaft	13
KI-Eastern - 7	Loader Operator	235.5	24		Stockton to/from King I Shaft	13
TOTAL KI-Eastern-7						
KI-Eastern - 8	Crane Oiler	231	24		Stockton to/from King I Shaft	13
KI-Eastern - 8	Shaft Crane Operator	231	24		Stockton to/from King I Shaft	13
KI-Eastern - 8	Toplander	231	24		Stockton to/from King I Shaft	13
TOTAL KI-Eastern-8						
KI-Eastern - 9	Bottomlander	111	24		Stockton to/from King I Shaft	13
KI-Eastern - 9	Hyd Crane Operator	112.5	24		Stockton to/from King I Shaft	13
KI-Eastern - 9	Iron Worker	1176	24		Stockton to/from King I Shaft	13
KI-Eastern - 9	Iron Worker Foreman	147	24		Stockton to/from King I Shaft	13
KI-Eastern - 9	Lead Miner	19.1	24		Stockton to/from King I Shaft	13
KI-Eastern - 9	Miner	447	24		Stockton to/from King I Shaft	13
KI-Eastern - 9	Shaft Crane Operator	111	24		Stockton to/from King I Shaft	13
KI-Eastern - 9	Shifter	166.1	24		Stockton to/from King I Shaft	13
KI-Eastern - 9	Toplander	255	24		Stockton to/from King I Shaft	13
TOTAL KI-Eastern-9						
KI-Eastern - 10	Hyd Crane Operator	100	24		Stockton to/from King I Shaft	13
KI-Eastern - 10	Lead Miner	100	24		Stockton to/from King I Shaft	13
KI-Eastern - 10	Miner	800	24		Stockton to/from King I Shaft	13

KI-Eastern - 10	Shifter	100	24	Stockton	to/from King I Shaft	13
TOTAL KI-Eastern-10						
KI-Eastern - 11	Crane Oiler	35.2	10	Stockton	to/from King I Shaft	13
KI-Eastern - 11	Electrician	8.2	10	Stockton	to/from King I Shaft	13
KI-Eastern - 11	Iron Worker	216	10	Stockton	to/from King I Shaft	13
KI-Eastern - 11	Iron Worker Foreman	27	10	Stockton	to/from King I Shaft	13
KI-Eastern - 11	Lead Miner	8.2	10	Stockton	to/from King I Shaft	13
KI-Eastern - 11	Mechanic Welder	8.2	10	Stockton	to/from King I Shaft	13
KI-Eastern - 11	Miner	119.6	10	Stockton	to/from King I Shaft	13
KI-Eastern - 11	Shaft Crane Operator	35.2	10	Stockton	to/from King I Shaft	13
KI-Eastern - 11	Shifter	35.2	10	Stockton	to/from King I Shaft	13
KI-Eastern - 11	Toplander	35.2	10	Stockton	to/from King I Shaft	13
TOTAL KI-Eastern-11						
KI-Eastern - 12	Bottomlander	118.7	10	Stockton	to/from King I Shaft	13
KI-Eastern - 12	Crane Oiler	118.7	10	Stockton	to/from King I Shaft	13
KI-Eastern - 12	Iron Worker	949.4	10	Stockton	to/from King I Shaft	13
KI-Eastern - 12	Iron Worker Foreman	118.7	10	Stockton	to/from King I Shaft	13
KI-Eastern - 12	Shaft Crane Operator	118.7	10	Stockton	to/from King I Shaft	13
KI-Eastern - 12	Toplander	118.7	10	Stockton	to/from King I Shaft	13
TOTAL KI-Eastern-12						
KI-Eastern - 13	Bottomlander	102	10	Stockton	to/from King I Shaft	13
KI-Eastern - 13	Concrete Pump Operator	64.3	10	Stockton	to/from King I Shaft	13
KI-Eastern - 13	Crane Oiler	178	10	Stockton	to/from King I Shaft	13
KI-Eastern - 13	Electrician	265	10	Stockton	to/from King I Shaft	13
KI-Eastern - 13	Hyd Crane Operator	265	10	Stockton	to/from King I Shaft	13
KI-Eastern - 13	Lead Miner	700	10	Stockton	to/from King I Shaft	13
KI-Eastern - 13	Mechanic / Welder	840.5	10	Stockton	to/from King I Shaft	13
KI-Eastern - 13	Miner	4680.8	10	Stockton	to/from King I Shaft	13
KI-Eastern - 13	Shaft Crane Operator	230	10	Stockton	to/from King I Shaft	13
KI-Eastern - 13	Shifter	700	10	Stockton	to/from King I Shaft	13
KI-Eastern - 13	Toplander	230	10	Stockton	to/from King I Shaft	13
TOTAL KI-Eastern-13						
KI-Eastern - 14	Bullgang Foreman	40	10	Stockton	to/from King I Shaft	13
KI-Eastern - 14	Bullgang Laborer	80	10	Stockton	to/from King I Shaft	13
KI-Eastern - 14	Mechanic / Welder	40	10	Stockton	to/from King I Shaft	13
KI-Eastern - 14	Hyd Crane Operator	80	10	Stockton	to/from King I Shaft	13
KI-Eastern - 14	Flat Truck Driver	40	10	Stockton	to/from King I Shaft	13
TOTAL KI-Eastern-14						

Marine Inventory for King I - Eastern Tunnel Shaft
Options 8A, 8B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for King I - Eastern Tunnel Shaft
Options 8A, 8B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

Helicopter Inventory for King I - Eastern Tunnel Shaft
Options 8A, 8B

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for King 1 - Eastern Tunnel Shaft
Options 8A, 8B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
KI-Eastern - 1	12	15	1								
KI-Eastern - 3		263				74535.1	283				
KI-Eastern - 4		12		392	33						
KI-Eastern - 6		38		5268	139						
KI-Eastern - 8		38		25420	669						

**Demolition Assumptions for King I - Eastern Tunnel Shaft
Options 8A, 8B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Lower Roberts I Levee - Eastern
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX G - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Construct Levee	LR I Levee-E -1	9/13/2028	11/21/2028	49	5	10

Construction Schedule for Lower Roberts I - Eastern Access Road**Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B****THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX G- ATTACHMENT 1**

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	Lower Roberts I - E Access -1	5/12/2026	6/5/2026	19	5	10
Embankment	Lower Roberts I - E Access -2	6/8/2026	7/15/2026	28	5	10
Culvert Pipe	Lower Roberts I - E Access -3	7/16/2026	7/21/2026	5	5	10
Bridge over Turner Cut	Lower Roberts I - E Access -4	7/16/2026	8/27/2026	31	5	10
Subdrain System	Lower Roberts I - E Access -5	7/22/2026	9/15/2026	40	5	10
Road Base	Lower Roberts I - E Access -6	9/16/2026	10/21/2026	26	5	10
Bridge over Burns Cut	Lower Roberts I - E Access -7	9/16/2026	2/8/2027	104	5	10
Asphalt Paving	Lower Roberts I - E Access -8	1/5/2027	2/8/2027	25	5	10
KRail and Signs	Lower Roberts I - E Access -9	2/10/2027	2/11/2027	2	2	10
Intermediate Overlay	Lower Roberts I - E Access -10	4/15/2030	5/10/2030	20	5	10
Final Overlay	Lower Roberts I - E Access -11	12/6/2038	12/20/2038	11	5	10

Acres**31**

Construction Schedule for Lower Roberts I Railroad - Eastern Access
Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX G - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Track	LRI RR - Eastern Access -1	7/5/2027	9/9/2027	49	5	10

PLEASE NOTE THAT BRIDGES OVER BURNS AND TURNER CUTS WOULD BE A ROADWAY & RAILROAD BRIDGE. CONSTRUCTION OF BRIDGE INCLUDED IN LOWER ROBERTS ISLAND - EASTERN ACCESS ROAD. THIS WORKBOOK INCLUDES CONSTRUCTION OF RAILROAD ON LOWER ROBERTS ISLAND.

Construction Schedule for Lower Roberts Island - Eastern Tunnel Shaft						
Options 8A, 8B						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Embankment	LRI-Eastern - 1	5/18/2027	6/4/2027	14	5	10
Subdrain	LRI-Eastern - 2	6/7/2027	7/2/2027	20	5	10
Mobilize	LRI-Eastern - 3	7/19/2028	9/12/2028	39	5	10
Management, Engineering, & Field Labor	LRI-Eastern - 4	7/19/2028	3/21/2036	1972	5	10
Clear and Grub	LRI-Eastern - 5	9/13/2028	10/10/2028	19	5	10
Grading, & Compaction at Shaft & Segment Storage Area	LRI-Eastern - 6	10/3/2029	10/30/2029	20	5	10
Ground Improvement, Grading, & Compaction at RTM Storage Area	LRI-Eastern - 7	10/10/2029	8/12/2030	220	5	
						10
Raise Shaft Pad	LRI-Eastern - 8	3/14/2029	2/26/2030	250	5	10
Excavate, Set Strips, & Concrete for Shaft & Segment Areas	LRI-Eastern - 9	12/5/2029	7/25/2030	161	5	10
Place Guide Walls Concrete	LRI-Eastern - 10	2/27/2030	3/22/2030	18	5	10
Excavate Slurry Wall, Place Concrete & Rebar, Slurry Wall, Remove Guide Wall, & add Top Beam	LRI-Eastern - 11	3/25/2030	7/18/2030	85	5	10
Excavate Shaft	LRI-Eastern - 12	7/19/2030	10/16/2030	66	5	10
Place Tremie Seal Rebar, Cooling Pipes, & Seal	LRI-Eastern - 13	10/17/2030	11/13/2030	28	7	24
Dewater Shaft	LRI-Eastern - 14	11/14/2030	11/20/2030	10	7	24
Place TBM Cradle Rebar and Cradle Pour	LRI-Eastern - 15	11/21/2030	12/3/2030	9	5	10
Breakout Slurry Wall for TBM	LRI-Eastern - 16	12/4/2030	12/31/2030	20	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	LRI-Eastern - 17	1/1/2031	3/25/2031	60	5	10
Erect Gantry Crane	LRI-Eastern - 18	3/26/2031	4/16/2031	16	5	10
TBM Assembly including Shaft Utilities	LRI-Eastern - 19	4/17/2031	12/3/2031	165	5	10
Tunneling Operations including Equipment Delivery	LRI-Eastern - 20	4/17/2031	1/7/2036	1447	6	20
Remove TBM and Tunnel Equipment	LRI-Eastern - 21	1/7/2036	3/21/2036	53	5	10
Final Access to RTM Storage Area	LRI-Eastern - 22	3/21/2036	3/26/2036	5	5	10
Site Restoration	LRI-Eastern - 23	3/26/2036	10/9/2036	142	5	10
Total Site Acres	407					

**Offroad Equipment (Fossil Fuel) Inventory for Lower Roberts Island - Eastern Tunnel Shaft
Options 8A, 8B**

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
LRI-Eastern - 1	CAT 14 M	Grader	65.5	14	5	Diesel	274	0.41		
LRI-Eastern - 1	CAT 825, Roller	Rollers	131	14	9	Diesel	315	0.38		
LRI-Eastern - 1	CAT D6LGPDozer w winch	Crawler Tractor	131	14	9	Diesel or Hybrid	179	0.43		
LRI-Eastern - 1	Disk, Towed	Off-Highway Tractor	131	14	9	Diesel	140	0.44		
LRI-Eastern - 1	Light Plant, 4 lite, 1000w,	Generators	524	14	37	Diesel	12	0.74		
LRI-Eastern - 2	CAT LOADER/HOE 416 E	Rubber Tired Loader	49.13	20	2	Diesel	78	0.36		
LRI-Eastern - 2	Compactor, Trench Roller, Vib 32"w	Roller	98.25	20	5	Diesel	20	0.38		
LRI-Eastern - 3	CAT Forklift 5,500 LB	Aerial Lift	400	39	10	Diesel	63	0.31		
LRI-Eastern - 3	Hydraulic 40 Ton Crane	Crane	400	39	10	Diesel	300	0.29		
LRI-Eastern - 3	Hydraulic 9 Ton Crane	Crane	400	39	10	Diesel	85	0.29		
LRI-Eastern - 5	623G Scraper Elevate 21 CY	Scaper	2031.5	19	107	Diesel	359	0.48		
LRI-Eastern - 5	CAT D8 Dozer	Crawler Tractor	1015.8	19	53	Diesel Tier 4 or Hybrid Diesel	179	0.43		
LRI-Eastern - 5	Grader 16H - 16' Blade	Grader	1015.8	19	53	Diesel	285	0.41		
LRI-Eastern - 6	CAT 825H Compactor	Rollers	120	20	6	Diesel	145	0.38		
LRI-Eastern - 6	CAT 980 Loader 7.5 CY	Grader	120	20	6	Diesel	285	0.41		
LRI-Eastern - 6	CAT CB-634D Vibratory 84"	Rollers	120	20	6	Diesel	315	0.38		
LRI-Eastern - 6	CAT D8 Dozer	Crawler Tractor	120	20	6	Diesel Tier 4 or Hybrid Diesel	179	0.43		
LRI-Eastern - 6	CAT Grader 16H	Grader	120	20	6	Diesel	285	0.41		
LRI-Eastern - 7	Air Compressor 375 CFM	Air Compressor	3547	220	16	Diesel Tier 4	122	0.48		
LRI-Eastern - 7	Case 590 SupN Loader	Rubber Tired Loaders	3547	220	16	Diesel	110	0.36		
LRI-Eastern - 7	CAT 825H Compactor	Rollers	202	220	1	Diesel	145	0.38		
LRI-Eastern - 7	CAT 980 Loader 7.5 CY	Grader	202	220	1	Diesel	285	0.41		
LRI-Eastern - 7	CAT CB-634D Vibratory 84"	Rollers	202	220	1	Diesel	315	0.38		
LRI-Eastern - 7	CAT D8 Dozer	Crawler Tractor	202	220	1	Diesel Tier 4 or Hybrid Diesel	179	0.43		
LRI-Eastern - 7	CAT Grader 16H	Grader	202	220	1	Diesel	285	0.41		
LRI-Eastern - 7	DMM Deep Soil Mixer	Bore Drill Rig	3547	220	16	Diesel	522	0.5		
LRI-Eastern - 7	DMM Grout Mix Plant	Other Industrial Equipmen	3547	220	16	Diesel	500	0.34		
LRI-Eastern - 7	Grove RT Crane 30T	Crane	3547	220	16	Diesel	160	0.29		
LRI-Eastern - 7	Hydraulic 9 Ton Crane	Crane	226.6	220	1	Diesel	85	0.29		
LRI-Eastern - 7	Portable 90 Kw Diesel	Generators	220	220	1	Diesel Tier 4	158	0.74		
LRI-Eastern - 8	CAT CB-634D Vibratory 84"	Rollers	3775.6	250	15	Diesel	145	0.38		
LRI-Eastern - 8	CAT D8 Dozer	Crawler Tractor	3775.6	250	15	Diesel	328	0.43		
LRI-Eastern - 8	CAT Grader 16H	Graders	3775.6	250	15	Diesel	285	0.41		
LRI-Eastern - 9	Hydraulic 9 Ton Crane	Crane	375	161	2	Diesel	85	0.29		
LRI-Eastern - 10	CAT Hyd Excavator 1CY	Excavator	9.6	18	1	Diesel	138	0.38		
LRI-Eastern - 10	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	9.6	18	1	Diesel or Hybrid	130	0.36		
LRI-Eastern - 11	1600 CFM Compressor Diesel	Air Compressor	508.1	85	6	Diesel Tier 4	540	0.48		
LRI-Eastern - 11	250 CFM Compressor Diesel	Air Compressor	30	85	0	Diesel Tier 3	75	0.48		
LRI-Eastern - 11	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	888	85	10	Diesel or Hybrid	130	0.36		
LRI-Eastern - 11	CAT Forklift 5,500 LB	Aerial Lift	16	85	0	Diesel	63	0.31		
LRI-Eastern - 11	CAT Hyd Excavator 1CY	Excavator	396	85	5	Diesel	138	0.38		
LRI-Eastern - 11	Hydraulic 40 Ton Crane	Crane	16	85	0	Diesel	300	0.29		
LRI-Eastern - 11	Hydraulic 55 Ton Crane	Crane	1016	85	12	Diesel	350	0.29		
LRI-Eastern - 11	Hydraulic 9 Ton Crane	Crane	16	85	0	Diesel	85	0.29		
LRI-Eastern - 11	Hydraulic Excavator to 3.5 tons = Kobe Excavator		380	85	4	Diesel	345	0.38		
LRI-Eastern - 11	Manitowoc 777 200 Ton Crane	Crane	1016	85	12	Diesel	760	0.29		
LRI-Eastern - 11	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	508	85	6	Diesel	8	0.56		
LRI-Eastern - 11	Slurry Wall Techniwell	Pumps	508	85	6	Diesel	500	0.74		
LRI-Eastern - 12	Manitowoc 777 200 Ton Crane	Crane	688	66	10	Diesel	760	0.29		
LRI-Eastern - 13	Hydraulic 25 Ton Crane	Crane	198.7	28	7	Diesel	100	0.29		
LRI-Eastern - 13	Hydraulic 40 Ton Crane	Crane	80	28	3	Diesel	300	0.29		
LRI-Eastern - 13	Manitowoc 777 200 Ton Crane	Crane	233	28	8	Diesel	760	0.29		
LRI-Eastern - 14	150 KW Diesel Generator	Generator	100	10	10	Diesel Tier 4	183	0.74		
LRI-Eastern - 14	Dewater Pump 6"	Pump	400	10	40	Diesel	50	0.74		
LRI-Eastern - 14	Hydraulic 15 Ton Crane	Crane	100	10	10	Diesel	85	0.29		
LRI-Eastern - 15	250 CFM Compressor Diesel	Air Compressor	21.3	9	2	Diesel Tier 3	75	0.48		
LRI-Eastern - 15	Manitowoc 777 200 Ton Crane	Crane	92.3	9	10	Diesel	760	0.29		
LRI-Eastern - 15	Trailer Conc Pump 100 CY HR	Pump	21.3	9	2	Diesel	200	0.74		
LRI-Eastern - 16	Manitowoc 777 200 Ton Crane	Crane	281.4	20	14	Diesel	760	0.29		
LRI-Eastern - 16	250 CFM Compressor Diesel	Air Compressor	281.4	20	14	Diesel Tier 3	75	0.48		
LRI-Eastern - 17	250 CFM Compressor Diesel	Air Compressor	680.4	60	11	Diesel Tier 3	75	0.48		
LRI-Eastern - 17	Manitowoc 777 200 Ton Crane	Crane	520.8	60	9	Diesel	760	0.29		
LRI-Eastern - 17	Manitowoc 999-275 Ton Crane	Crane	288	60	5	Diesel	900	0.29		
LRI-Eastern - 17	Trailer Conc Pump 100 CY HR	Pump	376.8	60	6	Diesel	200	0.74		
LRI-Eastern - 18	1600 CFM Compressor Diesel	Air Compressor	160	16	10	Diesel Tier 4	540	0.48		
LRI-Eastern - 18	Heavy Duty Mechanic Welder	Welder	160	16	10	Diesel	400	0.45		
LRI-Eastern - 18	Hydraulic 25 Ton Crane	Crane	160	16	10	Diesel	100	0.29		
LRI-Eastern - 18	Telescope RT Forklift 5500	Forklift	160	16	10	Diesel	63	0.2		
LRI-Eastern - 18	Truck Crane Lattice Boom 90T	Crane	160	16	10	Diesel Tier 4	300	0.29		
LRI-Eastern - 19	250 CFM Compressor Diesel	Air Compressor	2300	165	14	Diesel Tier 3	75	0.48		
LRI-Eastern - 19	Hydraulic 40 Ton Crane	Crane	900	165	5	Diesel	300	0.29		
LRI-Eastern - 20	250 CFM Compressor Diesel	Air Compressor	23455.6	1447	16	Diesel Tier 3	75	0.48		
LRI-Eastern - 20	CAT 980 Loader 7.5 CY	Grader	60700	1447	42	Diesel	285	0.41		
LRI-Eastern - 20	CAT Forklift 5,500 LB	Aerial Lift	73040	1447	50	Diesel	63	0.31		
LRI-Eastern - 20	Grout Mixer	Cement & Mortar Mix	1151.2	1447	1	Diesel	70	0.56		
LRI-Eastern - 20	Grout Pump	Cement & Mortar Mix	1151.2	1447	1	Diesel	500	0.56		

LRI-Eastern - 20	Hydraulic 40 Ton Crane	Crane	32084	1447	22	Diesel	300	0.29
LRI-Eastern - 20	Hydraulic 9 Ton Crane	Crane	22212	1447	15	Diesel	85	0.29
LRI-Eastern - 20	Manitowoc 777 200 Ton Crane	Crane	31516	1447	22	Diesel	760	0.29
LRI-Eastern - 21	1600 CFM Compressor Diesel	Air Compressor	100	53	2	Diesel Tier 4	540	0.48
LRI-Eastern - 21	CAT Forklift 5,500 LB	Aerial Lift	1020	53	19	Diesel	63	0.31
LRI-Eastern - 21	Heavy Duty Mechanic Welder	Welder	100	53	2	Diesel	400	0.45
LRI-Eastern - 21	Hydraulic 25 Ton Crane	Crane	100	53	2	Diesel	100	0.29
LRI-Eastern - 21	Hydraulic 55 Ton Crane	Crane	715	53	13	Diesel	350	0.29
LRI-Eastern - 21	Manitowoc 777 200 Ton Crane	Crane	715	53	13	Diesel	760	0.29
LRI-Eastern - 21	Truck Crane Lattice Boom 90T	Crane	100	53	2	Diesel Tier 4	300	0.29
LRI-Eastern - 21	Telescope RT Forklift 5500	Forklift	1170	53	22.1	Diesel	63	0.2
LRI-Eastern - 22	CAT 14 M	Grader	50	5	10	Diesel	274	0.41
LRI-Eastern - 22	Cat 613 C Self Loading Scraper	Scraper	100	5	20	Diesel	187	0.48
LRI-Eastern - 22	CAT CS-64, Roller, 15.7 tn, 156HP	Roller	50	5	10	Diesel	158	0.38
LRI-Eastern - 22	CAT D6LGPDozer w winch	Crawler Tractor	50	5	10	Diesel or Hybrid	179	0.43
LRI-Eastern - 23	CAT 12 M	Grader	50	142	0	Diesel	173	0.41
LRI-Eastern - 23	CAT 390 MASS EXC	Excavator	890	142	6	Diesel	534	0.38
LRI-Eastern - 23	Cat 6 mgal w/ CAT 725 Tractor, 320hp	Crawler Tractor	996.5	142	7	Diesel	320	0.43
LRI-Eastern - 23	CAT 631G Scraper, Conventional	Scraper	1720	142	12	Diesel	515	0.48
LRI-Eastern - 23	CAT 966 GII Wheel Loader	Rubber Tired Loader	20	142	0	Diesel	170	0.36
LRI-Eastern - 23	CAT D8Rii, Dozer w winch	Crawler Tractor	1720	142	12	Diesel	310	0.43
LRI-Eastern - 23	CAT D9R, Dozer w ripper	Crawler Tractor	180	142	1	Diesel	410	0.43
LRI-Eastern - 23	Disk, Towed	Off-Highway Tractor	163	142	1	Diesel	140	0.44
LRI-Eastern - 23	Farm Tractor, All Wheel Drive, 285 HP	Off-Highway Tractor	483	142	3	Diesel	80	0.44
LRI-Eastern - 23	Hydro Mulcher, 18 HP	Pump	250	142	2	Diesel	25	0.29
LRI-Eastern - 23	Kobelco SK48SLC, 2.75cy, 345 hp	Excavator	2390	142	17	Diesel	345	0.38

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Lower Roberts Island - Eastern Tunnel Shaft
Options 8A, 8B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
LRI-Eastern - 2	Water Pump, 4" Electrical, Submersible	15.7	20	1	0.159
LRI-Eastern - 7	Water Pump, 4" Electrical, Submersible	3547	220	1	0.159
LRI-Eastern - 19	Gantry Crane	11550	165	0.25	18
LRI-Eastern - 19	Axial Fan 114,000 CFM	2550	165	50	773
LRI-Eastern - 20	Axial Fan 114,000 CFM	211808	1447	50	7,319
LRI-Eastern - 21	Gantry Crane	1070	53	0.25	5

Electricity for TBM Operations included in the Summary Workbook

Vehicle Inventory for Lower Roberts Island - Eastern Tunnel Shaft
Options BA, 8B

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
LRI-Eastern - 1	Pickup, 1/2T, 2wd	Materials from Stockton	14	131.0	0.6	207	14.8	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 1	Truck, Flatbed, 10T, Hwy	Two Tractors, Grader, and Roller from and to Stockton	2	5.1	0.6	8	4.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 2	Truck, Flatbed, 10T, Hwy	Loader and Roller from and to Stockton	2	2.5	0.6	4	2.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 3	Truck, Flatbed, 10T, Hwy	Materials from Stockton	39	400.0	0.6	632	16.2	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 3	Truck, Flatbed, 10T, Hwy	Two Cranes and Forklift from and to Stockton	2	3.8	0.6	6	3.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 3	Truck, Flatbed, 10T, Hwy	Materials from Stockton	39	10.1	0.6	16	0.4	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 5	Truck, Flatbed, 10T, Hwy	Dozer and Grader from Stockton	1	1.3	0.6	2	2.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 5	Truck, Flatbed, 10T, Hwy	Scraper from and to Stockton	2	1.3	0.6	2	1.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 5	Truck, Flatbed, 10T, Hwy	Materials from Stockton	19	107.7	0.6	170	8.9	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 6	Truck, Flatbed, 10T, Hwy	Two Rollers and Grader from Stockton	1	3.8	0.6	6	6.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 7	Pickup 1/2T 2 WD	Materials from Stockton	230	3547.0	0.6	5601	25.5	Lower Roberts I shaft to/from Stockton	19	38	Hybrid Gasoline	
LRI-Eastern - 7	Truck Flatbed 4 T Highway	Materials from Stockton	220	3547.0	0.6	5601	25.5	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 7	Mechanic Truck	Materials from Stockton	220	3547.0	0.6	5601	25.5	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 7	Truck, Flatbed, 10T, Hwy	Grader and Roller to Stockton	1	1.3	0.6	2	2.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 7	Truck, Flatbed, 10T, Hwy	Two Cranes from and to Stockton	2	2.5	0.6	4	2.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 7	Truck Flatbed 4 T Highway	Rebar from Livermore	220	12.8	1.6	8	0.0	Lower Roberts I shaft to/from Livermore	48	96	Diesel	
LRI-Eastern - 7	Concrete Transit Mix Truck 12cy	Concrete from Stockton	220	376.8	0.6	595	2.7	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 8	Highway Dump Truck 18 CY	Materials from Stockton	250	3775.6	0.6	5961	23.8	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 8	Truck, Flatbed, 10T, Hwy	Tractor, Grader, and Roller to Stockton	1	3.8	0.6	6	6.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 10	Truck, Flatbed, 10T, Hwy	Excavator and Loader from Stockton	1	1.3	0.6	2	2.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 10	Concrete Transit Mix Truck 12cy	Concrete from Stockton	18	16.8	0.5	36	2.0	Lower Roberts I shaft to/from Lodi	14	28	Diesel	
LRI-Eastern - 10	Truck Flatbed 4 T Highway	Rebar from Livermore	18	1.6	1.6	1	0.1	Lower Roberts I shaft to/from Livermore	48	96	Diesel	
LRI-Eastern - 11	Truck, Flatbed, 10T, Hwy	Materials from Stockton	85	16.0	0.6	25	0.3	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 11	Truck, Flatbed, 10T, Hwy	Three Cranes and Forklifts from Stockton	1	1.9	0.6	3	3.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 11	Truck, Flatbed, 10T, Hwy	Excavator, Crane, and Loader to Stockton	1	1.9	0.6	3	3.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 11	Truck Flatbed 4 T Highway	Rebar from Livermore	85	113.6	1.6	71	0.8	Lower Roberts I shaft to/from Livermore	48	96	Diesel	
LRI-Eastern - 11	Concrete Transit Mix Truck 12cy	Concrete from Stockton	85	847.4	0.6	1388	15.7	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 11	Highway Dump Truck 18 CY	Shurry Wall Bentonite from Sacramento	85	311.7	1.8	170	2.0	Lower Roberts I shaft to/from Sacramento	55	110	Diesel	
LRI-Eastern - 11	Truck Flatbed 4 T Highway	Materials from Stockton	85	189.4	0.6	299	3.5	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 12	Concrete Transit Mix Truck 12cy	Concrete from Stockton	66	635.9	0.6	1004	15.2	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	0.6	0.6	1	1.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 13	Truck Flatbed 4 T Highway	Rebar from Livermore	28	24.0	1.6	15	0.5	Lower Roberts I shaft to/from Livermore	48	96	Diesel	
LRI-Eastern - 13	Concrete Transit Mix Truck 12cy	Concrete from Stockton	28	57.0	0.6	90	3.2	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 14	Truck, Flatbed, 10T, Hwy	Crane from and to Stockton	2	1.3	0.6	2	1.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 15	Truck Flatbed 4 T Highway	Rebar from Livermore	9	3.2	1.6	2	0.2	Lower Roberts I shaft to/from Livermore	48	96	Diesel	
LRI-Eastern - 15	Concrete Transit Mix Truck 12cy	Concrete from Stockton	9	57.0	0.6	90	10.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 16	Truck Flatbed 4 T Highway	Rebar from Livermore	20	8.0	1.6	5	0.3	Lower Roberts I shaft to/from Livermore	48	96	Diesel	
LRI-Eastern - 17	Truck, Flatbed, 10T, Hwy	Crane from and to Stockton	2	1.3	0.6	2	1.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 17	Concrete Transit Mix Truck 12cy	Concrete from Stockton	60	376.2	0.6	594	9.9	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 19	Highway Dump Truck 18 CY	Grout for Pre Cast Segments from Stockton	165	1075.4	0.6	1698	10.3	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 20	Truck, Flatbed, 10T, Hwy	Two Cranes and Grader to Stockton	2	3.8	0.6	6	3.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 20	Truck, Flatbed, 10T, Hwy	Materials from Stockton	1447	13493.2	0.6	21302	14.7	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 20	Truck, Flatbed, 10T, Hwy	Materials from Stockton	1447	6252.3	0.6	9872	6.8	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 20	Highway Dump Truck 18 CY	Grout for Pre Cast Segments from Stockton	1447	7368.2	0.6	11634	8.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 21	Truck, Flatbed, 10T, Hwy	Four Cranes and Forklift to Stockton	2	2.5	0.6	4	2.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 22	Pickup 1/2T 2 WD	Materials from Stockton	5	50.0	0.6	79	15.8	Lower Roberts I shaft to/from Stockton	19	38	Hybrid Gasoline	
LRI-Eastern - 22	Truck, Flatbed, 10T, Hwy	Dozer, Grader, Roller, and Scraper from and to Stockton	2	5.1	0.6	8	4.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 22	Highway Dump Truck 18 CY	Base Rock from Vernalis	5	75.6	0.9	81	16.2	Lower Roberts I shaft to/from Vernalis	28	56	Diesel	
LRI-Eastern - 23	Pickup 1/2T 2 WD	Materials from Stockton	142	1220.0	0.6	1926	13.6	Lower Roberts I shaft to/from Stockton	19	38	Hybrid Gasoline	
LRI-Eastern - 23	Truck, Flatbed, 10T, Hwy	Scraper, Two Excavators, Grader, Five Tractors, and Loader from and to Stockton	2	11.4	0.6	18	9.0	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
LRI-Eastern - 23	Truck Flatbed 4 T Highway	Materials from Stockton	142	14.6	0.6	23	0.2	Lower Roberts I shaft to/from Stockton	19	38	Diesel	
Vehicle Use on Unpaved/Dirty Surface (no access roads at park and ride lots) ---on the Construction Site												
LRI-Eastern - 1	Cat 10mgal w/Cat 770, 511HP	Dumpers	14	65.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		328	Diesel	
LRI-Eastern - 2	Truck End Dump, 10-13cy, Hwy	Dumpers	20	98.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		491	Diesel	
LRI-Eastern - 7	Concrete Pump Truck	Off-Highway Truck	220	464.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2320	Diesel	
LRI-Eastern - 10	CAT 730 Rear Dump	Dumper	18	155	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		775	Diesel or Hybrid	
LRI-Eastern - 11	CAT 730 Rear Dump	Dumper	85	579	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2896	Diesel or Hybrid	
LRI-Eastern - 11	Articulated Rear Dump 22 CY/CAT 730	Dumper	85	508.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2540	Diesel or Hybrid	
LRI-Eastern - 11	Concrete Pump Truck	Off-Highway Truck	85	1016.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		5080	Diesel	
LRI-Eastern - 23	CAT 740 40T, Articulated End dump	Dumper	142	610.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		3050	Diesel or Hybrid	
LRI-Eastern - 23	Truck, End Dump, 10-13cy, Hwy	Dumper	142	9360.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		46800	Diesel	

Employees Required to Lower Roberts Island - Eastern Tunnel Shaft
Options 8A, 8B

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
LRI-Eastern - 1	Laborer G2 General	15.72	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 1	OPERATING ENGINEER FOREMAN	131	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 1	Operator G2 Finish Blade	65.5	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 1	Operator G4 Dozer & Push Cat	131	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 1	Operator G5 Compactor w-blade	131	10		Stockton to/from Lower Roberts I Shaft	14
	Teamster G3 ED 8-24cy,	65.5				14
LRI-Eastern - 1	Water>7mgal		10		Stockton to/from Lower Roberts I Shaft	
TOTAL LRI-Eastern-1		539.72				
LRI-Eastern - 2	Laborer G1 Pipe layers	196.5	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 2	Laborer G1 Power Tamper	98.25	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 2	Operator G3 BH-Loader>3/4cy	49.13	10		Stockton to/from Lower Roberts I Shaft	14
	Teamster G2 Hwy ED 6-8cy,	98.25				14
LRI-Eastern - 2	Water<7mgal		10		Stockton to/from Lower Roberts I Shaft	
TOTAL LRI-Eastern-2		442.13				
LRI-Eastern - 3	Bullgang Foreman	400	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 3	Bullgang Laborer	800	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 3	Mechanic / Welder	400	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 3	Hyd Crane Operator	800	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 3	Flat Truck Driver	400	10		Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-3		2800				
LRI-Eastern - 4	Accountant	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Concrete Superintendent	7360	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Cost Engineer	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Electrical Superintendent	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	EMT	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Environmental Manager	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Equipment Superintendent	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Field Engineer	11040	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	General Superintendent	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Geotechnical Manager	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Office Administrator	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Office Manager	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Payroll Clerk	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Project Engineer	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Project Manager	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Purchasing Agent	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	QC Manager	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	QC Technician	7360	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Runner	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Safety Engineer	29440	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Safety Manager	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Schedule Engineer	7360	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Shift Engineers	29440	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Survey Party Chief	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Survey Rod Man	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Tunnel Superintendent	14720	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 4	Tunnel Walkers	29440	10		Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-4		415840				
LRI-Eastern - 5	Dozer Operator	1015.76	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 5	General Foreman	507.88	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 5	Grader Operator	1015.76	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 5	Operator G4 Grade Check	1015.76	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 5	Scraper Operator	507.88	10		Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-5		4063.04				
LRI-Eastern - 6	Compactor Operator	240	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 6	Dozer Operator	120	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 6	Flagger	240	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 6	General Foreman	120	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 6	General Laborer	240	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 6	Grade Setter / Checker	120	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 6	Grader Operator	120	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 6	Loader Operator	120	10		Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-6		1320				
LRI-Eastern - 7	Carpenter	1080.4	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Carpenter Foreman	154.1	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Compactor Operator	404	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Dozer Operator	202	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Flagger	404	10		Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	General Foreman	202	10		Stockton to/from Lower Roberts I Shaft	14

LRI-Eastern - 7	General Laborer	900.7	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Grade Setter / Checker	202	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Grader Operator	202	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Hyd Crane Operator	226.8	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Iron Worker	1885	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Iron Worker Foreman	188.5	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Laborer G2 General	10641	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Loader Operator	202	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Operating Engineer	3547	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Operator G2 Plant Operator	7094	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Operator G3 BH Loader	3547	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Operator G3a Crane	3547	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Operator G4 Grade Check	3547	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Operator G4 Heavy Duty Mechanic	3547	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Teamster G1 Hwy	3547	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Teamster G2 Hwy	3547	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 7	Truck Driver	464	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-7		49281.5			
LRI-Eastern - 8	Compactor Operator	3775.6	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 8	Dozer Operator	3775.6	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 8	Grade Setter / Checker	3775.6	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 8	Grader Operator	3775.6	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 8	Truck Driver	3775.6	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-8		18878			
LRI-Eastern - 9	Carpenter	812	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 9	Carpenter Foreman	133	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 9	General Laborer	578	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 9	Hyd Crane Operator	375	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 9	Iron Worker	3120	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 9	Iron Worker Foreman	312	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 9	Truck Driver	280	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-9		5610			
LRI-Eastern - 10	Carpenter	684	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 10	Carpenter Foreman	171	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 10	Excavator Operator	9.6	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 10	General Laborer	16	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 10	Lead Miner	9.6	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 10	Loader Operator	9.6	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 10	Miner	9.6	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 10	Shifter	9.6	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 10	Truck Driver	152.9	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-10		1071.9			
LRI-Eastern - 11	Bullgang Foreman	16	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Bullgang Laborer	32	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Carpenter	84.9	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Carpenter Foreman	21.2	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Crane Oiler	1016	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Excavator Operator	396	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Flat Truck Driver	16	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	General Foreman	1396	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	General Laborer	6788.8	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Hyd Crane Operator	1048	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Iron Worker	1034.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Iron Worker Foreman	1034.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Lead Miner	508	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Loader Operator	888	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Mechanic Welder	1032	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Miner	4064	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Shaft Crane Operator	1016	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Shifter	1524	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 11	Truck Driver	579.1	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-9		22494.6			
LRI-Eastern - 12	Shaft Crane Operator	688	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 12	Toplander	688	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 12	Crane Oiler	688	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-12		2064			
LRI-Eastern - 13	Bottomlander	233	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 13	Hyd Crane Operator	278.7	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 13	Iron Worker	2504	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 13	Iron Worker Foreman	313	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 13	Lead Miner	49.7	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 13	Miner	1023.3	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 13	Shaft Crane Operator	233	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 13	Shifter	362.7	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 13	Toplander	553	24	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-13		5550.4			
LRI-Eastern - 14	Shifter	100	24	Stockton to/from Lower Roberts I Shaft	14

LRI-Eastern - 14	Lead Miner	100	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 14	Miner	800	24	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 14	Hyd Crane Operator	100	24	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-14		1100			
LRI-Eastern - 15	Crane Oiler	92.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Electrician	21.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Iron Worker	568	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Iron Worker Foreman	71	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Lead Miner	21.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Mechanic Welder	21.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Miner	312.4	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Shaft Crane Operator	92.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Shifter	92.3	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 15	Toplander	92.3	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-15		1384.5			
LRI-Eastern - 16	Bottomlander	281.4	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 16	Crane Oiler	281.4	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 16	Iron Worker	2251.5	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 16	Iron Worker Foreman	281.4	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 16	Shaft Crane Operator	281.4	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 16	Toplander	281.4	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-16		3658.5			
LRI-Eastern - 17	Bottomlander	520.8	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Concrete Pump Operator	324.8	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Crane Oiler	756.8	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Electrician	128	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Lead Miner	808.8	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Mechanic Welder	484	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Miner	6470	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Shaft Crane Operator	808.8	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Shifter	808.8	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Toplander	808.8	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 17	Truck Driver	12513	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-17		24432.6			
LRI-Eastern - 18	Bullgang Foreman	160	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 18	Bullgang Laborer	960	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 18	Mechanic / Welder	160	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 18	Master Mechanic	480	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 18	Shaft Crane Operator	160	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 18	Crane Oiler	160	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 18	Electrician	160	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 18	Hyd Crane Operator	160	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-18		2400			
LRI-Eastern - 19	Bottomlander	1150	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Conveyor Belt Man	1000	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Crane Oiler	1150	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Electrician	3650	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Hyd Crane Operator	900	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Lead Miner	2550	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Mechanic / Welder	3650	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Miner	17100	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Segment Carrier Operator	2400	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Shaft Crane Operator	1150	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Shifter	2550	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	ST2G Mucker Operator	400	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	TBM Operator	3200	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 19	Toplander	1150	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-19		42000			
LRI-Eastern - 20	Bottomlander	204048.4	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Bullgang Foreman	37595.6	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Bullgang Laborer	125702.3	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Conveyor Belt Man	36454	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Crane Oiler	66768.4	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Electrician	51326.7	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	General Laborer	60700	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Lead Miner	36454	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Loader Operator	60700	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Man Transport Truck Operator	25831.2	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Master Mechanic	12372.4	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Mechanic / Welder	76039.1	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Miner	202540.7	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Segment Carrier Operator	190240	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Shaft Crane Operator	66768.4	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Shifter	58098	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	TBM Operator	76044	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Toplander	66768.4	20	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 20	Utility Truck Operator	25831.2	20	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-20		1480282.8			

LRI-Eastern - 21	Bottomlander	1785	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Bullgang Foreman	100	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Bullgang Laborer	600	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Crane Oiler	1415	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Electrician	2600	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Forklift Operator	1070	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Hyd Crane Operator	915	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Lead Miner	1785	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Master Mechanic	300	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Mechanic / Welder	2600	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Miner	8980	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Shaft Crane Operator	1885	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Shifter	1785	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Toplander	1785	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 21	Utility Truck Operator	1020	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-21		28625			
LRI-Eastern - 22	Laborer G2 General	50	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 22	OPERATING ENGINEER FOREMAN	50	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 22	Operator G2 Finish Blade	50	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 22	Operator G4 Dozer & Push Cat	50	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 22	Operator G4 Grade Check	50	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 22	Operator G4 Scraper	100	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 22	Operator G7 Roller, Compactor	50	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 22	Teamster G2 Hwy ED 6-8cy, Water<7	50	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-22		450			
LRI-Eastern - 23	Laborer G2 Concrete Laborer	1830	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Laborer G2 General	520	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Laborer G3 Flagman	1760	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	OPERATING ENGINEER FOREMAN	1396.5	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Operator G2 Excavator 3.5 to 7.0 cy	3000	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Operator G2 Finish Blade	50	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Operator G3 Loader >4cy	910	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Operator G4 Dozer & Push Cat	1900	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Operator G4 Scraper	1720	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Operator G6 Tractor	483	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Teamster G2 Hwy ED 6-8cy, Water<7	10346.5	10	Stockton to/from Lower Roberts I Shaft	14
LRI-Eastern - 23	Teamster G4 ED 25-65 Cy	610	10	Stockton to/from Lower Roberts I Shaft	14
TOTAL LRI-Eastern-23		24526			

Marine Inventory for Lower Roberts Island - Eastern Tunnel Shaft
Options 8A, 8B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Lower Roberts Island - Eastern Tunnel Shaft
Options 8A, 8B

Code	# day	Locomotive Type	From Depot Site	Delivery Depot	Rail Cars	Rail Cars/Day	Main Railroad	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (If known)
LRI-Eastern - 19	165	Pre Cast Segment	Stockton	Lower Roberts Island Sidetrack	134	0.81	UPRR & BNSF						
LRI-Eastern - 20	1447	Pre Cast Segment	Stockton	Lower Roberts Island Sidetrack	4291	2.97	UPRR & BNSF						

**Helicopter Inventory for Lower Roberts Island - Eastern Tunnel Shaft
Options 8A, 8B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Lower Roberts Island - Eastern Tunnel Shaft
Options 8A, 8B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
LRI-Eastern - 1	407	14	29.1			31440	2246				
LRI-Eastern - 5		19		255972.6	13472						
LRI-Eastern - 6	7.35	20	0.4								
LRI-Eastern - 7	11.6	220	0.1								
LRI-Eastern - 8		250				166148	665				
LRI-Eastern - 10		18		635	35						
LRI-Eastern - 11		85		12708	150						
LRI-Eastern - 12		66		75675	1147						
LRI-Eastern - 23	15.75	142	0.1								

**Demolition Assumptions for Lower Roberts Island - Eastern Tunnel Shaft
Options 8A, 8B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Upper Jones Tract - Eastern Access Road

Options 2A, 2B, 6A, 6B, 8A, 8B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX G - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	UJ-E Access -1	4/21/2026	4/21/2026	1	1	10
Embankment	UJ-E Access -2	4/22/2026	4/23/2026	2	2	10
Culvert Pipe	UJ-E Access -3	4/24/2026	4/24/2026	1	1	10
Subdrain System	UJ-E Access -4	4/27/2026	5/4/2026	6	5	10
Road Base	UJ-E Access -5	5/5/2026	5/11/2026	5	5	10
KRail and Signs	UJ-E Access -6	5/12/2026	5/12/2026	1	1	10
12-month - Intermediate Maintenance	UJ-E Access -7	4/4/2028	4/14/2028	9	5	10
12-month - Final Maintenance	UJ-E Access -8	4/4/2029	4/14/2029	9	5	10

Acres

2.2

Construction Schedule for Upper Jones - Eastern Tunnel Shaft						
Options 8A, 8B						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Clear and Grub	UJ-Eastern - 1	10/4/2030	10/25/2030	16	5	10
Ground Improvement	UJ-Eastern - 2	11/15/2030	12/20/2030	26	5	10
Raise Shaft Pad	UJ-Eastern - 3	12/20/2030	12/19/2031	261	5	10
Excavate, Set Strips, & Place Guide Wall	UJ-Eastern - 4	12/19/2031	1/6/2032	15	5	10
Place Guide Walls Concrete	UJ-Eastern - 5	1/6/2032	1/8/2032	3	5	10
Excavate Slurry Wall & Place Concrete & Rebar	UJ-Eastern - 6	1/8/2032	2/17/2032	52	7	24
Slurry Wall including Strip Forms and Place Rebar & Top Beam	UJ-Eastern - 7	2/17/2032	3/26/2032	38	7	24
Excavate Shaft	UJ-Eastern - 8	3/31/2032	5/10/2032	41	7	24
Place Tremie Seal Rebar, Cooling Pipes, & Seal	UJ-Eastern - 9	5/10/2032	5/24/2032	15	7	24
Dewater Shaft	UJ-Eastern - 10	5/24/2032	5/31/2032	8	7	24
Place TBM Cradle Rebar and Cradle Pour	UJ-Eastern - 11	5/31/2032	6/8/2032	7	5	10
Breakout Slurry Wall for TBM	UJ-Eastern - 12	6/8/2032	7/5/2032	20	5	10
Assemble & Place Buttress, Form, & Concrete for Shaft Liner	UJ-Eastern - 13	6/8/2032	8/31/2032	61	5	10
Place Shaft Cover	UJ-Eastern - 14	8/31/2032	9/8/2032	7	5	10
Total Site Acres	13.1					

**Offroad Equipment (Fossil Fuel) Inventory for Upper Jones - Eastern Tunnel Shaft
Options 8A, 8B**

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if known)	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
UJ-Eastern - 1	CAT D8 Dozer	Crawler Tractor	29.16	29	1	Diesel Tier 4 or Hybrid Diesel	179	0.43		
UJ-Eastern - 1	CAT Grader 16H - 16' Blade	Grader	29.16	29	1	Diesel	285	0.41		
UJ-Eastern - 1	623G Scraper Elevate 21 CY	Scraper	58.32	58	1	Diesel	359	0.48		
UJ-Eastern - 2	Air Compressor 375 CFM	Air Compressor	208	26	8	Diesel Tier 4	122	0.48		
UJ-Eastern - 2	Case 590 SupN Loader	Rubber Tired Loaders	208	26	8	Diesel	110	0.29		
UJ-Eastern - 2	DMM Deep Soil Mixer	Trencher	208	26	8	Diesel	808	0.5		
UJ-Eastern - 2	DMM Grout Mix Plant	Other Industrial Equipmen	208	26	8	Diesel	500	0.34		
UJ-Eastern - 2	Grove RT Crane 30T	Crane	208	26	8	Diesel	160	0.74		
UJ-Eastern - 2	Portable 90 Kw Diesel	Generators	20	26	1	Diesel Tier 4	158	0.36		
UJ-Eastern - 2	Water Pump 4" Electric	Pumps	20	26	1	Diesel	10	0.74		
UJ-Eastern - 3	CAT CB-634D Vibratory 84"	Rollers	1394.2	261	5	Diesel	145	0.38		
UJ-Eastern - 3	CAT Grader 16H	Graders	1394.2	261	5	Diesel	285	0.41		
UJ-Eastern - 3	CAT D8 Dozer	Crawler Tractor	1394.2	261	5	Diesel	328	0.43		
UJ-Eastern - 4	CAT Hyd Excavator 1CY	Excavator	5.9	15	0	Diesel	138	0.38		
UJ-Eastern - 4	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	5.9	15	0	Diesel or Hybrid	130	0.36		
UJ-Eastern - 6	1600 CFM Compressor Diesel	Air Compressor	243	52	5	Diesel Tier 4	540	0.48		
UJ-Eastern - 6	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	243	52	5	Diesel or Hybrid	130	0.36		
UJ-Eastern - 6	Hydraulic 55 Ton Crane	Crane	243	52	5	Diesel	350	0.29		
UJ-Eastern - 6	Manitowoc 777 200 Ton Crane	Crane	311	52	6	Diesel	760	0.29		
UJ-Eastern - 6	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	243	52	5	Diesel	8	0.56		
UJ-Eastern - 6	Slurry Wall Techniwell	Pumps	243	52	5	Diesel	500	0.74		
UJ-Eastern - 7	CAT 950 Loader 4.5 CY	Rubber Tired Loaders	240.3	38	6	Diesel or Hybrid	130	0.36		
UJ-Eastern - 7	250 CFM Compressor Diesel	Air Compressor	3.6	38	0.1	Diesel Tier 3	75	0.48		
UJ-Eastern - 7	CAT Hyd Excavator 1CY	Excavator	240.3	38	6	Diesel	138	0.38		
UJ-Eastern - 8	Manitowoc 777 200 Ton Crane	Crane	187.1	41	5	Diesel	760	0.29		
UJ-Eastern - 9	Manitowoc 777 200 Ton Crane	Crane	99.9	15	7	Diesel	760	0.29		
UJ-Eastern - 9	Hydraulic 40 Ton Crane	Crane	32.4	15	2	Diesel	300	0.29		
UJ-Eastern - 9	Hydraulic 25 Ton Crane	Crane	68.8	15	5	Diesel	100	0.29		
UJ-Eastern - 10	Dewater Pump 6"	Pump	360	8	45	Diesel	50	0.74		
UJ-Eastern - 10	150 KW Diesel Generator	Generator	90	8	11	Diesel Tier 4	183	0.74		
UJ-Eastern - 10	Hydraulic 15 Ton Crane	Crane	90	8	11	Diesel	100	0.29		
UJ-Eastern - 11	Manitowoc 777 200 Ton Crane	Crane	31.7	7	5	Diesel	760	0.29		
UJ-Eastern - 11	250 CFM Compressor Diesel	Air Compressor	7.4	7	1	Diesel Tier 3	75	0.48		
UJ-Eastern - 11	Trailer Conc Pump 100 CY HR	Pump	7.4	7	1	Diesel	200	0.74		
UJ-Eastern - 12	250 CFM Compressor Diesel	Air Compressor	106.8	20	5	Diesel Tier 3	75	0.48		
UJ-Eastern - 12	Manitowoc 777 200 Ton Crane	Crane	106.8	20	5	Diesel	760	0.29		
UJ-Eastern - 13	250 CFM Compressor Diesel	Air Compressor	445.7	61	7	Diesel Tier 3	75	0.29		
UJ-Eastern - 13	Hydraulic 9 Ton Crane	Crane	54	61	1	Diesel	85	0.48		
UJ-Eastern - 13	Manitowoc 777 200 Ton Crane	Crane	91.8	61	2	Diesel	760	0.74		
UJ-Eastern - 13	Manitowoc 999-275 Ton Crane	Crane	115.5	61	2	Diesel	900	0.29		
UJ-Eastern - 13	Trailer Conc Pump 100 CY HR	Pump	289	61	5	Diesel	200	0.29		
UJ-Eastern - 14	Hydraulic 9 Ton Crane	Crane	45	7	6	Diesel	85	0.29		
UJ-Eastern - 14	Hydraulic 40 Ton Crane	Crane	45	7	6	Diesel	300	0.29		
UJ-Eastern - 14	CAT Forklift 5,500 LB	Aerial Lift	45	7	6	Diesel	63	0.31		

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Offroad Equipment (Electric) Inventory for Upper Jones - Eastern Tunnel Shaft
Options 8A, 8B

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
UJ-Eastern - 2	Water Pump 4" Electric	492	26	1	0.159
UJ-Eastern - 13	Axial Fan 114,000 CFM	54	61	50	44

Vehicle Inventory for Upper Jones - Eastern Tunnel Shaft
Options BA, 88

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs. offsite)	# day	Vehicle Hours	Hours/trip	# of Vehicles trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/day) (if known)
Vehicle Use on Paved Roads --- and Not on Construction Site												
UJ-Eastern - 1	Truck, Flatbed, 10T, Hwy	Scraper to and from Stockton	2	0.9	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 1	Truck, Flatbed, 10T, Hwy	Dozer and Grader from Stockton	1	0.9	0.4	2	2.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 2	Pickup 1/2T 2 WD	Materials from Stockton	26	492.0	0.4	1135	44	Upper Jones Shaft to/from Stockton	13	26	Hybrid Gasoline	
UJ-Eastern - 2	Truck Flatbed 4 T Highway	Materials from Stockton	26	492.0	0.4	1135	44	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 2	Mechanic Truck	Materials from Stockton	26	492.0	0.4	1135	44	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 2	Truck, Flatbed, 10T, Hwy	Crane, Loader, & Other Equipment to and from Stockton	2	2.6	0.4	6	3.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 3	Highway Dump Truck 18 CY	Materials from Stockton	261	1394.2	0.4	3217	12	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 3	Truck/ End Dump/ 16-20cy/ Hwy	Soil Material in Covered Trucks from Lower Roberts Launch Shaft	261	2153.0	0.5	4306	16	Upper Jones Shaft to/from Lower Roberts Launch Shaft	15	30	Diesel	
UJ-Eastern - 3	Truck, Flatbed, 10T, Hwy	Roller to and from Stockton	2	0.9	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 3	Truck, Flatbed, 10T, Hwy	Dozer and Grader to Stockton	1	0.9	0.4	2	2.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 3	Truck, Flatbed, 10T, Hwy	Materials from Stockton	261	43.8	0.4	101	0.4	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 4	Truck, Flatbed, 10T, Hwy	Excavator and Loader from Stockton	1	0.9	0.4	2	2.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 4	Truck Flatbed 4 T Highway	Rebar from Livermore	15	1.3	1.3	1	0	Upper Jones Shaft to/from Livermore	38	76	Diesel	
UJ-Eastern - 4	Concrete Transit Mix Truck* 12cy	Concrete from Stockton	15	10.0	0.4	23	2	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 6	Highway Dump Truck 18 CY	Slurry Wall Bentonite from Sacramento	52	352.0	2.0	176	3	Upper Jones Shaft to/from Sacramento	60	120	Diesel	
UJ-Eastern - 6	Truck Flatbed 4 T Highway	Rebar from Livermore	52	35.5	1.3	28	1	Upper Jones Shaft to/from Livermore	38	76	Diesel	
UJ-Eastern - 6	Concrete Transit Mix Truck* 12cy	Concrete from Stockton	52	277.3	0.4	640	12	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	0.9	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 6	Truck, Flatbed, 10T, Hwy	Crane from Stockton	1	0.4	0.4	1	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 7	Truck, Flatbed, 10T, Hwy	Excavator and Loader to Stockton	1	0.9	0.4	2	2.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 7	Truck Flatbed 4 T Highway	Rebar from Livermore	38	1.3	1.3	1	0	Upper Jones Shaft to/from Livermore	38	76	Diesel	
UJ-Eastern - 7	Concrete Transit Mix Truck* 12cy	Concrete from Stockton	38	4.8	0.4	11	0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 9	Truck Flatbed 4 T Highway	Rebar from Livermore	15	8.9	1.3	7	0	Upper Jones Shaft to/from Livermore	38	76	Diesel	
UJ-Eastern - 9	Concrete Transit Mix Truck* 12cy	Concrete from Stockton	15	188.9	0.4	436	29	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 9	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	0.9	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 9	Truck, Flatbed, 10T, Hwy	Cranes from Stockton	1	0.4	0.4	1	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 10	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	0.9	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 11	Truck Flatbed 4 T Highway	Rebar from Livermore	7	1.3	1.3	1	0.1	Upper Jones Shaft to/from Livermore	38	76	Diesel	
UJ-Eastern - 11	Concrete Transit Mix Truck* 12cy	Concrete from Stockton	7	13.9	0.4	32	5	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 12	Truck Flatbed 4 T Highway	Rebar from Livermore	20	2.5	1.3	2	0.1	Upper Jones Shaft to/from Livermore	38	76	Diesel	
UJ-Eastern - 13	Concrete Transit Mix Truck* 12cy	Concrete from Stockton	61	142.6	0.4	329	5	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	0.4	0.4	1	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 13	Truck, Flatbed, 10T, Hwy	Crane to and from Stockton	2	0.9	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 14	Truck, Flatbed, 10T, Hwy	Forklift to and from Stockton	2	0.9	0.4	2	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 14	Truck, Flatbed, 10T, Hwy	Materials from Stockton	7	45.0	0.4	104	15	Upper Jones Shaft to/from Stockton	13	26	Diesel	
UJ-Eastern - 14	Truck, Flatbed, 10T, Hwy	Crane to Stockton	1	0.4	0.4	1	1.0	Upper Jones Shaft to/from Stockton	13	26	Diesel	
Vehicle Use on Unpaved/Dirt Surface (no access roads at park and ride lots) --- on the Construction Site										Miles On-Site		
UJ-Eastern - 4	CAT 730 Rear Dump	Dumper	15	18.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		90	Diesel or Hybrid	
UJ-Eastern - 6	CAT 730 Rear Dump	Dumper	52	258.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1291	Diesel or Hybrid	
UJ-Eastern - 6	Articulated Rear Dump 22 CY/CAT 730	Dumper	52	226.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1133	Diesel or Hybrid	
UJ-Eastern - 6	Concrete Pump Truck	Off-Highway Truck	52	486.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2430	Diesel	

Employees Required to Upper Jones - Eastern Tunnel Shaft
Options 8A, 8B

Code	Employee Type	Hours	# WorkDay		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
UJ-Eastern - 1	Dozer Operator	29.16	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 1	General Foreman	14.58	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 1	Grader Operator	29.16	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 1	Operator G4 Grade Check	14.58	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 1	Scraper Operator	58.32	10		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-1		145.8				
UJ-Eastern - 2	Laborer G2 General	1476	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 2	Operator G3a Crane	492	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 2	Operator G3 BH Loader	492	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 2	Operating Engineer	492	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 2	Operator G4 Grade Check	492	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 2	Operator G4 Heavy Duty Mechanic	492	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 2	Operator G2 Plant Operator	984	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 2	Teamster G1 Hwy	492	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 2	Teamster G2 Hwy	492	10		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-2		5904				
UJ-Eastern - 3	Grade Setter / Checker	1394.2	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 3	Water Truck Highway	1394.2	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 3	Compactor Operator	1394.2	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 3	Dozer Operator	1394.2	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 3	Grader Operator	1394.2	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 3	Truck Driver	1394.2	10		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-3		8365.2				
UJ-Eastern - 4	Carpenter	347.8	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 4	Carpenter Foreman	86.9	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 4	Excavator Operator	5.9	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 4	Lead Miner	5.9	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 4	Loader Operator	5.9	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 4	Miner	5.9	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 4	Shifter	5.9	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 4	Truck Driver	17.5	10		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-4		481.7				
UJ-Eastern - 5	General Laborer	10.7	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 5	Carpenter	93.4	10		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 5	Carpenter Foreman	23.4	10		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-5		127.5				
UJ-Eastern - 6	Crane Oiler	469.5	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	General Foreman	469.5	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	General Laborer	2590.6	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Hyd Crane Operator	486	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Iron Worker	2430	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Iron Worker Foreman	486	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Lead Miner	243	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Loader Operator	243	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Mechanic Welder	469.5	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Miner	1944	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Shaft Crane Operator	469.5	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Shifter	729	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Slurry Wall Consultant	243	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 6	Truck Driver	243	24		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-6		11515.6				
UJ-Eastern - 7	Carpenter	36	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 7	Carpenter Foreman	9	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 7	Excavator Operator	240.3	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 7	General Foreman	240.3	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 7	General Laborer	750.3	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 7	Iron Worker	45.7	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 7	Iron Worker Foreman	11.4	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 7	Loader Operator	240.3	24		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-7		1573.3				
UJ-Eastern - 8	Shaft Crane Operator	187.1	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 8	Toplander	187.1	24		Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 8	Crane Oiler	187.1	24		Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-8		561.3				
UJ-Eastern - 9	Bottomlander	99.9	24		Stockton to/from Upper Jones Shaft	13

UJ-Eastern - 9	Hyd Crane Operator	101.2	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 9	Iron Worker	1058.4	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 9	Iron Worker Foreman	132.3	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 9	Lead Miner	17.2	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 9	Miner	402.3	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 9	Shaft Crane Operator	99.9	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 9	Shifter	149.5	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 9	Toplander	229.5	24	Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-9		2290.2			
UJ-Eastern - 10	Shifter	90	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 10	Lead Miner	90	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 10	Miner	720	24	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 10	Hyd Crane Operator	90	24	Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-10		990			
UJ-Eastern - 11	Crane Oiler	31.7	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Electrician	7.4	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Iron Worker	194.4	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Iron Worker Foreman	24.3	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Lead Miner	7.4	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Mechanic Welder	7.4	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Miner	107.6	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Shaft Crane Operator	31.7	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Shifter	31.7	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 11	Toplander	31.7	10	Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-11		475.3			
UJ-Eastern - 12	Bottomlander	106.8	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 12	Crane Oiler	106.8	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 12	Iron Worker	854.4	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 12	Iron Worker Foreman	106.8	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 12	Shaft Crane Operator	106.8	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 12	Toplander	106.8	10	Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-12		1388.4			
UJ-Eastern - 13	Bottomlander	92	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Concrete Pump Operator	57.9	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Crane Oiler	161	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Electrician	238.4	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Hyd Crane Operator	54	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Lead Miner	445.7	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Mechanic / Welder	387.8	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Miner	3475.4	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Shaft Crane Operator	207	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Shifter	445.7	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 13	Toplander	207	10	Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-13		5771.8			
UJ-Eastern - 14	Bullgang Foreman	45	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 14	Bullgang Laborer	90	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 14	Mechanic / Welder	45	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 14	Hyd Crane Operator	90	10	Stockton to/from Upper Jones Shaft	13
UJ-Eastern - 14	Flat Truck Driver	45	10	Stockton to/from Upper Jones Shaft	13
TOTAL UJ-Eastern-14		315			

Marine Inventory for Upper Jones - Eastern Tunnel Shaft
Options 8A, 8B

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Upper Jones - Eastern Tunnel Shaft
Options 8A, 8B

Code	Locomotive Type	Depot Site	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
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NOT NEEDED

**Helicopter Inventory for Upper Jones - Eastern Tunnel Shaft
Options 8A, 8B**

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
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NOT NEEDED

Earthmoving/Paving Assumptions for Upper Jones - Eastern Tunnel Shaft
Options 8A, 8B

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
UJ-Eastern - 1	13.1	16	1								
UJ-Eastern - 3		261				61358.6	235				

**Demolition Assumptions for Upper Jones - Eastern Tunnel Shaft
Options 8A, 8B**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

Construction Schedule for Bethany Park and Ride

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Excavation	BethanyPR-1	10/29/2026	11/3/2026	5	5	10
Culvert Pipe	BethanyPR-2	11/4/2026	11/4/2026	1	1	10
Subdrain System	BethanyPR-3	11/5/2026	11/5/2026	1	1	10
Road Base	BethanyPR-4	11/6/2026	11/9/2026	4	4	10
Asphalt Paving	BethanyPR-5	11/10/2026	11/11/2026	2	2	10
Electrical, Striping, and K-Rail Installation	BethanyPR-6	11/12/2026	11/12/2026	1	1	10

Acres

2.6

Construction Schedule for Byron Park and Ride

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	BPR -1	8/18/2026	9/4/2026	13	5	10
Embankment	BPR -2	9/7/2026	9/8/2026	2	2	10
Culvert Pipe	BPR -3	9/9/2026	9/14/2026	3	3	10
Subdrain System	BPR -4	9/15/2026	9/21/2026	5	5	10
Road Base	BPR -5	9/22/2026	10/8/2026	12	5	10
Asphalt Paving	BPR -6	10/9/2026	10/23/2026	10	5	10
Electrical, Striping, and K-Rail Installation	BPR -7	10/26/2026	10/29/2026	3	3	10

Acres

2.91

Construction Schedule for Bruns Complex Rds - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	BrCmplxRd-C&E Access -1	3/12/2027	3/15/2027	4	4	10
Embankment	BrCmplxRd-C&E Access -2	3/16/2027	3/16/2027	1	1	10
Culvert Pipe	BrCmplxRd-C&E Access -3	3/17/2027	3/17/2027	1	1	10
Bridge over Byron Highway	BrCmplxRd-C&E Access -4	3/17/2027	6/1/2027	54	5	10
Subdrain System	BrCmplxRd-C&E Access -5	3/18/2027	3/22/2027	5	5	10
Road Base	BrCmplxRd-C&E Access -6	3/23/2027	3/24/2027	2	2	10
Asphalt Paving	BrCmplxRd-C&E Access -7	6/2/2027	6/3/2027	2	2	10
KRail and Signs	BrCmplxRd-C&E Access -8	6/4/2027	6/4/2027	1	1	10
Intermediate Overlay	BrCmplxRd-C&E Access -9	5/13/2030	5/14/2030	2	2	10
Final Overlay	BrCmplxRd-C&E Access -10	6/29/2037	7/1/2037	3	3	10

Acres

5.3

Construction Schedule for Discovery Bay Rd Extension - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	DBExt-C&E Access -1	11/10/2026	11/13/2026	4	4	10
Embankment	DBExt-C&E Access -2	11/16/2026	11/20/2026	5	5	10
Culvert Pipe	DBExt-C&E Access -3	11/23/2026	11/24/2026	2	2	10
Subdrain System	DBExt-C&E Access -4	11/25/2026	12/7/2026	10	5	10
Road Base	DBExt-C&E Access -5	12/8/2026	12/22/2026	11	5	10
Asphalt Paving	DBExt-C&E Access -6	12/23/2026	12/30/2026	6	5	10
KRail and Signs	DBExt-C&E Access -7	12/31/2026	12/31/2026	1	1	10
Intermediate Overlay	DBExt-C&E Access -8	5/7/2030	5/8/2030	2	2	10
Final Overlay	DBExt-C&E Access -9	6/8/2037	6/10/2037	3	3	10

Acres

4.6

Construction Schedule for Western Farm Rd - Central & Eastern Access Road

Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B,10A, 10B

THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Roadway Excavation	WFRd-C&E Access -1	10/9/2026	10/14/2026	5	5	10
Embankment	WFRd-C&E Access -2	10/15/2026	10/19/2026	5	5	10
Culvert Pipe	WFRd-C&E Access -3	10/20/2026	10/20/2026	1	1	10
Subdrain System	WFRd-C&E Access -4	10/21/2026	10/27/2026	5	5	10
Road Base	WFRd-C&E Access -5	10/28/2026	11/9/2026	11	5	10
Asphalt Paving	WFRd-C&E Access -6	11/10/2026	11/17/2026	6	5	10
KRail and Signs	WFRd-C&E Access -7	11/18/2026	11/18/2026	1	1	10
Intermediate Overlay	WFRd-C&E Access -8	5/20/2030	5/21/2030	2	2	10
Final Overlay	WFRd-C&E Access -9	6/10/2037	6/12/2037	3	3	10

Acres

2

Construction Schedule for Southern Complex on Byron Tract - Eastern						
Option 8						
NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION						
Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Rail Features in Northern Southern Forebay	SF - Eastern - 1	1/5/26	10/22/26	207	5	10
Rail Features in the Southern portion of Southern Forebay	SF - Eastern - 2	1/5/2026	4/2/2027	323	5	10
Rail Yard	SF - Eastern - 3	3/30/2026	3/19/2027	253	5	10
Byron Highway Interchange	SF - Eastern - 4	4/27/2026	3/11/2027	227	5	10
Pumping Plant Initial Site Work	SF - Eastern - 5	7/2/2027	7/9/2027	5	5	10
Pumping Plant Ground Improvement	SF - Eastern - 6	7/16/2027	2/24/2028	159	5	10
Pumping Plant Construction Phase 1	SF - Eastern - 7	3/30/2027	3/30/2028	261	5	10
Pumping Plant Contractor Operations	SF - Eastern - 8	7/2/2027	4/22/2032	1254	5	10
Pumping Plant Substation	SF - Eastern - 9	12/21/2029	10/14/2030	212	5	10
Pumping Plant Structure Phase 1	SF - Eastern - 10	3/17/2027	7/8/2027	81	5	10
Pumping Plant Structure Phase 2	SF - Eastern - 11	12/21/2029	1/21/2031	283	5	10
Pumping Plant Structure Phase 3	SF - Eastern - 12	10/23/2030	6/17/2033	691	5	10
Pumping Plant Wet Well	SF - Eastern - 13	1/23/2031	4/5/2034	834	5	10
Pumping Plant Outlet Structure	SF - Eastern - 14	4/12/2032	9/1/2034	623	5	10
Pumping Plant Dissipation Slab Phase 1A	SF - Eastern - 15A	9/29/2031	8/12/2032	227	5	10
Pumping Plant Dissipation Slab Phase 1B	SF - Eastern - 15B	6/9/2034	10/15/2035	352	5	10
Pumping Plant Electrical Building	SF - Eastern - 16	6/9/2034	1/11/2035	154	5	10
Pumping Plant Generator Building	SF - Eastern - 17	1/11/2035	2/26/2035	33	5	10
Pumping Plant HVAC	SF - Eastern - 18	2/1/2035	3/14/2035	29	5	10
Pumping Plant Finish Site Work	SF - Eastern - 19	1/11/2035	4/25/2036	336	5	10
Pumping Plant Finish Work Phase 1	SF - Eastern - 20	1/21/2033	10/19/2035	715	5	10
Pumping Plant Finish Work Phase 2	SF - Eastern - 21	9/15/2031	4/3/2035	926	5	10
Pumping Plant Pumping Equipment	SF - Eastern - 22	9/7/2035	7/29/2036	233	5	10
Southern Forebay Site Preparation	SF - Eastern - 23	3/1/2028	12/7/2028	201	5	10
Southern Forebay Clear and Grub	SF - Eastern - 24	4/26/2028	1/4/2029	181	5	10
Southern Forebay Foundations	SF - Eastern - 25	4/26/2028	12/7/2029	445	5	10
Southern Forebay Embankments	SF - Eastern - 26	4/26/2030	7/6/2035	1355	5	10
Southern Forebay Soil Materials Handling	SF - Eastern - 27	6/7/2028	2/20/2035	1749	5	10
Southern Forebay Temporary Facilities During Construction	SF - Eastern - 28	3/1/2028	7/23/2036	2190	5	10
Southern Forebay Emnbankment Finish Work	SF - Eastern - 29	7/6/2035	7/23/2036	274	5	10
Southern Forebay Spillway	SF - Eastern - 30	7/27/2034	4/12/2035	185	5	10
Southern Forebay Outlet Structure	SF - Eastern - 31	1/27/2034	7/23/2036	649	5	10
Southern Forebay Inlet Structure	SF - Eastern - 32	4/12/2035	10/19/2035	136	5	10
Tunnel Launch Shaft Site Preparation for Shafts from Southern Forebay to South Delta Conveyance	SF - Eastern - 33	11/21/2029	11/14/2030	256	5	10
Raise Tunnel Eastern Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5E)	SF - Eastern - 34	11/21/2029	11/5/2032	771	5	10
Finalize Tunnel Eastern Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5E)	SF - Eastern - 35	4/18/2031	8/19/2031	88	5	10
Construct Tunnel from Eastern Shaft at Southern Forebay Outlet to South Delta Conveyance (called Shaft 5E)	SF - Eastern - 36	8/20/2031	9/24/2032	344	6	20
Finish Work for Tunnel Eastern Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5E)	SF - Eastern - 37	9/27/2032	11/15/2032	35	5	10
Raise Tunnel Western Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5W)	SF - Eastern - 38	7/31/2030	4/6/2034	961	5	10
Finalize Tunnel Western Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5W)	SF - Eastern - 39	11/28/2031	12/20/2032	277	5	10
Construct Tunnel from Western Shaft at Southern Forebay Outlet to South Delta Conveyance (called Shaft 5W)	SF - Eastern - 40	12/21/2032	4/21/2034	417	6	20
Finish Work for Tunnel Western Shaft from Southern Forebay to South Delta Conveyance (called Shaft 5W)	SF - Eastern - 41	3/3/2034	4/21/2034	35	5	10
Tunnel Launch Shaft Site Preparation for Shaft at Northern portion of Southern Forebay	SF - Eastern - 42	10/12/2029	2/22/2036	1660	5	10
Raise Tunnel Shaft at Northern portion of Southern Forebay	SF - Eastern - 43	7/26/2030	6/25/2031	239	5	10
Finalize Tunnel Shaft at Northern portion of Southern Forebay	SF - Eastern - 44	6/25/2031	10/31/2031	91	5	10
Tunnel Launch Working Shaft Site Preparation at Northern portion of Southern Forebay	SF - Eastern - 45	12/7/2029	7/26/2030	165	5	10
Raise Tunnel Working Shaft at Northern portion of Southern Forebay	SF - Eastern - 46	3/8/2030	11/18/2031	443	5	10
Finalize Tunnel Working Shaft at Northern portion of Southern Forebay	SF - Eastern - 47	11/18/2031	2/9/2032	59	5	10
Construct Tunnel from Southern Forebay to Reception Shaft	SF - Eastern - 48	10/31/2031	2/26/2038	1980	6	20
Finish Work for Tunnel from Southern Forebay to Reception Shaft	SF - Eastern - 49	2/26/2038	6/4/2038	70	5	10
Erect Batch Plant #1	SF - Eastern - 50	3/5/2027	4/30/2027	40	5	10
Erect Batch Plant #2	SF - Eastern - 51	6/25/2030	8/19/2030	39	5	10
Operate Concrete Batch Plant	SF - Eastern - 52	4/9/2027	3/17/2037	2593	5	10
Intermediate Access Road Overlays	SF - Eastern - 53	7/30/2038	8/16/2038	12	5	10
Final Access Road Overlays	SF - Eastern - 54	4/8/2030	4/22/2030	10	5	10
Site Restoration	SF - Eastern - 55	2/7/2036	1/7/2037	239	5	10

Total Site Acres	1700					
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**Vehicle Inventory for Southern Complex on Byron Tract - Eastern
Option 8**

NOTE: HOURS/DAY/EQUIPMENT (COLUMN F) WITH MORE 10 HOURS THAN WORK DAY HOURS WOULD REQUIRE MULTIPLE NUMBERS OF EQUIPMENT

Code	Equipment Name	General Equipment Category	Hours	# day	Hours/day/ equipment	Fuel Type	Engine Horsepower (if	Load Factor	Fuel Efficiency (gal/day)	Fuel (gal/day) (if known)
SF - Eastern - 1	Air Compressor 185 cfm	Air Compressor	8.9	207	0.0	Diesel Tier 4	49	0.48		
SF - Eastern - 1	CAT Forklift 5,500 LB	Aerial Lift	799.7	207	3.9	Diesel	63	0.31		
SF - Eastern - 1	Grove RT Crane 30T	Crane	319.9	207	1.5	Diesel	160	0.29		
SF - Eastern - 1	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	4.4	207	0.0	Diesel	75	0.31		
SF - Eastern - 1	Boom Truck, 12.5 Tn Boom	Crane	4.4	207	0.0	Diesel or Hybrid	100	0.29		
SF - Eastern - 2	Air Compressor 185 cfm	Air Compressor	44.4	323	0.1	Diesel Tier 4	49	0.48		
SF - Eastern - 2	Boom Truck, 12.5 Tn Boom	Crane	22.2	323	0.1	Diesel or Hybrid	100	0.29		
SF - Eastern - 2	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	22.2	323	0.1	Diesel	75	0.31		
SF - Eastern - 2	CAT Forklift 5,500 LB	Aerial Lift	4000.3	323	12.4	Diesel	63	0.31		
SF - Eastern - 2	Grove RT Crane 55T, 247 hp	Crane	1600.1	323	5.0	Diesel	247	0.29		
SF - Eastern - 3	CAT 14 M	Grader	853.3	253	3.4	Diesel	274	0.41		
SF - Eastern - 3	CAT 825, Roller	Roller	466.1	253	1.8	Diesel	315	0.38		
SF - Eastern - 3	CAT 962 H Wheel Loader	Rubber Tired Loader	620.2	253	2.5	Diesel	230	0.36		
SF - Eastern - 3	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	620.2	253	2.5	Diesel	158	0.38		
SF - Eastern - 3	CAT D6LGPDozer w winch	Crawler Tractor	1799.2	253	7.1	Diesel or Hybrid	179	0.43		
SF - Eastern - 3	CAT LOADER/HOE 416 E	Rubber Tired Loaders	2613.1	253	10.3	Diesel	78	0.36		
SF - Eastern - 3	Compactor, Trench Roller, Vib 32" w	Rollers	378.7	253	1.5	Diesel	20	0.38		
SF - Eastern - 3	Disk, Towed	Off Highway Tractor	466.1	253	1.8	Diesel	140	0.44		
SF - Eastern - 3	Grove RT Crane 55T, 247 hp	Crane	2423.8	253	9.6	Diesel	247	0.29		
SF - Eastern - 3	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	363.6	253	1.4	Diesel	384	0.38		
SF - Eastern - 3	Water Pump, 4" Diesel	Pumps	180	253	0.7	Diesel	10	0.74		
SF - Eastern - 4	Air Compressor 375 cfm	Air Compressor	30.4	227	0.1	Diesel Tier 4	122	0.48		
SF - Eastern - 4	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	311.9	227	1	Diesel or Hybrid	224	0.42		
SF - Eastern - 4	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	311.9	227	1	Diesel or Hybrid	137	0.38		
SF - Eastern - 4	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	311.9	227	1	Diesel or Hybrid	133	0.38		
SF - Eastern - 4	CAT 14 M	Grader	646.9	227	2.8	Diesel	274	0.41		
SF - Eastern - 4	CAT 815, Roller	Roller	203.4	227	0.9	Diesel	170	0.38		
SF - Eastern - 4	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	545.3	227	2.4	Diesel	158	0.38		
SF - Eastern - 4	CAT D6LGPDozer w winch	Crawler Tractor	470.7	227	2.1	Diesel or Hybrid	179	0.43		
SF - Eastern - 4	CAT LOADER/HOE 416 E	Rubber Tired Loaders	477.9	227	2.1	Diesel	78	0.36		
SF - Eastern - 4	Compactor, Plate, 22" w x 35"	Plate Compactors	30.4	227	0.1	Diesel	8.5	0.43		
SF - Eastern - 4	Compactor, Trench Roller, Vib 32" w Disk,	Rollers	140	227	0.6	Diesel	20	0.38		
SF - Eastern - 4	Towed	Off Highway Tractor	203.4	227	0.9	Diesel	140	0.44		
SF - Eastern - 4	Grove RT Crane 55T, 247 hp	Crane	1424.2	227	6.3	Diesel	247	0.29		
SF - Eastern - 4	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	267.3	227	1.2	Diesel	384	0.38		
SF - Eastern - 4	Manitowoc 555 150T, 250' Boom Water	Crane	1424.2	227	6.3	Diesel	760	0.29		
SF - Eastern - 4	Pump, 4" Diesel	Pumps	569.7	227	2.5	Diesel	10	0.74		
SF - Eastern - 5	CAT 14 M	Grader	276.7	5	55.3	Diesel	274	0.41		
SF - Eastern - 5	CAT 988 H Wheel Loader	Rubber Tired Loader	100	5	20.0	Diesel	400	0.36		
SF - Eastern - 5	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	100	5	20.0	Diesel	158	0.38		
SF - Eastern - 5	CAT D3 LGF, Dozer	Crawler Tractor	153.6	5	30.7	Diesel or Hybrid	76	0.43		
SF - Eastern - 5	CAT D6LGPDozer w winch	Crawler Tractor	153.6	5	30.7	Diesel or Hybrid	179	0.43		
SF - Eastern - 5	CAT IT28H, 10640 LB Tool Carrier Water	Rubber Tired Loaders	153.6	5	30.7	Diesel	145	0.36		
SF - Eastern - 5	Pump, 6" Diesel	Pumps	100	5	20.0	Diesel	13	0.74		
SF - Eastern - 5	Water Pump, 3" Gas, Diaphragm	Pumps	153.6	5	30.7	Gasoline	10	0.74		
SF - Eastern - 6	Air Compressor 185 cfm	Air Compressor	759.3	159	4.8	Diesel Tier 4	49	0.48		
SF - Eastern - 6	Air Compressor 375 cfm	Air Compressor	12080	159	76	Diesel Tier 4	122	0.48		
SF - Eastern - 6	Boom Truck, 12.5 Tn Boom	Crane	379.7	159	2.4	Diesel or Hybrid	100	0.29		
SF - Eastern - 6	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	12080	159	76	Diesel	110	0.36		
SF - Eastern - 6	DMM Deep Soil Mixer, 3 Shaft,	Bore Drill Rig	12080	159	76	Diesel	522	0.5		
SF - Eastern - 6	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	12080	159	76	Diesel	500	0.34		
SF - Eastern - 6	Grove RT Crane 30T	Crane	12080	159	76	Diesel	160	0.29		
SF - Eastern - 6	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	379.7	159	2.4	Diesel	75	0.31		
SF - Eastern - 6	Portable, 90 Kw, Diesel, 158HP	Welders	1270	159	8	Diesel Tier 4	158	0.45		
SF - Eastern - 7	Air Compressor 185 cfm	Air Compressor	2815.9	261	10.8	Diesel Tier 4	49	0.48		
SF - Eastern - 7	Boom Truck, 12.5 Tn Boom	Crane	1407.9	261	5.4	Diesel or Hybrid	100	0.29		
SF - Eastern - 7	CAT 14 M	Grader	76.8	261	0.3	Diesel	274	0.41		
SF - Eastern - 7	Cat 613 C Self Loading Scraper	Scraper	153.6	261	0.6	Diesel	187	0.48		
SF - Eastern - 7	CAT 950 H Wheel Loader	Rubber Tired Loaders	76.8	261	2.9	Diesel or Hybrid	130	0.36		
SF - Eastern - 7	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	76.8	261	0.3	Diesel	158	0.38		
SF - Eastern - 7	CAT D6LGPDozer w winch	Crawler Tractor	76.8	261	0.3	Diesel or Hybrid	179	0.43		
SF - Eastern - 7	CAT LOADER/HOE 416 E	Rubber Tired Loaders	7488	261	28.6	Diesel	78	0.36		
SF - Eastern - 7	Compactor, Plate, 22" w x 35"	Plate Compactors	384	261	1.5	Diesel	8.5	0.43		
SF - Eastern - 7	Disk, Towed	Off Highway Tractor	7488	261	28.6	Diesel	140	0.44		
SF - Eastern - 7	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	3744	261	14.3	Diesel	80	0.44		
SF - Eastern - 7	Grove RT Crane 30T	Crane	135.2	261	0.5	Diesel	160	0.29		
SF - Eastern - 7	Grove RT Crane 80T, 275hp	Crane	135.2	261	0.5	Diesel	275	0.29		
SF - Eastern - 7	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	1475.6	261	5.6	Diesel	75	0.31		
SF - Eastern - 7	Water Pump, 4" Diesel	Pumps	76.8	261	0.3	Diesel	10	0.74		
SF - Eastern - 8	Air Compressor 900 cfm	Air Compressor	9984	1254	8.0	Diesel Tier 4	300	0.48		
SF - Eastern - 8	CAT 12 M	Grader	1375.5	1254	1.1	Diesel	173	0.41		
SF - Eastern - 8	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	1375.5	1254	1.1	Diesel	158	0.38		
SF - Eastern - 8	CAT LOADER/HOE 416 E	Rubber Tired Loaders	6877.6	1254	5.5	Diesel	78	0.36		
SF - Eastern - 8	Manitowoc 999-275 Ton Crane	Crane	19968	1254	15.9	Diesel	900	0.29		
SF - Eastern - 8	Portable, 90 Kw, Diesel, 158HP	Welders	19968	1254	15.9	Diesel Tier 4	158	0.45		
SF - Eastern - 8	Trk Crane, 200tn Hyd, 197bm, 563hp	Crane	19968	1254	15.9	Diesel	563	0.29		
SF - Eastern - 9	400A Diesel Welder, Trailer Mounted	Welders	280	212	1.3	Diesel	22	0.45		
SF - Eastern - 9	Air Compressor 185 cfm	Air Compressor	960	212	4.5	Diesel Tier 4	49	0.48		
SF - Eastern - 9	Air Compressor 900 cfm	Air Compressor	288	212	1.4	Diesel Tier 4	300	0.48		
SF - Eastern - 9	Boom Truck, 12.5 Tn Boom	Crane	960	212	4.5	Diesel or Hybrid	100	0.29		
SF - Eastern - 9	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	512	212	2.4	Diesel	110	0.36		
SF - Eastern - 9	CAT 12 M	Grader	6	212	0.0	Diesel	173	0.41		
SF - Eastern - 9	CAT 950 H Wheel Loader	Rubber Tired Loaders	80	212	0.4	Diesel or Hybrid	130	0.36		
SF - Eastern - 9	CAT 973 Track Loader, 4.2 cy, 263hp	Skid Loader	512	212	2.4	Diesel or Hybrid	210	0.37		
SF - Eastern - 9	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	80	212	0.4	Diesel	158	0.38		
SF - Eastern - 9	CAT D3 LGF, Dozer	Crawler Tractor	80	212	0.4	Diesel or Hybrid	76	0.43		
SF - Eastern - 9	CAT D6LGPDozer w winch	Crawler Tractor	24	212	0.1	Diesel or Hybrid	179	0.43		
SF - Eastern - 9	Compactor, Plate, 22" w x 35"	Plate Compactors	256	212	1.2	Diesel	8.5	0.43		
SF - Eastern - 9	Concrete Vibrator, 2"	Other Construction Eq	576	212	2.7	Gasoline	3	0.42		
SF - Eastern - 9	Grove RT Crane 30T	Crane	960	212	4.5	Diesel	160	0.29		

SF - Eastern - 9	Grove RT Crane 55T, 247 hp	Crane	182.4	212	0.9	Diesel	247	0.29
SF - Eastern - 9	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	24	212	0.1	Diesel	384	0.38
SF - Eastern - 9	Manitowoc 555 150T, 250' Boom	Crane	38.4	212	0.2	Diesel	760	0.29
SF - Eastern - 9	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	960	212	4.5	Diesel	75	0.31
SF - Eastern - 9	Portable, 90 Kw, Diesel, 158HP	Welders	288	212	1.4	Diesel Tier 4	158	0.45
SF - Eastern - 10	400A Diesel Welder, Trailer Mounted	Welders	78	81	1.0	Diesel	22	0.45
SF - Eastern - 10	CAT 14 M	Grader	71.2	81	0.9	Diesel	274	0.41
SF - Eastern - 10	CAT 988 H Wheel Loader	Rubber Tired Loader	71.2	81	0.9	Diesel	400	0.36
SF - Eastern - 10	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	71.2	81	0.9	Diesel	158	0.38
SF - Eastern - 10	Grove RT Crane 55T, 247 hp	Crane	156	81	1.9	Diesel	247	0.29
SF - Eastern - 10	Portable, 90 Kw, Diesel, 158HP	Welders	78	81	1.0	Diesel Tier 4	158	0.45
SF - Eastern - 10	Water Pump, 6" Diesel	Pumps	71.2	81	0.9	Diesel	13	0.74
SF - Eastern - 11	Air Compressor 185 cfm	Air Compressor	890	283	3.1	Diesel Tier 4	49	0.48
SF - Eastern - 11	Bentonite Mix Plant/Desander	Cement & Mortar Mix	8220.4	283	29.1	Diesel Tier 4	100	0.56
SF - Eastern - 11	Boom Truck, 12.5 Tn Boom	Crane	445	283	1.6	Diesel or Hybrid	100	0.29
SF - Eastern - 11	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	8220.4	283	29.1	Diesel	110	0.36
SF - Eastern - 11	CAT 14 M	Grader	400.9	283	1.4	Diesel	274	0.41
SF - Eastern - 11	CAT 962 H Wheel Loader	Rubber Tired Loader	8220.4	283	29.1	Diesel	230	0.36
SF - Eastern - 11	CAT 988 H Wheel Loader	Rubber Tired Loader	200.4	283	0.7	Diesel	400	0.36
SF - Eastern - 11	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	200.4	283	0.7	Diesel	158	0.38
SF - Eastern - 11	CAT D6LGPDozer w winch	Crawler Tractor	8220.4	283	29.1	Diesel or Hybrid	179	0.43
SF - Eastern - 11	Grove RT Crane 55T, 247 hp	Crane	8221.4	283	29.1	Diesel	247	0.29
SF - Eastern - 11	Grove RT Crane 80T, 275hp	Crane	8220.4	283	29.1	Diesel	275	0.29
SF - Eastern - 11	Manitowoc 555 150T, 250' Boom	Crane	15256.1	283	53.9	Diesel	760	0.29
SF - Eastern - 11	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	445	283	1.6	Diesel	75	0.31
SF - Eastern - 11	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	8220.4	283	29	Diesel	8	0.56
SF - Eastern - 11	Slurry Wall Techniwell	Pumps	8220.4	283	29	Diesel	500	0.74
SF - Eastern - 11	Well Drill	Bore/Drill Rigs	192	283	0.7	Diesel	136	0.5
SF - Eastern - 12	400A Diesel Welder, Trailer Mounted	Welders	3251.8	691	4.7	Diesel	22	0.45
SF - Eastern - 12	Air Compressor 375 cfm	Air Compressor	58.5	691	0.1	Diesel Tier 4	122	0.48
SF - Eastern - 12	Air Compressor 900 cfm	Air Compressor	2600.4	691	3.8	Diesel Tier 4	300	0.48
SF - Eastern - 12	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Construction E	206.5	691	0.3	Diesel	50	0.42
SF - Eastern - 12	Bobcat S630 Skid Steer Loader	Skid Loader	266.6	691	0.4	Diesel	74	0.37
SF - Eastern - 12	CAT 14 M	Grader	130.4	691	0.2	Diesel	274	0.41
SF - Eastern - 12	CAT 390 MASS EXC	Excavator	1754.9	691	2.5	Diesel	534	0.38
SF - Eastern - 12	CAT 815, Roller	Roller	260.8	691	0.4	Diesel	170	0.38
SF - Eastern - 12	CAT D6LGPDozer w winch	Crawler Tractor	260.8	691	0.4	Diesel or Hybrid	179	0.43
SF - Eastern - 12	CAT D8Ril, Dozer w winch	Crawler Tractor	1385.3	691	2.0	Diesel	310	0.43
SF - Eastern - 12	Concrete Vibrator, 2"	Other Construction Eq	9579.9	691	13.9	Gasoline	3	0.42
SF - Eastern - 12	Grove RT Crane 15T, 100hp	Crane	361.8	691	0.5	Diesel	100	0.29
SF - Eastern - 12	Grove RT Crane 55T, 247 hp	Crane	7235.9	691	10.5	Diesel	247	0.29
SF - Eastern - 12	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	1494.2	691	2.2	Diesel	345	0.38
SF - Eastern - 12	Light Plant, 4 lite, 1000w, Tower/Mast	Generator	153.6	691	0.2	Diesel	12	0.74
SF - Eastern - 12	Manitowoc 555 150T, 250' Boom	Crane	16252.4	691	23.5	Diesel	760	0.29
SF - Eastern - 12	Portable, 20 Kw, Diesel, 36HP	Welders	58.5	691	0.1	Diesel Tier 4	36	0.45
SF - Eastern - 12	Portable, 90 Kw, Diesel, 158HP	Welders	3193.3	691	4.6	Diesel Tier 4	158	0.45
SF - Eastern - 12	Water Pump, 10" Diesel	Pumps	2060.2	691	3.0	Diesel	200	0.74
SF - Eastern - 13	400A Diesel Welder, Trailer Mounted	Welders	1569.9	834	1.9	Diesel	22	0.45
SF - Eastern - 13	Air Compressor 185 cfm	Air Compressor	208.3	834	0.2	Diesel Tier 4	49	0.48
SF - Eastern - 13	Air Compressor 375 cfm	Air Compressor	4.8	834	0.0	Diesel Tier 4	122	0.48
SF - Eastern - 13	Air Compressor 900 cfm	Air Compressor	1565.1	834	1.9	Diesel Tier 4	300	0.48
SF - Eastern - 13	Bentonite Mix Plant/Desander	Cement & Mortar Mix	1870.9	834	2.2	Diesel Tier 4	100	0.56
SF - Eastern - 13	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Construction E	164.7	834	0.2	Diesel	50	0.42
SF - Eastern - 13	Bobcat S630 Skid Steer Loader	Skid Loader	87	834	0.1	Diesel	74	0.37
SF - Eastern - 13	Boom Truck, 12.5 Tn Boom	Crane	104.2	834	0.1	Diesel or Hybrid	100	0.29
SF - Eastern - 13	CAT 12 M	Grader	57.5	834	0.1	Diesel	173	0.41
SF - Eastern - 13	CAT 14 M	Grader	95.2	834	0.1	Diesel	274	0.41
SF - Eastern - 13	CAT 390 MASS EXC	Excavator	58.9	834	0.1	Diesel	534	0.38
SF - Eastern - 13	CAT 815, Roller	Roller	58.9	834	0.1	Diesel	170	0.38
SF - Eastern - 13	CAT 962 H Wheel Loader	Rubber Tired Loader	1870.9	834	2.2	Diesel	230	0.36
SF - Eastern - 13	CAT 988 H Wheel Loader	Rubber Tired Loader	32.9	834	0.0	Diesel	400	0.36
SF - Eastern - 13	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	32.9	834	0.0	Diesel	158	0.38
SF - Eastern - 13	CAT D3 LGP, Dozer	Crawler Tractor	230.1	834	0.3	Diesel or Hybrid	76	0.43
SF - Eastern - 13	CAT D6LGPDozer w winch	Crawler Tractor	1929.8	834	2.3	Diesel or Hybrid	179	0.43
SF - Eastern - 13	CAT D8Ril, Dozer w winch	Crawler Tractor	312.8	834	0.4	Diesel	310	0.43
SF - Eastern - 13	Compactor, Plate, 22"x w x 35"	Plate Compactors	87	834	0.1	Diesel	8.5	0.43
SF - Eastern - 13	Compactor, Trench Roller, Vib 32"w	Rollers	87	834	0.1	Diesel	20	0.38
SF - Eastern - 13	Concrete Vibrator, 2"	Other Construction Eq	4695.2	834	5.6	Gasoline	3	0.42
SF - Eastern - 13	Grove RT Crane 55T, 247 hp	Crane	4253.3	834	5.1	Diesel	247	0.29
SF - Eastern - 13	Grove RT Crane 80T, 275hp	Crane	3742.2	834	4.5	Diesel	275	0.29
SF - Eastern - 13	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	230.1	834	0.3	Diesel	384	0.38
SF - Eastern - 13	Manitowoc 555 150T, 250' Boom	Crane	9920.1	834	11.9	Diesel	760	0.29
SF - Eastern - 13	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	104.2	834	0.1	Diesel	75	0.31
SF - Eastern - 13	Portable, 90 Kw, Diesel, 158HP	Welders	1565.1	834	1.9	Diesel Tier 4	158	0.45
SF - Eastern - 13	Water Pump, 10" Diesel	Pumps	1536	834	1.8	Diesel	200	0.74
SF - Eastern - 13	Water Pump, 6" Diesel	Pumps	1903.8	834	2.3	Diesel	13	0.74
SF - Eastern - 14	400A Diesel Welder, Trailer Mounted	Welders	3205	623	5.1	Diesel	22	0.45
SF - Eastern - 14	Air Compressor 375 cfm	Air Compressor	175.6	623	0.3	Diesel Tier 4	122	0.48
SF - Eastern - 14	Air Compressor 900 cfm	Air Compressor	3029.4	623	4.9	Diesel Tier 4	300	0.48
SF - Eastern - 14	Bidwell Bridge Deck Screed-Finish, 50 HP	Othern Construction E	332.2	623	0.5	Diesel	50	0.42
SF - Eastern - 14	Bobcat S630 Skid Steer Loader	Skid Loader	1378	623	2.2	Diesel	74	0.37
SF - Eastern - 14	CAT 14 M	Grader	244.2	623	0.4	Diesel	274	0.41
SF - Eastern - 14	CAT 390 MASS EXC	Excavator	921.4	623	1.5	Diesel	534	0.38
SF - Eastern - 14	CAT 815, Roller	Roller	488.5	623	0.8	Diesel	170	0.38
SF - Eastern - 14	CAT D6LGPDozer w winch	Crawler Tractor	488.5	623	0.8	Diesel or Hybrid	179	0.43
SF - Eastern - 14	CAT D8Ril, Dozer w winch	Crawler Tractor	488.5	623	0.8	Diesel	310	0.43
SF - Eastern - 14	Compactor, Plate, 22"x w x 35"	Plate Compactors	1378	623	2.2	Diesel	8.5	0.43
SF - Eastern - 14	Compactor, Trench Roller, Vib 32"w	Roller	1378	623	2.2	Diesel	20	0.38
SF - Eastern - 14	Concrete Vibrator, 2"	Other Construction Eq	9088.1	623	14.6	Gasoline	3	0.42
SF - Eastern - 14	Grove RT Crane 55T, 247 hp	Crane	3185.8	623	5.1	Diesel	247	0.29
SF - Eastern - 14	Grove RT Crane 80T, 275hp	Crane	383.3	623	0.6	Diesel	275	0.29
SF - Eastern - 14	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	433	623	0.7	Diesel	345	0.38
SF - Eastern - 14	Manitowoc 555 150T, 250' Boom	Crane	7381.5	623	11.9	Diesel	760	0.29
SF - Eastern - 14	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	156.4	623	0.3	Diesel	75	0.31
SF - Eastern - 14	Portable, 20 Kw, Diesel, 36HP	Welders	156.4	623	0.3	Diesel Tier 4	36	0.45
SF - Eastern - 14	Portable, 90 Kw, Diesel, 158HP	Welders	3029.4	623	4.9	Diesel Tier 4	158	0.45
SF - Eastern - 14	Vibro Driver/Extractor V208	Other Construction Eq	156.4	623	0.3	Diesel	325	0.42

SF - Eastern - 15A	400A Diesel Welder, Trailer Mounted	Welders	2995.2	227	13.2	Diesel	22	0.45
SF - Eastern - 15A	CAT IT27H, 10640 LB Tool Carrier	Rubber Tired Loaders	2995.2	227	13.2	Diesel	145	0.36
SF - Eastern - 15A	Manitowoc 555 150T, 250' Boom	Crane	2995.2	227	13.2	Diesel	760	0.29
SF - Eastern - 15B	400A Diesel Welder, Trailer Mounted	Welders	861.4	352	2.4	Diesel	22	0.45
SF - Eastern - 15B	Air Compressor 185 cfm	Air Compressor	76.8	352	0.2	Diesel Tier 4	49	0.48
SF - Eastern - 15B	Air Compressor 375 cfm	Air Compressor	591.7	352	1.7	Diesel Tier 4	122	0.48
SF - Eastern - 15B	Air Compressor 900 cfm	Air Compressor	861.4	352	2.4	Diesel Tier 4	300	0.48
SF - Eastern - 15B	Bentonite Mix Plant/Desander	Cement & Mortar Mix	591.7	352	1.7	Diesel Tier 4	100	0.56
SF - Eastern - 15B	Bidwell Bridge Deck Screed-Finish, 50 HP	Other Construction E	80.9	352	0.2	Diesel	50	0.42
SF - Eastern - 15B	Bobcat S630 Skid Steer Loader	Skid Loader	250.5	352	0.7	Diesel	74	0.37
SF - Eastern - 15B	Boom Truck, 12.5 Tn Boom	Crane	38.4	352	0.1	Diesel or Hybrid	100	0.29
SF - Eastern - 15B	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	591.7	352	1.7	Diesel	110	0.36
SF - Eastern - 15B	CAT 12 M	Grader	298.6	352	0.8	Diesel	173	0.41
SF - Eastern - 15B	CAT 14 M	Grader	761.1	352	2.2	Diesel	274	0.41
SF - Eastern - 15B	CAT 953 Track Loader, 2.25cy, 148hp	Skid Loader	591.7	352	1.7	Diesel	148	0.37
SF - Eastern - 15B	CAT 988 H Wheel Loader	Rubber Tired Loader	380.5	352	1.1	Diesel	400	0.36
SF - Eastern - 15B	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	380.5	352	1.1	Diesel	158	0.38
SF - Eastern - 15B	CAT D6LGPDozer w winch	Crawler Tractor	2980.9	352	8.5	Diesel or Hybrid	179	0.43
SF - Eastern - 15B	Compactor, Plate, 22" w x 35"	Plate Compactors	250.5	352	0.7	Diesel	8.5	0.43
SF - Eastern - 15B	Compactor, Trench Roller, Vib 32" w	Roller	250.5	352	0.7	Diesel	20	0.38
SF - Eastern - 15B	Concrete Vibrator, 2"	Other Construction Eq	2584.3	352	7.3	Gasoline	3	0.42
SF - Eastern - 15B	Grove RT Crane 15T, 100hp	Crane	591.7	352	1.7	Diesel	100	0.29
SF - Eastern - 15B	Grove RT Crane 55T, 247 hp	Crane	1034.2	352	2.9	Diesel	247	0.29
SF - Eastern - 15B	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	1194.6	352	3.4	Diesel	384	0.38
SF - Eastern - 15B	Manitowoc 555 150T, 250' Boom	Crane	2912.9	352	8.3	Diesel	760	0.29
SF - Eastern - 15B	Portable, 90 Kw, Diesel, 158HP	Welders	861.3	352	2.4	Diesel Tier 4	158	0.45
SF - Eastern - 15B	Water Pump, 6" Diesel	Pumps	972.3	352	2.8	Diesel	13	0.74
SF - Eastern - 16	400A Diesel Welder, Trailer Mounted	Welders	289.1	154	1.9	Diesel	22	0.45
SF - Eastern - 16	Air Compressor 185 cfm	Air Compressor	1100.8	154	7.1	Diesel Tier 4	49	0.48
SF - Eastern - 16	Air Compressor 900 cfm	Air Compressor	289.1	154	1.9	Diesel Tier 4	300	0.48
SF - Eastern - 16	Bidwell Bridge Deck Screed-Finish, 50 HP	Other Construction E	91.1	154	0.6	Diesel	50	0.42
SF - Eastern - 16	Boom Truck, 12.5 Tn Boom	Crane	1100.8	154	7.1	Diesel or Hybrid	100	0.29
SF - Eastern - 16	CAT 950 H Wheel Loader	Rubber Tired Loaders	72.3	154	0.5	Diesel or Hybrid	130	0.36
SF - Eastern - 16	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	72.3	154	0.5	Diesel	158	0.38
SF - Eastern - 16	CAT D3 LGP, Dozer	Crawler Tractor	72.3	154	0.5	Diesel or Hybrid	76	0.43
SF - Eastern - 16	Concrete Vibrator, 2"	Other Construction Eq	578.1	154	3.7	Gasoline	3	0.42
SF - Eastern - 16	Grove RT Crane 30T	Crane	1100.8	154	7.1	Diesel	160	0.29
SF - Eastern - 16	Grove RT Crane 55T, 247 hp	Crane	289.1	154	1.9	Diesel	247	0.29
SF - Eastern - 16	Manitowoc 555 150T, 250' Boom	Crane	289.1	154	1.9	Diesel	760	0.29
SF - Eastern - 16	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	1100.8	154	7.1	Diesel	75	0.31
SF - Eastern - 17	400A Diesel Welder, Trailer Mounted	Welders	77.7	33	2.4	Diesel	22	0.45
SF - Eastern - 17	Air Compressor 185 cfm	Air Compressor	1232	33	37.5	Diesel Tier 4	49	0.48
SF - Eastern - 17	Air Compressor 900 cfm	Air Compressor	77.7	33	2.4	Diesel Tier 4	300	0.48
SF - Eastern - 17	Bidwell Bridge Deck Screed-Finish, 50 HP	Other Construction E	24.5	33	0.7	Diesel	50	0.42
SF - Eastern - 17	Boom Truck, 12.5 Tn Boom	Crane	1232	33	37.5	Diesel or Hybrid	100	0.29
SF - Eastern - 17	CAT 950 H Wheel Loader	Rubber Tired Loaders	10.9	33	0.3	Diesel or Hybrid	130	0.36
SF - Eastern - 17	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	10.9	33	0.3	Diesel	158	0.38
SF - Eastern - 17	CAT D3 LGP, Dozer	Crawler Tractor	10.9	33	0.3	Diesel or Hybrid	76	0.43
SF - Eastern - 17	Concrete Vibrator, 2"	Other Construction Eq	155.4	33	4.7	Gasoline	3	0.42
SF - Eastern - 17	Grove RT Crane 30T	Crane	1232	33	37.5	Diesel	160	0.29
SF - Eastern - 17	Grove RT Crane 55T, 247 hp	Crane	77.7	33	2.4	Diesel	247	0.29
SF - Eastern - 17	Manitowoc 555 150T, 250' Boom	Crane	77.7	33	2.4	Diesel	760	0.29
SF - Eastern - 17	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	1232	33	37.5	Diesel	75	0.31
SF - Eastern - 17	Portable, 90 Kw, Diesel, 158HP	Welders	77.7	33	2.4	Diesel Tier 4	158	0.45
SF - Eastern - 18	400A Diesel Welder, Trailer Mounted	Welders	42.4	29	1.4	Diesel	22	0.45
SF - Eastern - 18	Air Compressor 185 cfm	Air Compressor	0.2	29	0.0	Diesel Tier 4	49	0.48
SF - Eastern - 18	Air Compressor 900 cfm	Air Compressor	42.4	29	1.4	Diesel Tier 4	300	0.48
SF - Eastern - 18	Boom Truck, 12.5 Tn Boom	Crane	29	29	0.0	Diesel or Hybrid	100	0.29
SF - Eastern - 18	CAT 950 H Wheel Loader	Rubber Tired Loaders	24.2	29	0.8	Diesel or Hybrid	130	0.36
SF - Eastern - 18	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	24.2	29	0.8	Diesel	158	0.38
SF - Eastern - 18	CAT D3 LGP, Dozer	Crawler Tractor	24.2	29	0.8	Diesel or Hybrid	76	0.43
SF - Eastern - 18	Concrete Vibrator, 2"	Other Construction Eq	84.7	29	2.9	Gasoline	3	0.42
SF - Eastern - 18	Grove RT Crane 30T	Crane	29	29	0.0	Diesel	160	0.29
SF - Eastern - 18	Grove RT Crane 55T, 247 hp	Crane	42.4	29	1.4	Diesel	247	0.29
SF - Eastern - 18	Manitowoc 555 150T, 250' Boom	Crane	42.4	29	1.4	Diesel	760	0.29
SF - Eastern - 18	Portable, 90 Kw, Diesel, 158HP	Welders	42.4	29	1.4	Diesel Tier 4	158	0.45
SF - Eastern - 19	400A Diesel Welder, Trailer Mounted	Welders	775.6	336	2.3	Diesel	22	0.45
SF - Eastern - 19	Air Compressor 185 cfm	Air Compressor	2198.4	336	6.5	Diesel Tier 4	49	0.48
SF - Eastern - 19	Air Compressor 900 cfm	Air Compressor	775.6	336	2.3	Diesel Tier 4	300	0.48
SF - Eastern - 19	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	35.9	336	0	Diesel or Hybrid	224	0.42
SF - Eastern - 19	Asphalt Rolller, 2 Drum 12tn, 137hp	Roller	35.9	336	0	Diesel or Hybrid	137	0.38
SF - Eastern - 19	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	35.9	336	0	Diesel or Hybrid	133	0.38
SF - Eastern - 19	Bidwell Bridge Deck Screed-Finish, 50 HP	Other Construction E	244.3	336	0.7	Diesel	50	0.42
SF - Eastern - 19	Bobcat S630 Skid Steer Loader	Skid Loader	1115.5	336	3.3	Diesel	74	0.37
SF - Eastern - 19	Boom Truck, 12.5 Tn Boom	Crane	2198.4	336	6.5	Diesel or Hybrid	100	0.29
SF - Eastern - 19	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	749.8	336	2.2	Diesel	110	0.36
SF - Eastern - 19	CAT 14 M	Grader	60.2	336	0.2	Diesel	274	0.41
SF - Eastern - 19	CAT 390 MASS EXC	Excavator	2.5	336	0.0	Diesel	534	0.38
SF - Eastern - 19	CAT 825, Roller	Roller	2.5	336	0.0	Diesel	315	0.38
SF - Eastern - 19	CAT 950 H Wheel Loader	Rubber Tired Loaders	884.5	336	2.6	Diesel or Hybrid	130	0.36
SF - Eastern - 19	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	192.4	336	0.6	Diesel	158	0.38
SF - Eastern - 19	CAT D3 LGP, Dozer	Crawler Tractor	134.6	336	0.4	Diesel or Hybrid	76	0.43
SF - Eastern - 19	CAT D6LGPDozer w winch	Crawler Tractor	5.1	336	0.0	Diesel or Hybrid	179	0.43
SF - Eastern - 19	CAT LOADER/HOE 416 E	Rubber Tired Loaders	580.7	336	1.7	Diesel	78	0.36
SF - Eastern - 19	Compactor, Plate, 22" w x 35"	Plate Compactors	374.9	336	1.1	Diesel	8.5	0.43
SF - Eastern - 19	Concrete Vibrator, 2"	Other Construction Eq	1551.2	336	4.6	Gasoline	3	0.42
SF - Eastern - 19	Disk, Towed	Off Highway Tractor	2.5	336	0.0	Diesel	140	0.44
SF - Eastern - 19	Grove RT Crane 30T	Crane	2198.4	336	6.5	Diesel	160	0.29
SF - Eastern - 19	Grove RT Crane 55T, 247 hp	Crane	775.6	336	2.3	Diesel	247	0.29
SF - Eastern - 19	Manitowoc 555 150T, 250' Boom	Crane	387.8	336	1.2	Diesel	760	0.29
SF - Eastern - 19	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	2198.4	336	6.5	Diesel	75	0.31
SF - Eastern - 19	Portable, 90 Kw, Diesel, 158HP	Welders	775.6	336	2.3	Diesel Tier 4	158	0.45
SF - Eastern - 19	Water Pump, 4" Diesel	Pumps	12	336	0.0	Diesel	10	0.74
SF - Eastern - 20	400A Diesel Welder, Trailer Mounted	Welders	2121.4	715	3.0	Diesel	22	0.45
SF - Eastern - 20	Air Compressor 185 cfm	Air Compressor	5120	715	7.2	Diesel Tier 4	49	0.48
SF - Eastern - 20	Air Compressor 900 cfm	Air Compressor	2121.4	715	3.0	Diesel Tier 4	300	0.48
SF - Eastern - 20	Bidwell Bridge Deck Screed-Finish, 50 HP	Other Construction E	294.1	715	0.4	Diesel	50	0.42
SF - Eastern - 20	Bobcat S630 Skid Steer Loader	Skid Loader	85.7	715	0.1	Diesel	74	0.37
SF - Eastern - 20	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders		715	0.0	Diesel	110	0.36

SF - Eastern - 20	Boom Truck, 12.5 Tn Boom	Crane	4160	715	5.8	Diesel or Hybrid	100	0.29
SF - Eastern - 20	Compactor, Plate, 22" w x 35"	Plate Compactors	85.7	715	0.1	Diesel	8.5	0.43
SF - Eastern - 20	Concrete Vibrator, 2"	Other Construction Eq	6364.1	715	8.9	Gasoline	3	0.42
SF - Eastern - 20	Grove RT Crane 80T, 275hp	Crane	2121.4	715	3.0	Diesel	275	0.29
SF - Eastern - 20	Grove RT Crane 55T, 247 hp	Crane	4870.4	715	6.8	Diesel	247	0.29
SF - Eastern - 20	Manitowoc 555 150T, 250' Boom	Crane	6429	715	9.0	Diesel	760	0.29
SF - Eastern - 20	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	7410.5	715	10.4	Diesel	75	0.31
SF - Eastern - 20	Portable, 90 Kw, Diesel, 158HP	Welders	2121.4	715	3.0	Diesel Tier 4	158	0.45
SF - Eastern - 21	Air Compressor 185 cfm	Air Compressor	3200	926	3.5	Diesel Tier 4	49	0.48
SF - Eastern - 22	400A Diesel Welder, Trailer Mounted	Welders	384	233	1.6	Diesel	22	0.45
SF - Eastern - 22	Manitowoc 555 150T, 250' Boom	Crane	384	233	1.6	Diesel	760	0.29
SF - Eastern - 22	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	96	233	0.4	Diesel	75	0.31
SF - Eastern - 23	Air Compressor 185 cfm	Air Compressor	120.5	201	0.6	Diesel Tier 4	49	0.48
SF - Eastern - 23	Air Compressor 375 cfm	Air Compressor	39.6	201	0.2	Diesel Tier 4	122	0.48
SF - Eastern - 23	Boom Truck, 12.5 Tn Boom	Crane	110.2	201	0.5	Diesel or Hybrid	100	0.29
SF - Eastern - 23	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	1209.4	201	6.0	Diesel	110	0.36
SF - Eastern - 23	CAT 14 M	Grader	25208.8	201	125.6	Diesel	274	0.41
SF - Eastern - 23	Cat 613 C Self Loading Scraper	Scraper	80	201	0.4	Diesel	187	0.48
SF - Eastern - 23	CAT 815, Roller	Roller	711.9	201	3.5	Diesel	170	0.38
SF - Eastern - 23	CAT 950 H Wheel Loader	Rubber Tired Loaders	1209.4	201	6.0	Diesel or Hybrid	130	0.36
SF - Eastern - 23	CAT 962 H Wheel Loader	Rubber Tired Loader	168.8	201	0.8	Diesel	230	0.36
SF - Eastern - 23	CAT 988 H Wheel Loader	Rubber Tired Loader	121.1	201	0.6	Diesel	400	0.36
SF - Eastern - 23	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	208.8	201	1.0	Diesel	158	0.38
SF - Eastern - 23	CAT D6LGPDozer w winch	Crawler Tractor	1931	201	9.6	Diesel or Hybrid	179	0.43
SF - Eastern - 23	CAT D8Ril, Dozer w winch	Crawler Tractor	121.1	201	0.6	Diesel	310	0.43
SF - Eastern - 23	CAT LOADER/HOE 416 E	Rubber Tired Loaders	6329.1	201	31.5	Diesel	78	0.36
SF - Eastern - 23	Compactor, Plate, 22" w x 35"	Plate Compactors	644.3	201	3.2	Diesel	8.5	0.43
SF - Eastern - 23	Grove RT Crane 30T	Crane	120.5	201	0.6	Diesel	160	0.29
SF - Eastern - 23	Grove RT Crane 80T, 275hp	Crane	120.5	201	0.6	Diesel	275	0.29
SF - Eastern - 23	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	1220.9	201	6.1	Diesel	384	0.38
SF - Eastern - 23	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	120.5	201	0.6	Diesel	75	0.31
SF - Eastern - 23	Water Pump, 4" Diesel	Pumps	73.8	201	0.4	Diesel	10	0.74
SF - Eastern - 24	CAT 14 M	Grader	100	181	0.6	Diesel	274	0.41
SF - Eastern - 24	CAT 950 H Wheel Loader	Rubber Tired Loaders	200	181	1.1	Diesel or Hybrid	130	0.36
SF - Eastern - 24	CAT D3 LGP, Dozer	Crawler Tractor	200	181	1.1	Diesel or Hybrid	76	0.43
SF - Eastern - 24	CAT D6LGPDozer w winch	Crawler Tractor	200	181	1.1	Diesel or Hybrid	179	0.43
SF - Eastern - 24	Water Pump, 3" Gas, Diaphragm	Pumps	1600	181	8.9	Gasoline	10	0.74
SF - Eastern - 25	Boom Truck, 12.5 Tn Boom	Crane	3900	445	8.8	Diesel or Hybrid	100	0.29
SF - Eastern - 25	CAT 12 M	Grader	5190.3	445	11.7	Diesel	173	0.41
SF - Eastern - 25	CAT D3 LGP, Dozer	Crawler Tractor	20761.4	445	46.7	Diesel or Hybrid	76	0.43
SF - Eastern - 25	CAT D6LGPDozer w winch	Crawler Tractor	1642.8	445	3.7	Diesel or Hybrid	179	0.43
SF - Eastern - 25	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	279.7	445	0.6	Diesel	345	0.38
SF - Eastern - 25	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	21844.8	445	49.1	Diesel	384	0.38
SF - Eastern - 25	Water Pump, 4" Diesel	Pumps	21900	445	49.2	Diesel	10	0.74
SF - Eastern - 26	Air Compressor 375 cfm	Air Compressor	13550	1355	10	Diesel Tier 4	122	0.48
SF - Eastern - 26	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	20738.5	1355	15.3	Diesel	110	0.36
SF - Eastern - 26	CAT 14 M	Grader	14302.4	1355	10.6	Diesel	274	0.41
SF - Eastern - 26	CAT 390 MASS EXC	Excavator	10332	1355	7.6	Diesel	534	0.38
SF - Eastern - 26	CAT 631G Scraper, Conventional	Scraper	73091.1	1355	53.9	Diesel	515	0.48
SF - Eastern - 26	CAT 825, Roller	Roller	28604.8	1355	21.1	Diesel	315	0.38
SF - Eastern - 26	CAT D6LGPDozer w winch	Crawler Tractor	29800.4	1355	22.0	Diesel or Hybrid	179	0.43
SF - Eastern - 26	CAT D9R, Dozer w ripper	Crawler Tractor	18272.8	1355	13.5	Diesel	410	0.43
SF - Eastern - 26	Disk, Towed	Off Highway Tractor	19468.4	1355	14.4	Diesel	140	0.44
SF - Eastern - 26	DMM Deep Soil Mixer, 3 Shaft	Bore Drill Rig	13550	1355	10	Diesel	522	0.5
SF - Eastern - 26	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	13550	1355	10	Diesel	500	0.34
SF - Eastern - 26	Grove RT Crane 30T	Crane	13550	1355	10	Diesel	160	0.29
SF - Eastern - 26	Portable, 90 Kw, Diesel, 158HP Water Pump, 4" Diesel	Welders	1355	1355	1	Diesel Tier 4	158	0.45
SF - Eastern - 26		Pumps	4259.1	1355	3.1	Diesel	10	0.74
SF - Eastern - 27	CAT 14 M	Grader	119.4	1749	0.1	Diesel	274	0.41
SF - Eastern - 27	Cat 613 C Self Loading Scraper	Scraper	19915.5	1749	11.4	Diesel	187	0.48
SF - Eastern - 27	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	119.4	1749	0.1	Diesel	158	0.38
SF - Eastern - 27	CAT D6LGPDozer w winch	Crawler Tractor	32095.7	1749	18.3	Diesel or Hybrid	179	0.43
SF - Eastern - 27	Disk, Towed	Off Highway Tractor	23282.5	1749	13.3	Diesel	140	0.44
SF - Eastern - 27	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	17148.8	1749	9.8	Diesel	345	0.38
SF - Eastern - 28	CAT 12 M	Grader	996.2	2190	0.5	Diesel	173	0.41
SF - Eastern - 28	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	996.2	2190	0.5	Diesel	158	0.38
SF - Eastern - 28	CAT LOADER/HOE 416 E	Rubber Tired Loaders	14836.9	2190	6.8	Diesel	78	0.36
SF - Eastern - 28	Disk, Towed	Off Highway Tractor	6535	2190	3.0	Diesel	140	0.44
SF - Eastern - 28	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	6535	2190	3.0	Diesel	80	0.44
SF - Eastern - 29	Bobcat 5630 Skid Steer Loader	Skid Loader	107.1	274	0.4	Diesel	74	0.37
SF - Eastern - 29	Brush Chipper, 18" Cap., Trailer Mtd. 173hp	Other Construction	67	274	0.2	Diesel	173	0.42
SF - Eastern - 29	CAT 14 M	Grader	3150.1	274	11.5	Diesel	274	0.41
SF - Eastern - 29	CAT 320D, 1.56 cy, 153 hp	Excavator	67	274	0.2	Diesel	138	0.38
SF - Eastern - 29	Cat 613 C Self Loading Scraper	Scraper	555.3	274	2.0	Diesel	187	0.48
SF - Eastern - 29	CAT 825, Roller	Roller	340.7	274	1.2	Diesel	315	0.38
SF - Eastern - 29	CAT 950 H Wheel Loader	Rubber Tired Loaders	53.6	274	0.2	Diesel or Hybrid	130	0.36
SF - Eastern - 29	CAT 962 H Wheel Loader	Rubber Tired Loader	2093.1	274	7.7	Diesel	230	0.36
SF - Eastern - 29	CAT 966 Gil Wheel Loader	Rubber Tired Loader	2867.8	274	10.5	Diesel	286	0.36
SF - Eastern - 29	CAT 980 H Wheel Loader	Rubber Tired Loader	340.7	274	1.2	Diesel	393	0.36
SF - Eastern - 29	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	2093.1	274	7.7	Diesel	158	0.38
SF - Eastern - 29	CAT D3 LGP, Dozer	Crawler Tractor	26.8	274	0.1	Diesel or Hybrid	76	0.43
SF - Eastern - 29	CAT D6LGPDozer w winch	Crawler Tractor	869	274	3.2	Diesel or Hybrid	179	0.43
SF - Eastern - 29	CAT LOADER/HOE 416 E	Rubber Tired Loaders	1868.4	274	6.8	Diesel	78	0.36
SF - Eastern - 29	Disk, Towed	Off Highway Tractor	507.7	274	1.9	Diesel	140	0.44
SF - Eastern - 29	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	334	274	1.2	Diesel	80	0.44
SF - Eastern - 29	Gradall, 1.50 Cy, 282 Hp	Excavator	2867.8	274	10.5	Diesel	282	0.38
SF - Eastern - 29	Hydro Mulcher, 18 HP	Pumps	167	274	0.6	Diesel	25	0.74
SF - Eastern - 29	Kobelco SK485LC, 2.75cy, 345 hp Komatsu	Excavator	819.6	274	3.0	Diesel	345	0.38
SF - Eastern - 29	PC 600LC-8, 4.25 cy, 384 hp	Excavator	2921.3	274	10.7	Diesel	384	0.38
SF - Eastern - 29	Portable, 20 Kw, Diesel, 36HP	Welders	535.4	274	2.0	Diesel Tier 4	36	0.45
SF - Eastern - 29	Water Pump, 4" Diesel	Pumps	4488.3	274	16.4	Diesel	10	0.74
SF - Eastern - 29	Disk, Towed	Off Highway Tractor	507.7	274	1.9	Diesel	140	0.44
SF - Eastern - 30	400A Diesel Welder, Trailer Mounted	Welders	632.2	185	3.4	Diesel	22	0.45

SF - Eastern - 30	Air Compressor 1600 cfm	Air Compressor	38	185	0.2	Diesel Tier 4	540	0.48
SF - Eastern - 30	Air Compressor 375 cfm	Air Compressor	1110	185	6	Diesel Tier 4	122	0.48
SF - Eastern - 30	Bentonite Mix Plant/Desander	Cement & Mortar Mix	137.5	185	0.7	Diesel Tier 4	100	0.56
SF - Eastern - 30	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	1306.7	185	7.1	Diesel	110	0.36
SF - Eastern - 30	CAT 14 M	Grader	138.6	185	0.7	Diesel	274	0.41
SF - Eastern - 30	CAT 390 MASS EXC	Excavator	137.5	185	0.7	Diesel	534	0.38
SF - Eastern - 30	CAT 631G Scraper, Conventional	Scraper	808.3	185	4.4	Diesel	515	0.48
SF - Eastern - 30	CAT 815, Roller	Roller	618	185	3.3	Diesel	170	0.38
SF - Eastern - 30	CAT 950 H Wheel Loader	Rubber Tired Loaders	171.9	185	0.9	Diesel or Hybrid	130	0.36
SF - Eastern - 30	CAT 962 H Wheel Loader	Rubber Tired Loader	137.5	185	0.7	Diesel	230	0.36
SF - Eastern - 30	CAT 966 GII Wheel Loader	Rubber Tired Loaders	137.6	185	0.7	Diesel	286	0.36
SF - Eastern - 30	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	171.9	185	0.9	Diesel	158	0.38
SF - Eastern - 30	CAT D3 LGP, Dozer	Crawler Tractor	171.9	185	0.9	Diesel or Hybrid	76	0.43
SF - Eastern - 30	CAT D6LGPDozer w winch	Crawler Tractor	977.7	185	5.3	Diesel or Hybrid	179	0.43
SF - Eastern - 30	CAT D9R, Dozer w ripper	Crawler Tractor	269.4	185	1.5	Diesel	410	0.43
SF - Eastern - 30	Concrete Vibrator, 2"	Other Construction Eq	290.3	185	1.6	Gasoline	3	0.42
SF - Eastern - 30	DMM Deep Soil Mixer, 3 Shaft	Bore Drill Rig	1110	185	16	Diesel	522	0.5
SF - Eastern - 30	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	1110	185	16	Diesel	500	0.34
SF - Eastern - 30	Gradall, 1.50 Cy, 282 Hp	Excavator	137.6	185	0.7	Diesel	282	0.38
SF - Eastern - 30	Grove RT Crane 30T	Crane	180	185	1	Diesel	160	0.29
SF - Eastern - 30	Grove RT Crane 55T, 247 hp	Crane	642.5	185	3.5	Diesel	247	0.29
SF - Eastern - 30	Grove RT Crane 80T, 275hp	Crane	137.5	185	0.7	Diesel	275	0.29
SF - Eastern - 30	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	3.9	185	0.0	Diesel	345	0.38
SF - Eastern - 30	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	597.3	185	3.2	Diesel	384	0.38
SF - Eastern - 30	Manitowoc 555 150T, 250' Boom	Crane	550	185	3.0	Diesel	760	0.29
SF - Eastern - 30	Manitowoc 999-275 Ton Crane	Crane	38	185	0.2	Diesel	900	0.29
SF - Eastern - 30	Portable, 20 Kw, Diesel, 36HP	Welders	550	185	3.0	Diesel Tier 4	36	0.45
SF - Eastern - 30	Portable, 90 Kw, Diesel, 158HP Vibro	Welders	80	185	<1	Diesel Tier 4	158	0.45
SF - Eastern - 30	Driver/Extractor V20B	Other Construction Eq	390	185	2.1	Diesel	325	0.42
SF - Eastern - 30	Water Pump, 4" Diesel	Pumps	32.3	185	0.2	Diesel	10	0.74
SF - Eastern - 30	Water Pump, 6" Diesel	Pumps	137.5	185	0.7	Diesel	13	0.74
SF - Eastern - 31	400A Diesel Welder, Trailer Mounted	Welders	1402.1	649	2.2	Diesel	22	0.45
SF - Eastern - 31	Air Compressor 1600 cfm	Air Compressor	683.4	649	1.1	Diesel Tier 4	540	0.48
SF - Eastern - 31	Air Compressor 185 cfm	Air Compressor	350	649	0.5	Diesel Tier 4	49	0.48
SF - Eastern - 31	Air Compressor 375 cfm	Air Compressor	2600	649	4	Diesel Tier 4	122	0.48
SF - Eastern - 31	Bentonite Mix Plant/Desander	Cement & Mortar Mix	3481.1	649	5.4	Diesel Tier 4	100	0.56
SF - Eastern - 31	Boom Truck, 12.5 Tn Boom	Crane	175	649	0.3	Diesel or Hybrid	100	0.29
SF - Eastern - 31	Manitowoc 555 150T, 250' Boom	Crane	324	649	0.5	Diesel	760	0.29
SF - Eastern - 31	Manitowoc 999-275 Ton Crane	Crane	603.4	649	0.9	Diesel	900	0.29
SF - Eastern - 31	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	7727.3	649	11.9	Diesel	110	0.36
SF - Eastern - 31	CAT 14 M	Grader	215.4	649	0.3	Diesel	274	0.41
SF - Eastern - 31	CAT 390 MASS EXC	Excavator	4091.1	649	6.3	Diesel	534	0.38
SF - Eastern - 31	CAT 950 H Wheel Loader	Rubber Tired Loaders	33.3	649	0.1	Diesel or Hybrid	130	0.36
SF - Eastern - 31	CAT 962 H Wheel Loader	Rubber Tired Loader	3481.1	649	5.4	Diesel	230	0.36
SF - Eastern - 31	CAT 973 Track Loader, 4.2 cy, 263hp	Skid Loader	244	649	0.4	Diesel or Hybrid	210	0.37
SF - Eastern - 31	CAT CS-64, Roller, 15.7 tn, 156HP	Rollers	35.3	649	0.1	Diesel	158	0.38
SF - Eastern - 31	CAT D6LGPDozer w winch	Crawler Tractor	3481.1	649	5.4	Diesel or Hybrid	179	0.43
SF - Eastern - 31	CAT D3 LGP, Dozer	Crawler Tractor	33.3	649	0.1	Diesel or Hybrid	76	0.43
SF - Eastern - 31	CAT D8Ril, Dozer w winch	Crawler Tractor	410.8	649	0.6	Diesel	310	0.43
SF - Eastern - 31	Concrete Vibrator, 2"	Other Construction Eq	4622.9	649	7.1	Gasoline	3	0.42
SF - Eastern - 31	DMM Deep Soil Mixer, 3 Shaft	Bore Drill Rig	2600	649	4	Diesel	522	0.5
SF - Eastern - 31	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	2600	649	4	Diesel	500	0.34
SF - Eastern - 31	Grove RT Crane 30T	Crane	2600	649	4	Diesel	160	0.29
SF - Eastern - 31	Grove RT Crane 55T, 247 hp	Crane	472.5	649	0.7	Diesel	247	0.29
SF - Eastern - 31	Grove RT Crane 80T, 275hp	Crane	3811.3	649	5.9	Diesel	275	0.29
SF - Eastern - 31	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	175	649	0.3	Diesel	75	0.31
SF - Eastern - 31	Komatsu PC 600LC-8, 4.25 cy, 384 hp	Excavator	815.4	649	1.3	Diesel	384	0.38
SF - Eastern - 31	Portable, 90 Kw, Diesel, 158HP	Welders	300	649	<1	Diesel Tier 4	158	0.45
SF - Eastern - 31	Water Pump, 6" Diesel	Pumps	3481.1	649	5.4	Diesel	13	0.74
SF - Eastern - 31	Water Pump, 4" Diesel	Pumps	62.3	649	0.1	Diesel	10	0.74
SF - Eastern - 31	Well Drill	Bore/Drill Rigs	200	649	0.3	Diesel	136	0.5
SF - Eastern - 32	400A Diesel Welder, Trailer Mounted	Welders	948.9	136	7.0	Diesel	22	0.45
SF - Eastern - 32	Air Compressor 185 cfm	Air Compressor	500	136	3.7	Diesel Tier 4	49	0.48
SF - Eastern - 32	Air Compressor 375 cfm	Air Compressor	60	136	0.4	Diesel Tier 4	122	0.48
SF - Eastern - 32	Boom Truck, 12.5 Tn Boom	Crane	616.1	136	4.5	Diesel or Hybrid	100	0.29
SF - Eastern - 32	CAT IT28H, 10640 LB Tool Carrier	Rubber Tired Loaders	222.2	136	1.6	Diesel	145	0.36
SF - Eastern - 32	Grove RT Crane 30T	Crane	500	136	3.7	Diesel	160	0.29
SF - Eastern - 32	Grove RT Crane 15T, 100hp	Crane	116.1	136	0.9	Diesel	100	0.29
SF - Eastern - 32	Grove RT Crane 80T, 275hp	Crane	1018	136	7.5	Diesel	275	0.29
SF - Eastern - 32	Manitowoc 555 150T, 250' Boom	Crane	237.2	136	1.7	Diesel	760	0.29
SF - Eastern - 32	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	500	136	3.7	Diesel	75	0.31
SF - Eastern - 33	Air Compressor 375 cfm	Air Compressor	5680	256	22.2	Diesel Tier 4	122	0.48
SF - Eastern - 33	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	5680	256	22.2	Diesel	110	0.36
SF - Eastern - 33	CAT 825, Roller	Roller	324	256	1.3	Diesel	315	0.38
SF - Eastern - 33	CAT 980 H Wheel Loader	Rubber Tired Loader	324	256	1.3	Diesel	393	0.36
SF - Eastern - 33	CAT CB-634D Vibratory 84"	Rollers	324	256	1.3	Diesel	145	0.38
SF - Eastern - 33	CAT D8 Dozer	Crawler Tractor	324	256	1.3	Diesel	328	0.43
SF - Eastern - 33	CAT Forklift 5,500 LB	Aerial Lift	800	256	3.1	Diesel	63	0.31
SF - Eastern - 33	CAT Grader 16H	Graders	324	256	1.3	Diesel	285	0.41
SF - Eastern - 33	DMM Deep Soil Mixer, 3 Shaft,	Bore Drill Rig	2560	256	10	Diesel	522	0.5
SF - Eastern - 33	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	5680	256	22.2	Diesel	500	0.34
SF - Eastern - 33	Grove RT Crane 30T	Crane	5680	256	22.2	Diesel	160	0.29
SF - Eastern - 33	Hydraulic 40 Ton Crane	Crane	800	256	3.1	Diesel	300	0.29
SF - Eastern - 33	Hydraulic 9 Ton Crane	Crane	2201	256	8.6	Diesel	85	0.29
SF - Eastern - 33	Portable, 90 Kw, Diesel, 158HP	Welders	500	256	2	Diesel Tier 4	158	0.45
SF - Eastern - 34	Air Compressor 1600 cfm	Air Compressor	639	771	0.8	Diesel Tier 4	540	0.48
SF - Eastern - 34	250 CFM Compressor Diesel	Air Compressor	146	771	0.2	Diesel Tier 3	75	0.74
SF - Eastern - 34	CAT 950 H Wheel Loader	Rubber Tired Loaders	1028.6	771	1.3	Diesel or Hybrid	130	0.36
SF - Eastern - 34	CAT CB-634D Vibratory 84"	Rollers	3090	771	4.0	Diesel	145	0.38
SF - Eastern - 34	CAT D8 Dozer	Crawler Tractor	3090	771	4.0	Diesel	328	0.43
SF - Eastern - 34	CAT Forklift 5,500 LB	Aerial Lift	16	771	0.0	Diesel	63	0.31
SF - Eastern - 34	CAT Grader 16H	Graders	3090	771	4.0	Diesel	285	0.41
SF - Eastern - 34	CAT Hyd Excavator 1CY	Excavator	785.6	771	1.0	Diesel	138	0.38
SF - Eastern - 34	Hydraulic 40 Ton Crane	Crane	304.6	771	0.4	Diesel	300	0.29
SF - Eastern - 34	Hydraulic 9 Ton Crane	Crane	16	771	0.0	Diesel	85	0.29
SF - Eastern - 34	Hydraulic 55 Ton Crane	Crane	1278	771	1.7	Diesel	350	0.29
SF - Eastern - 34	Manitowoc 777 200 Ton Crane	Crane	2365	771	3.1	Diesel	760	0.29
SF - Eastern - 34	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	639	771	1	Diesel	8	0.56
SF - Eastern - 34	Slurry Wall Techniwell	Pumps	639	771	1	Diesel	500	0.74

SF - Eastern - 35	150 KW Diesel Generator	Generator	100	88	1.1	Diesel Tier 4	183	0.74
SF - Eastern - 35	Air Compressor 1600 cfm	Air Compressor	160	88	1.8	Diesel Tier 4	540	0.48
SF - Eastern - 35	250 CFM Compressor Diesel	Air Compressor	1647.3	88	18.7	Diesel Tier 3	75	0.74
SF - Eastern - 35	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	295	88	3.4	Diesel Tier 4	210	0.38
SF - Eastern - 35	Water Pump, 6" Diesel	Pumps	400	88	4.6	Diesel	13	0.74
SF - Eastern - 35	Hydraulic 40 Ton Crane	Crane	760	88	8.7	Diesel	300	0.29
SF - Eastern - 35	Manitowoc 777 200 Ton Crane	Crane	922.9	88	10.5	Diesel	760	0.29
SF - Eastern - 35	Manitowoc 999-275 Ton Crane	Crane	393.6	88	4.5	Diesel	900	0.29
SF - Eastern - 35	Telescope RT Forklift 5500	Forklift	160	88	1.8	Diesel	63	0.2
SF - Eastern - 35	Truck Crane Lattice Boom 90T	Crane	160	88	1.8	Diesel Tier 4	300	0.29
SF - Eastern - 36	250 CFM Compressor Diesel	Air Compressor	5103.9	344	14.8	Diesel Tier 3	75	0.74
SF - Eastern - 36	CAT 988 H Wheel Loader	Rubber Tired Loader	2300	344	6.7	Diesel	400	0.36
SF - Eastern - 36	CAT D8 Dozer	Crawler Tractor	2300	344	6.7	Diesel	328	0.43
SF - Eastern - 36	CAT Forklift 5,500 LB	Aerial Lift	2590	344	7.5	Diesel	63	0.31
SF - Eastern - 36	Hydraulic 40 Ton Crane	Crane	2990	344	8.7	Diesel	300	0.29
SF - Eastern - 36	Hydraulic 9 Ton Crane	Crane	2590	344	7.5	Diesel	85	0.29
SF - Eastern - 37	Air Compressor 1600 cfm	Air Compressor	100	35	2.9	Diesel Tier 4	540	0.48
SF - Eastern - 37	Hydraulic 40 Ton Crane	Crane	100	35	2.9	Diesel	300	0.29
SF - Eastern - 37	Hydraulic 55 Ton Crane	Crane	715	35	20.4	Diesel	350	0.29
SF - Eastern - 37	Manitowoc 777 200 Ton Crane	Crane	715	35	20.4	Diesel	760	0.29
SF - Eastern - 37	Telescope RT Forklift 5500	Forklift	424	35	12.1	Diesel	63	0.2
SF - Eastern - 37	Truck Crane Lattice Boom 90T	Crane	100	35	2.9	Diesel Tier 4	300	0.29
SF - Eastern - 38	150 KW Diesel Generator	Generator	100	961	0.1	Diesel Tier 4	183	0.74
SF - Eastern - 38	Air Compressor 1600 cfm	Air Compressor	639	961	0.7	Diesel Tier 4	540	0.48
SF - Eastern - 38	250 CFM Compressor Diesel	Air Compressor	146	961	0.2	Diesel Tier 3	75	0.74
SF - Eastern - 38	Air Compressor 375 cfm	Air Compressor	2133	961	2.2	Diesel Tier 4	122	0.48
SF - Eastern - 38	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	2133	961	2.2	Diesel	110	0.36
SF - Eastern - 38	CAT 950 H Wheel Loader	Rubber Tired Loaders	1028.6	961	1.1	Diesel or Hybrid	130	0.36
SF - Eastern - 38	CAT CB-634D Vibratory 84"	Rollers	3090	961	3.2	Diesel	145	0.38
SF - Eastern - 38	CAT D8 Dozer	Crawler Tractor	3090	961	3.2	Diesel	328	0.43
SF - Eastern - 38	CAT Forklift 5,500 LB	Aerial Lift	16	961	0.0	Diesel	63	0.31
SF - Eastern - 38	CAT Grader 16H	Graders	3090	961	3.2	Diesel	285	0.41
SF - Eastern - 38	CAT Hyd Excavator 1CY	Excavator	405.6	961	0.4	Diesel	138	0.38
SF - Eastern - 38	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	1278	961	1.3	Diesel Tier 4	210	0.38
SF - Eastern - 38	Water Pump, 6" Diesel	Pumps	400	961	0.4	Diesel	13	0.74
SF - Eastern - 38	DMM Deep Soil Mixer, 3 Shaft	Bore Drill Rig	2133	961	2.2	Diesel	522	0.5
SF - Eastern - 38	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	2133	961	2.2	Diesel	500	0.34
SF - Eastern - 38	Grove RT Crane 30T	Crane	2133	961	2.2	Diesel	160	0.29
SF - Eastern - 38	Hydraulic 40 Ton Crane	Crane	304.6	961	0.3	Diesel	300	0.29
SF - Eastern - 38	Hydraulic 9 Ton Crane	Crane	116	961	0.1	Diesel	85	0.29
SF - Eastern - 38	Hydraulic 55 Ton Crane	Crane	1278	961	1.3	Diesel	350	0.29
SF - Eastern - 38	CAT Hyd Excavator 1CY	Excavator	380	961	0.4	Diesel	138	0.38
SF - Eastern - 38	Manitowoc 777 200 Ton Crane	Crane	1726	961	1.8	Diesel	760	0.29
SF - Eastern - 38	Manitowoc 200 Ton Crane	Crane	639	961	0.7	Diesel	760	0.29
SF - Eastern - 38	Portable, 90 Kw, Diesel, 158HP	Welders	500	961	0.4	Diesel Tier 4	158	0.45
SF - Eastern - 38	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	639	961	1	Diesel	8	0.56
SF - Eastern - 38	Slurry Wall Techniwell	Pumps	639	961	1	Diesel	500	0.74
SF - Eastern - 39	Air Compressor 1600 cfm	Air Compressor	160	277	0.6	Diesel Tier 4	540	0.48
SF - Eastern - 39	250 CFM Compressor Diesel	Air Compressor	1647.3	277	5.9	Diesel Tier 3	75	0.74
SF - Eastern - 39	Telescope RT Forklift 5500	Forklift	160	277	0.6	Diesel	63	0.2
SF - Eastern - 39	Truck Crane Lattice Boom 90T	Crane	160	277	0.6	Diesel Tier 4	300	0.29
SF - Eastern - 39	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	0	277	0.0	Diesel Tier 4	210	0.38
SF - Eastern - 39	Hydraulic 40 Ton Crane	Crane	660	277	2.4	Diesel	300	0.29
SF - Eastern - 39	Manitowoc 777 200 Ton Crane	Crane	922.9	277	3.3	Diesel	760	0.29
SF - Eastern - 39	Manitowoc 999-275 Ton Crane	Crane	393.6	277	1.4	Diesel	900	0.29
SF - Eastern - 40	250 CFM Compressor Diesel	Air Compressor	5115.3	417	12.3	Diesel Tier 3	75	0.74
SF - Eastern - 40	CAT 988 H Wheel Loader	Rubber Tired Loader	2305	417	5.5	Diesel	400	0.36
SF - Eastern - 40	CAT D8 Dozer	Crawler Tractor	2305	417	5.5	Diesel	328	0.43
SF - Eastern - 40	CAT Forklift 5,500 LB	Aerial Lift	2504	417	6.0	Diesel	63	0.31
SF - Eastern - 40	Hydraulic 40 Ton Crane	Crane	2904	417	7.0	Diesel	300	0.29
SF - Eastern - 40	Hydraulic 9 Ton Crane	Crane	2504	417	6.0	Diesel	85	0.29
SF - Eastern - 41	Air Compressor 1600 cfm	Air Compressor	100	35	2.9	Diesel Tier 4	540	0.48
SF - Eastern - 41	Hydraulic 40 Ton Crane	Crane	100	35	2.9	Diesel	300	0.29
SF - Eastern - 41	Hydraulic 55 Ton Crane	Crane	802	35	22.9	Diesel	350	0.29
SF - Eastern - 41	Manitowoc 777 200 Ton Crane	Crane	715	35	20.4	Diesel	760	0.29
SF - Eastern - 41	Telescope RT Forklift 5500	Forklift	424	35	12.1	Diesel	63	0.2
SF - Eastern - 41	Truck Crane Lattice Boom 90T	Crane	100	35	2.9	Diesel Tier 4	300	0.29
SF - Eastern - 42	Air Compressor 375 cfm	Air Compressor	3547	1660	2.1	Diesel Tier 4	122	0.48
SF - Eastern - 42	Case 590 SupN Loader/Hoe, 110 hp	Rubber Tired Loaders	3547	1660	2.1	Diesel	110	0.36
SF - Eastern - 42	CAT 825, Roller	Roller	202	1660	0.1	Diesel	315	0.38
SF - Eastern - 42	CAT 980 H Wheel Loader	Rubber Tired Loader	202	1660	0.1	Diesel	393	0.36
SF - Eastern - 42	CAT CB-634D Vibratory 84"	Rollers	4054.4	1660	2.4	Diesel	145	0.38
SF - Eastern - 42	CAT D8 Dozer	Crawler Tractor	4054.4	1660	2.4	Diesel	328	0.43
SF - Eastern - 42	CAT Forklift 5,500 LB	Aerial Lift	400	1660	0.2	Diesel	63	0.31
SF - Eastern - 42	CAT Grader 16H	Graders	4054.4	1660	2.4	Diesel	285	0.41
SF - Eastern - 42	DMM Deep Soil Mixer, 3 Shaft	Bore Drill Rig	3547	1660	2.1	Diesel	522	0.5
SF - Eastern - 42	DMM Grout Mix Plant w Delivery Pump & Silos	Other Industrial Equip	3547	1660	2.1	Diesel	500	0.34
SF - Eastern - 42	Grove RT Crane 30T	Crane	3547	1660	2.1	Diesel	160	0.29
SF - Eastern - 42	Hydraulic 40 Ton Crane	Crane	400	1660	0.2	Diesel	300	0.29
SF - Eastern - 42	Hydraulic 9 Ton Crane	Crane	463	1660	0.3	Diesel	85	0.29
SF - Eastern - 42	Portable, 90 Kw, Diesel, 158HP	Welders	800	1660	0.4	Diesel Tier 4	158	0.45
SF - Eastern - 43	150 KW Diesel Generator	Generator	100	239	0.4	Diesel Tier 4	183	0.74
SF - Eastern - 43	Air Compressor 1600 cfm	Air Compressor	639	239	2.7	Diesel Tier 4	540	0.48
SF - Eastern - 43	250 CFM Compressor Diesel	Air Compressor	146	239	0.6	Diesel Tier 3	75	0.74
SF - Eastern - 43	CAT 825, Roller	Roller	122	239	0.5	Diesel	315	0.38
SF - Eastern - 43	CAT 950 H Wheel Loader	Rubber Tired Loaders	1028.6	239	4.3	Diesel or Hybrid	130	0.36
SF - Eastern - 43	CAT 980 H Wheel Loader	Rubber Tired Loader	122	239	0.5	Diesel	393	0.36
SF - Eastern - 43	CAT CB-634D Vibratory 84"	Rollers	122	239	0.5	Diesel	145	0.38
SF - Eastern - 43	CAT D8 Dozer	Crawler Tractor	122	239	0.5	Diesel	328	0.43
SF - Eastern - 43	CAT Forklift 5,500 LB	Aerial Lift	16	239	0.1	Diesel	63	0.31
SF - Eastern - 43	CAT Grader 16H	Graders	122	239	0.5	Diesel	285	0.41
SF - Eastern - 43	CAT Hyd Excavator 1CY	Excavator	405.6	239	1.7	Diesel	138	0.38
SF - Eastern - 43	Water Pump, 6" Diesel	Pumps	400	239	1.7	Diesel	13	0.74
SF - Eastern - 43	Hydraulic 40 Ton Crane	Crane	304.6	239	1.3	Diesel	300	0.29
SF - Eastern - 43	Hydraulic 9 Ton Crane	Crane	654	239	2.7	Diesel	85	0.29

SF - Eastern - 43	Hydraulic 55 Ton Crane	Crane	639	239	2.7	Diesel	350	0.29
SF - Eastern - 43	CAT Hyd Excavator 1CY	Excavator	380	239	1.6	Diesel	138	0.38
SF - Eastern - 43	Manitowoc 200 Ton Crane	Crane	562	239	2.4	Diesel	760	0.29
SF - Eastern - 43	Manitowoc 777 200 Ton Crane	Crane	1543	239	6.5	Diesel	760	0.29
SF - Eastern - 43	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	639	239	3	Diesel	8	0.56
SF - Eastern - 43	Slurry Wall Techniwell	Pumps	639	239	3	Diesel	500	0.74
SF - Eastern - 44	250 CFM Compressor Diesel	Air Compressor	965.9	91	10.6	Diesel Tier 3	75	0.74
SF - Eastern - 44	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	0	91	0.0	Diesel Tier 4	210	0.38
SF - Eastern - 44	Manitowoc 777 200 Ton Crane	Crane	829	91	9.1	Diesel	760	0.29
SF - Eastern - 44	Manitowoc 999-275 Ton Crane	Crane	306.1	91	3.3	Diesel	900	0.29
SF - Eastern - 45	CAT 631G Scraper, Conventional	Scraper		165	0.0	Diesel	515	0.48
SF - Eastern - 45	CAT 980 H Wheel Loader	Rubber Tired Loader	1334.6	165	8.1	Diesel	393	0.36
SF - Eastern - 45	CAT CB-634D Vibratory 84"	Rollers	3033	165	18.4	Diesel	145	0.38
SF - Eastern - 45	CAT D8 Dozer	Crawler Tractor	4367.6	165	26.5	Diesel	328	0.43
SF - Eastern - 45	CAT Grader 16H	Graders	4367.6	165	26.5	Diesel	285	0.41
SF - Eastern - 46	150 KW Diesel Generator	Generator	0	443	0	Diesel Tier 4	183	0.74
SF - Eastern - 46	Air Compressor 1600 cfm	Air Compressor	639	443	1.4	Diesel Tier 4	540	0.48
SF - Eastern - 46	250 CFM Compressor Diesel	Air Compressor	145	443	0.3	Diesel Tier 3	75	0.74
SF - Eastern - 46	CAT 950 H Wheel Loader	Rubber Tired Loaders	1028.6	443	2.3	Diesel or Hybrid	130	0.36
SF - Eastern - 46	CAT CB-634D Vibratory 84"	Rollers	3445	443	7.8	Diesel	145	0.38
SF - Eastern - 46	CAT D8 Dozer	Crawler Tractor	3445	443	7.8	Diesel	328	0.43
SF - Eastern - 46	CAT Forklift 5,500 LB	Aerial Lift	96	443	0.2	Diesel	63	0.31
SF - Eastern - 46	CAT Grader 16H	Graders	3445	443	7.8	Diesel	285	0.41
SF - Eastern - 46	CAT Hyd Excavator 1CY	Excavator	405.6	443	0.9	Diesel	138	0.38
SF - Eastern - 46	Water Pump, 6" Diesel	Pumps	400	443	0.9	Diesel	13	0.74
SF - Eastern - 46	Hydraulic 40 Ton Crane	Crane	384.6	443	0.9	Diesel	300	0.29
SF - Eastern - 46	Hydraulic 9 Ton Crane	Crane	196	443	0.4	Diesel	85	0.29
SF - Eastern - 46	Hydraulic 55 Ton Crane	Crane	1201	443	2.7	Diesel	350	0.29
SF - Eastern - 46	CAT Hyd Excavator 1CY	Excavator	380	443	0.9	Diesel	138	0.38
SF - Eastern - 46	Manitowoc 777 200 Ton Crane	Crane	1543	443	3.5	Diesel	760	0.29
SF - Eastern - 46	Manitowoc 200 Ton Crane	Crane	562	443	1.3	Diesel	760	0.29
SF - Eastern - 46	Slurry Wall Mixer & Desander & Stop End & Tank	Cement & Mortar Mix	639	443	1	Diesel	8	0.56
SF - Eastern - 46	Slurry Wall Techniwell	Pumps	639	443	1	Diesel	500	0.74
SF - Eastern - 47	Air Compressor 1600 cfm	Air Compressor	149.3	59	2.5	Diesel Tier 4	540	0.48
SF - Eastern - 47	250 CFM Compressor Diesel	Air Compressor	965.9	59	16.3	Diesel Tier 3	75	0.74
SF - Eastern - 47	Hydraulic 40 Ton Crane	Crane	149.3	59	2.5	Diesel	300	0.29
SF - Eastern - 47	Manitowoc 777 200 Ton Crane	Crane	829	59	14.0	Diesel	760	0.29
SF - Eastern - 47	Manitowoc 999-275 Ton Crane	Crane	306.1	59	5.2	Diesel	900	0.29
SF - Eastern - 47	Telescope RT Forklift 5500	Forklift	149.3	59	2.5	Diesel	63	0.2
SF - Eastern - 47	Truck Crane Lattice Boom 90T	Crane	149.3	59	2.5	Diesel Tier 4	300	0.29
SF - Eastern - 48	250 CFM Compressor Diesel	Air Compressor	33898.4	1980	17.1	Diesel Tier 3	75	0.74
SF - Eastern - 48	CAT 988 H Wheel Loader	Rubber Tired Loader	16195.2	1980	8.2	Diesel	400	0.36
SF - Eastern - 48	CAT D8 Dozer	Crawler Tractor	16195.2	1980	8.2	Diesel	328	0.43
SF - Eastern - 48	CAT Forklift 5,500 LB	Aerial Lift	15360.8	1980	7.8	Diesel	63	0.31
SF - Eastern - 48	Hydraulic 40 Ton Crane	Crane	16200.8	1980	8.2	Diesel	300	0.29
SF - Eastern - 48	Hydraulic 9 Ton Crane	Crane	15360	1980	7.8	Diesel	85	0.29
SF - Eastern - 48	Manitowoc 777 200 Ton Crane	Crane	373.3	1980	0.2	Diesel	760	0.29
SF - Eastern - 49	Air Compressor 1600 cfm	Air Compressor	93.3	70	1.3	Diesel Tier 4	540	0.48
SF - Eastern - 49	CAT Forklift 5,500 LB	Aerial Lift	0	70	0.0	Diesel	63	0.31
SF - Eastern - 49	Hydraulic 9 Ton Crane	Crane	0	70	0.0	Diesel	85	0.29
SF - Eastern - 49	Hydraulic 40 Ton Crane	Crane	93.3	70	1.3	Diesel	300	0.29
SF - Eastern - 49	Hydraulic 55 Ton Crane	Crane	667.3	70	9.5	Diesel	350	0.29
SF - Eastern - 49	Manitowoc 777 200 Ton Crane	Crane	667.3	70	9.5	Diesel	760	0.29
SF - Eastern - 49	Telescope RT Forklift 5500	Forklift	980	70	14.0	Diesel	63	0.2
SF - Eastern - 49	Truck Crane Lattice Boom 90T	Crane	93.3	70	1.3	Diesel Tier 4	300	0.29
SF - Eastern - 50	400A Diesel Welder, Trailer Mounted	Welders	384	40	9.6	Diesel	22	0.45
SF - Eastern - 50	Air Compressor 1600 cfm	Air Compressor	384	40	9.6	Diesel Tier 4	540	0.48
SF - Eastern - 50	Boom Truck, 12.5 Tn Boom	Crane	192	40	4.8	Diesel or Hybrid	100	0.29
SF - Eastern - 50	Grove RT Crane 80T, 275hp	Crane	384	40	9.6	Diesel	275	0.29
SF - Eastern - 50	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	192	40	4.8	Diesel	75	0.31
SF - Eastern - 51	Air Compressor 1600 cfm	Air Compressor	400	39	10.2	Diesel Tier 4	540	0.48
SF - Eastern - 51	Boom Truck, 12.5 Tn Boom	Crane	200	39	5.1	Diesel or Hybrid	100	0.29
SF - Eastern - 51	Grove RT Crane 80T, 275hp	Crane	400	39	10.2	Diesel	275	0.29
SF - Eastern - 51	Man-Lift, 54', 500 LB, 24' Reach, 4x4	Aerial Lifts	200	39	5.1	Diesel	75	0.31
SF - Eastern - 52	400A Diesel Welder, Trailer Mounted	Welders	3421	2593	1.3	Diesel	22	0.45
SF - Eastern - 52	Bobcat S630 Skid Steer Loader	Skid Loader	17104.9	2593	6.6	Diesel	74	0.37
SF - Eastern - 52	CAT 962 H Wheel Loader	Rubber Tired Loader	34440.5	2593	13.3	Diesel	230	0.36
SF - Eastern - 52	Conc Pump, Trk Mtd, 117 cy/hr, 210hp	Pumps	8287.3	2593	3.2	Diesel Tier 4	210	0.38
SF - Eastern - 52	Portable, 300 Kw, Diesel, 36HP	Welders	34209.7	2593	13.2	Diesel Tier 4	400	0.45
SF - Eastern - 53	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	101	12	8	Diesel or Hybrid	224	0.42
SF - Eastern - 53	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	101	12	8	Diesel or Hybrid	137	0.38
SF - Eastern - 53	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	101	12	8	Diesel or Hybrid	133	0.38
SF - Eastern - 53	CAT LOADER/HOE 416 E	Rubber Tired Loaders	101	12	8.4	Diesel	78	0.36
SF - Eastern - 54	Asphalt Paver, 10-12 Ft Wide, Cat 224 HP	Paver	101	10	10	Diesel or Hybrid	224	0.42
SF - Eastern - 54	Asphalt Roller, 2 Drum 12tn, 137hp	Roller	101	10	10	Diesel or Hybrid	137	0.38
SF - Eastern - 54	Asphalt Roller, 17.6 Tn Pneumatic, 133hp	Roller	101	10	10	Diesel or Hybrid	133	0.38
SF - Eastern - 54	CAT LOADER/HOE 416 E	Rubber Tired Loaders	101	10	10.1	Diesel	78	0.36
SF - Eastern - 55	CAT 12 M	Grader	210	239	0.9	Diesel	173	0.41
SF - Eastern - 55	CAT 390 MASS EXC	Excavator	200	239	0.8	Diesel	534	0.38
SF - Eastern - 55	CAT D8RII, Dozer w winch	Crawler Tractor	2000	239	8.4	Diesel	310	0.43
SF - Eastern - 55	CAT 631G Scraper, Conventional	Scraper	2000	239	8.4	Diesel	515	0.48
SF - Eastern - 55	Disk, Towed	Off Highway Tractor	320	239	1.3	Diesel	140	0.44
SF - Eastern - 55	CAT 966 Gil Wheel Loader	Rubber Tired Loaders	40	239	0.2	Diesel	286	0.36
SF - Eastern - 55	CAT D9R, Dozer w ripper	Crawler Tractor	1180	239	4.9	Diesel	410	0.43
SF - Eastern - 55	Farm Tractor, All Wheel Drive, 80 HP	Off Highway Tractor	1240	239	5.2	Diesel	80	0.44
SF - Eastern - 55	Hydro Mulcher, 18 HP	Pumps	120	239	0.5	Diesel	25	0.74
SF - Eastern - 55	Kobelco SK485LC, 2.75cy, 345 hp	Excavator	1000	239	4.2	Diesel	345	0.38

**Offroad Equipment (Electric) Inventory for Southern Complex on Byron Tract - Eastern
Option 8**

Electricity for TBM Operations included in the Summary Workbook

Code	Equipment Name	Hours	# day	kW	kWh/day / equipment
SF - Eastern - 1	400A, Electric Welder	8.9	207	15	0.644
SF - Eastern - 2	400A, Electric Welder	44.4	323	15	2.063
SF - Eastern - 6	400A, Electric Welder	790.9	759.3	15	15.624
SF - Eastern - 6	Water Pump, 4" Electrical, Submersible	15820	15187.2	1	1.042
SF - Eastern - 7	400A, Electric Welder	2815.9	261	15	161.568
SF - Eastern - 9	400A, Electric Welder	960	212	15	67.879
SF - Eastern - 9	Water Pump, 4" Electrical, Submersible	576	212	1	2.715
SF - Eastern - 10	Water Pump, 4" Electrical, Submersible	46.8	81	1	0.580
SF - Eastern - 11	400A, Electric Welder	890	283	15	47.197
SF - Eastern - 12	400A, Electric Welder	3251.8	691	15	70.545
SF - Eastern - 12	Water Pump, 4" Electrical, Submersible	7833.9	691	1	11.330
SF - Eastern - 13	400A, Electric Welder	4528.7	834	15	81.424
SF - Eastern - 13	Water Pump, 4" Electrical, Submersible	3867.4	834	1	4.636
SF - Eastern - 14	Water Pump, 4" Electrical, Submersible	6058.8	623	1	9.727
SF - Eastern - 15B	400A, Electric Welder	76.8	352	15	3.271
SF - Eastern - 15B	Water Pump, 4" Electrical, Submersible	972.3	352	1	2.761
SF - Eastern - 16	400A, Electric Welder	1100.8	154	15	107.022
SF - Eastern - 16	Water Pump, 4" Electrical, Submersible	578.1	154	1	3.747
SF - Eastern - 17	400A, Electric Welder	1232	33	15	562.435
SF - Eastern - 17	Water Pump, 4" Electrical, Submersible	155.4	33	1	4.730
SF - Eastern - 18	400A, Electric Welder	0.2	29	15	0.102
SF - Eastern - 18	Water Pump, 4" Electrical, Submersible	84.7	29	1	2.892
SF - Eastern - 19	400A, Electric Welder	2198.4	336	15	98.226
SF - Eastern - 19	Water Pump, 4" Electrical, Submersible	1551.2	336	1	4.621
SF - Eastern - 20	400A, Electric Welder	5817.9	715	15	122.054
SF - Eastern - 20	Water Pump, 4" Electrical, Submersible	242.8	715	1	0.340
SF - Eastern - 21	400A, Electric Welder	3200	926	15	51.852
SF - Eastern - 23	400A, Electric Welder	120.5	201	15	9.005
SF - Eastern - 26	Water Pump, 4" Electrical, Submersible	20738.5	1355	1	15.305
SF - Eastern - 29	Water Pump, 6" Electrical, Submersible	535.4	274	1	1.957
SF - Eastern - 30	Water Pump, 4" Electrical, Submersible	1173	185	1	6.341
SF - Eastern - 30	Water Pump, 6" Electrical, Submersible	38	185	1	0.205
SF - Eastern - 31	400A, Electric Welder	350	649	15	8.095
SF - Eastern - 31	Water Pump, 4" Electrical, Submersible	21569.1	649	1	33.256
SF - Eastern - 31	Water Pump, 6" Electrical, Submersible	506.6	649	1	0.781
SF - Eastern - 32	400A, Electric Welder	500	136	15	55.263
SF - Eastern - 33	Water Pump, 4" Electrical, Submersible	5680	256	1	22.212
SF - Eastern - 35	Gantry Crane	500	88	0.25	1
SF - Eastern - 36	Axial Fan 114,000 CFM	18465	344	50	2,686
SF - Eastern - 36	Gantry Crane	9170	344	0.25	7
SF - Eastern - 38	Water Pump, 4" Electrical, Submersible	2133	961	1	2.220

SF - Eastern - 39	Gantry Crane	500	277	0.25	0
SF - Eastern - 40	Axial Fan 114,000 CFM	18491	417	50	2,219
SF - Eastern - 40	Gantry Crane	9181	417	0.25	6
SF - Eastern - 41	Gantry Crane	237	35	0.25	2
SF - Eastern - 42	Water Pump, 4" Electrical, Submersible	3852.4	1660	1	2.321
SF - Eastern - 43	Water Pump, 4" Electrical, Submersible	400	239	1	1.677
SF - Eastern - 48	Axial Fan 114,000 CFM	268714.4	1980	50	6,786
SF - Eastern - 48	Gantry Crane	65965.2	1980	0.25	8
SF - Eastern - 49	Gantry Crane	1260	70	0.25	5
SF - Eastern - 50	400A, Electric Welder	384	40	15	144.000
SF - Eastern - 51	400A, Electric Welder	400	39	15	152.727
SF-Eastern - 3	Light Plant, 4 lite, 1000w	1864.4	253		
SF-Eastern - 4	Light Plant, 4 lite, 1000w	813.4	227		
SF-Eastern - 14	Light Plant, 4 lite, 1000w	345.6	623		
SF-Eastern - 26	Light Plant, 4 lite, 1000w	124751.1	1355		
SF-Eastern - 29	Light Plant, 4 lite, 1000w	67	274		
SF-Eastern - 30	Light Plant, 4 lite, 1000w	1077.7	185		

Vehicle Inventory for Southern Complex on Byron Tract - Eastern
Option 8

Code	Vehicle	Primary Trip Purpose/Location (within construction footprint vs.)	# day	Vehicle Hours	Hours/trip	# of Vehicles/trip	One-Way Trips/Day	Trip Location (to/from)	Miles per One-Way Trip	Miles per Trip	Fuel Type	Fuel Efficiency (gal/hr)
Vehicle Use on Paved Roads --- and Not on Construction Site												
SF - Eastern - 1	Pickup 1/2T 2 WD	Materials from Stockton	207	3208.9	1.1	3008	14.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 1	Pickup, 3/4T, 4wd	Materials from Stockton	207	3200.0	1.1	3000	14.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 1	Truck Flatbed 4 T Highway	Materials from Stockton	207	799.7	1.1	750	3.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 1	Truck Flatbed 4 T Highway	Two Cranes and one lift from Stockton	1	3.2	1.1	3	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 2	Pickup 1/2T 2 WD	Materials from Stockton	323	16044.4	1.1	15042	46.6	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 2	Pickup, 3/4T, 4wd	Materials from Stockton	323	16000.0	1.1	15000	46.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 2	Truck Flatbed 4 T Highway	Materials from Stockton	323	4000.3	1.1	3750	11.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 3	Pickup 1/2T 2 WD	Materials from Stockton	253	2480.0	1.1	2325	9.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 3	Pickup, 3/4T, 4wd	Materials from Stockton	253	620.2	1.1	581	2.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 3	Truck End Dump/ 10-13cy Hwy	Materials from Stockton	253	378.7	1.1	355	1.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 3	Truck Flatbed 4 T Highway	Crane, Two Rollers, two Loaders, Tractor, Grader, and Excavator	1	8.5	1.1	8	8.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 4	Pickup 1/2T 2 WD	Materials from Stockton	227	1761.3	1.1	1651	7.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 4	Pickup, 3/4T, 4wd	Materials from Stockton	227	545.3	1.1	511	2.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 4	Truck End Dump/ 10-13cy Hwy	Materials from Stockton	227	407.3	1.1	382	1.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 4	Truck Flatbed 4 T Highway	Materials from Stockton	227	1434.2	1.1	1335	5.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 4	Truck, Flatbed, 10T, Hwy	Materials from Stockton	227	30.4	1.1	29	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 4	Truck Flatbed 4 T Highway	Materials from Stockton	227	1944.5	1.1	1823	8.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 4	Truck End Dump/ 16-20cy Hwy	Base Rock, Asphalt, and Gravel from Vernalis	227	20393.6	0.7	28848	127	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Central - 4	Truck & Bottom Dump/ 25cy 30T	Asphalt, Hot Mix Delivered from Vernalis	227	349	0.7	499	2.2	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel Tier 4	
SF - Central - 4	Truck Flatbed 4 T Highway	Asphalt Paver and 2 Rollers from and to Stockton	2	6.4	1.1	6	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 4	Truck Flatbed 4 T Highway	One Roller and one Crane from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 5	Pickup 1/2T 2 WD	Materials from Stockton	5	153.6	1.1	144	28.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 5	Pickup, 3/4T, 4wd	Materials from Stockton	5	100.0	1.1	94	18.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 5	Truck End Dump/ 10-13cy Hwy	Materials from Stockton	5	307.2	1.1	288	57.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 5	Truck Flatbed 4 T Highway	Materials from Stockton	5	1261.9	1.1	1183	236.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 5	Truck Flatbed 4 T Highway	Two Loaders and Tractor from Stockton	1	3.2	1.1	3	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 6	Mechanics Truck	Materials from Stockton	159	15187.2	1.1	14238	89	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 6	Pickup 1/2T 2 WD	Materials from Stockton	159	15946.5	1.1	14950	93.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 6	Truck Flatbed 4 T Highway	Materials from Stockton	159	15187.2	1.1	14238	89.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 6	Truck Flatbed 4 T Highway	One Loader from Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 6	Truck End Dump/ 16-20cy Hwy	Gravel and Base rock from Vernalis	159	929.6	0.7	1328	8	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Central - 6	Truck Flatbed 4 T Highway	Materials from Stockton	159	110.9	1.1	104	0.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 7	Pickup 1/2T 2 WD	Materials from Stockton	261	2892.7	1.1	2712	10.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 7	Truck End Dump/ 10-13cy Hwy	Materials from Stockton	261	576.0	1.1	540	2.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 7	Truck Flatbed 4 T Highway	Materials from Stockton	261	14976.0	1.1	14040	53.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 8	Truck Flatbed 4 T Highway	Materials from Stockton	1254	9984.0	1.1	9360	7.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 8	Truck Flatbed 10 T Highway	Materials from Stockton	1254	6877.6	1.1	6448	5.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 8	Truck Flatbed 4 T Highway	Two Cranes from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 9	Pickup 1/2T 2 WD	Materials from Stockton	212	1534.4	1.1	1439	6.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 9	Pickup, 3/4T, 4wd	Materials from Stockton	212	80.0	1.1	75	0.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 9	Truck End Dump/ 10-13cy Hwy	Materials from Stockton	212	128.0	1.1	120	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 9	Truck Flatbed 4 T Highway	Materials from Stockton	212	256.0	1.1	240	1.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 9	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	212	38.4	1.1	36	0.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 9	Truck Flatbed 4 T Highway	Loader and Crane from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 9	Truck Flatbed 4 T Highway	Materials from Stockton	212	1043.2	1.1	978	4.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 9	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	212	6.8	0.6	12	0.1	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel	
SF - Central - 9	Truck End Dump/ 16-20cy Hwy	Gravel and Base Rock from Vernalis	212	1857.8	0.7	2654	13	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Eastern - 10	Truck, Flatbed, 10T, Hwy	Materials from Stockton	81	78.0	1.1	73	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 10	Pickup, 3/4T, 4wd	Materials from Stockton	81	71.2	1.1	67	0.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 11	Mechanics Truck	Materials from Stockton	283	8220.4	1.1	7707	27	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 11	Pickup 1/2T 2 WD	Materials from Stockton	283	15116.4	1.1	14172	50.1	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 11	Pickup, 3/4T, 4wd	Materials from Stockton	283	200.4	1.1	188	0.7	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 11	Truck Flatbed 4 T Highway	Materials from Stockton	283	8220.4	1.1	7707	27.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 11	Truck Flatbed 4 T Highway	Materials from Stockton	283	146.1	1.1	137	0.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 11	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	283	46.5	0.6	82	0.3	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel	
SF - Eastern - 11	Truck End Dump/ 16-20cy Hwy	Flyash from Vernalis	283	26.9	0.7	38	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Eastern - 11	Truck End Dump/ 10-13cy Hwy	Cement, Aggregate, and Sand from Stockton	283	1230.5	1.1	1154	4.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 12	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	691	8846.8	1.1	8294	12.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 12	Pickup 1/2T 2 WD	Materials from Stockton	691	10754.3	1.1	10082	14.6	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 12	Truck Flatbed 4 T Highway	Crane, Two Excavators, and Tractor from Stockton	1	4.3	1.1	4	4.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 12	Truck Flatbed 4 T Highway	Materials from Stockton	691	1628.8	1.1	1527	2.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 12	Truck, Flatbed, 10T, Hwy	Rebar and Steel from Livermore	691	318.5	0.6	562	0.8	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel	
SF - Central - 12	Truck End Dump/ 16-20cy Hwy	Gravel and Base Rock from Vernalis	691	79.1	0.7	113	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel	
SF - Eastern - 13	Pickup 1/2T 2 WD	Materials from Stockton	834	5162.5	1.1	4840	5.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 13	Pickup, 3/4T, 4wd	Materials from Stockton	834	34.2	1.1	32	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 13	Truck Flatbed 4 T Highway	Materials from Stockton	834	2924.8	1.1	2742	3.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 13	Truck, Tractor, 75000K, 6 x 4	Materials from Stockton	834	1700.2	1.1	1594	1.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Eastern - 13	Truck Flatbed 4 T Highway	Crane from Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 13	Truck Flatbed 4 T Highway	Materials from Stockton	834	621.9	1.1	583	0.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	
SF - Central - 13	Truck, Flatbed, 10T, Hwy	Rebar and Steel from Livermore	834	170.6	0.6	301	0.4	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel	
SF - Eastern - 14	Pickup 1/2T 2 WD	Materials from Stockton	623	2395.3	1.1	2346	3.6	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline	
SF - Eastern - 14	Truck Flatbed 4 T Highway	Materials from Stockton	623	1562.7	1.1	1465	2.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel	

SF - Eastern - 15A	Truck, Tractor, 75000#, 6 x 4	Materials from Stockton	227	1497.6	1.1	1404	6.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 15B	Pickup 1/2T 2 WD	Materials from Stockton	352	1521.9	1.1	1427	4.1	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 15B	Pickup, 3/4T, 4wd	Materials from Stockton	352	380.5	1.1	357	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 15B	Truck Flatbed 4 T Highway	Materials from Stockton	352	591.7	1.1	555	1.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 15B	Truck Flatbed 4 T Highway	Loader from Stockton	352	1.1	1.1	1	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 15B	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	352	794.7	1.1	745	2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 15B	Truck' End Dump' 16-20cy' Hwy	Gravel and Base Rock from Vernalis	352	779.1	0.7	1113	3	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 15B	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	352	123.0	0.6	217	0.6	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern - 16	Pickup 1/2T 2 WD	Materials from Stockton	154	1100.8	1.1	1032	6.7	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 16	Pickup, 3/4T, 4wd	Materials from Stockton	154	72.3	1.1	68	0.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 16	Truck' End Dump' 10-13cy' Hwy	Cement, Aggregate, and Sand from Stockton	154	229.3	1.1	215	1.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 16	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	154	5.1	0.6	9	0.1	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern - 17	Pickup 1/2T 2 WD	Materials from Stockton	33	1232.0	1.1	1155	35.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 17	Pickup, 3/4T, 4wd	Materials from Stockton	33	10.9	1.1	10	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 17	Truck, Flatbed, 10T, Hwy	Rebar and Steel from Livermore	33	1.7	0.6	3	0.1	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 17	Truck' End Dump' 16-20cy' Hwy	Gravel and Base Rock from Vernalis	33	252.7	0.7	361	11	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 18	Pickup 1/2T 2 WD	Materials from Stockton	29	0.2	1.1	0	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 18	Pickup, 3/4T, 4wd	Materials from Stockton	29	24.2	1.1	23	0.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 18	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	29	1.1	0.6	2	0.1	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern - 19	Pickup 1/2T 2 WD	Materials from Stockton	336	3495.5	1.1	3277	9.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 19	Pickup, 3/4T, 4wd	Materials from Stockton	336	509.2	1.1	477	1.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 19	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	336	173.1	1.1	162	0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 19	Truck' End Dump' 10-13cy' Hwy	Materials from Stockton	336	187.5	1.1	176	0.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 19	Truck Flatbed 4 T Highway	Materials from Stockton	336	316.8	1.1	297	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 19	Truck' End Dump' 16-20cy' Hwy	Gravel and Base Rock from Vernalis	336	46.2	0.7	66	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 19	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	336	13.0	0.6	23	0.1	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern - 20	Truck Flatbed 10 T Highway	Materials from Stockton	715	1863.9	1.1	1747	2.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 20	Truck, Tractor, 75000#, 6 x 4	Materials from Stockton	715	710.4	1.1	666	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 20	Truck' End Dump' 16-20cy' Hwy	Flyash from Vernalis	715	30.5	0.7	44	0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 20	Truck' End Dump' 10-13cy' Hwy	Cement, Aggregate, and Sand from Stockton	715	1393.9	1.1	1307	1.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 21	Pickup, 3/4T, 4wd	Materials from Stockton	906	2100.0	1.1	1969	2.1	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 22	Pickup 1/2T 2 WD	Materials from Stockton	233	2112.0	1.1	1980	8.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 22	Truck Flatbed 4 T Highway	Materials from Stockton	233	2016.0	1.1	1890	8.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 22	Truck Flatbed 10 T Highway	Materials from Stockton	233	96.0	1.1	90	0.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 22	Truck, Tractor, 75000#, 6 x 4	Materials from Stockton	233	240.0	1.1	225	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 23	Pickup 1/2T 2 WD	Materials from Stockton	201	14561.4	1.1	13651	68.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 23	Pickup, 3/4T, 4wd	Materials from Stockton	201	208.8	1.1	196	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 23	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	201	12621.1	1.1	11832	59	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 23	Truck' End Dump' 10-13cy' Hwy	Materials from Stockton	201	302.4	1.1	284	1.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 23	Truck, Flatbed, 10T, Hwy	Materials from Stockton	201	39.6	1.1	37	0.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 23	Truck' End Dump' 16-20cy' Hwy	Base Rock from Vernalis	201	1579.2	0.7	2256	11	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 23	Truck Flatbed 4 T Highway	Cone, Grader, and Excavator to Stockton	1	3.2	1.1	3	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 24	Truck' End Dump' 10-13cy' Hwy	Materials from Stockton	181	1600.0	1.1	1500	8.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 24	Truck' End Dump' 10-13cy' Hwy	Base Rock from Vernalis	181	583.8	0.7	834	4.6	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Central - 24	Truck, Flatbed, 10T, Hwy	Materials from Stockton	181	60.8	1.1	57	0.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 25	Pickup 1/2T 2 WD	Materials from Stockton	445	21303.1	1.1	19972	44.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 25	Pickup, 3/4T, 4wd	Materials from Stockton	445	279.7	1.1	262	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 26	Pickup 1/2T 2 WD	Materials from Stockton	1355	28604.8	1.1	26817	19.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 26	Truck Flatbed 4 T Highway	Materials from Stockton	1355	20738.5	1.1	19442	14.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 26	Truck, Flatbed, 10T, Hwy	Materials from Stockton	1355	154.7	1.1	145	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 27	Pickup 1/2T 2 WD	Materials from Stockton	1749	8574.4	1.1	8039	4.6	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 27	Truck' End Dump' 16-20cy' Hwy	Base Rock from Vernalis	1749	650.3	0.7	929	1	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 28	Truck, Flatbed, 10T, Hwy	Materials from Stockton	2190	8301.9	1.1	7783	3.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 28	Truck, Flatbed, 4T, Hwy	Materials from Stockton	2190	13070.0	1.1	12253	5.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 29	Pickup 1/2T 2 WD	Materials from Stockton	274	3458.6	1.1	3242	11.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 29	Pickup, 3/4T, 4wd	Materials from Stockton	274	2093.1	1.1	1962	7.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 29	Truck, 400hp & End Dump Tr, 28cy, 36T	Materials from Stockton	274	3407.4	1.1	3194	11.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 29	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	274	8787.6	1.1	8238	30	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 29	Truck, Flatbed, 10T, Hwy	Materials from Stockton	274	4154.4	1.1	3895	14.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 29	Truck, Flatbed, 4T, Hwy	Materials from Stockton	274	167.0	1.1	157	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 29	Truck, Flatbed, 10T, Hwy	Materials from Stockton	274	2302.9	1.1	2159	7.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 29	Truck' End Dump' 10-13cy' Hwy	Base Rock, Cement, Aggregate, and Sand from Stockton	274	14392.5	1.1	13493	49.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 30	Mechanics Truck	Materials from Stockton	185	1306.7	1.1	1225	7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 30	Pickup 1/2T 2 WD	Materials from Stockton	185	1186.9	1.1	1113	6.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 30	Pickup, 3/4T, 4wd	Materials from Stockton	185	171.9	1.1	161	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 30	Truck, Flatbed, 10T, Hwy	Materials from Stockton	185	246.7	1.1	231	1.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 30	Truck Flatbed 4 T Highway	Materials from Stockton	185	1306.7	1.1	1225	6.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 30	Truck' End Dump' 10-13cy' Hwy	Gravel and Base Rock from Vernalis	185	996.3	1.1	934	5.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 30	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Livermore	185	29.5	0.6	52	0.3	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 30	Truck, Flatbed, 10T, Hwy	Materials from Stockton	185	236.3	0.6	417	2.3	Southern Complex on Byron Tract to/from Stockton	17	34	Diesel
SF - Eastern - 31	Truck, Tractor, 75000#, 6 x 4	Materials from Stockton	649	401.9	1.1	377	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 31	Pickup 1/2T 2 WD	Materials from Stockton	649	799.4	1.1	749	1.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 31	Pickup, 3/4T, 4wd	Materials from Stockton	649	33.3	1.1	31	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 31	Truck Flatbed 4 T Highway	Materials from Stockton	649	7904.1	1.1	7410	11.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 31	Truck, Flatbed, 10T, Hwy	Materials from Stockton	649	541.9	1.1	508	0.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 31	Truck, Flatbed, 10T, Hwy	Materials from Stockton	649	656.0	1.1	615	0.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel

SF - Central - 31	Truck' End Dump' 10-13cy' Hwy	Gravel and Base Rock from Vernalis	649	1111.5	1.1	1042	1.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 31	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	649	252.7	0.6	446	0.7	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Eastern - 32	Truck Flatbed 4 T Highway	Materials from Stockton	136	734.0	1.1	688	5.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 32	Truck, Tractor, 75000#, 6 x 4	Materials from Stockton	136	222.2	1.1	208	1.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 32	Truck Flatbed 4 T Highway	Materials from Stockton	136	227.2	1.1	213	1.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 32	Truck Flatbed 4 T Highway	Cane and Forklift from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 32	Truck Flatbed 4 T Highway	Cane to Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 33	Mechanics Truck	Materials from Stockton	256	5680.0	1.1	5325	21	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 33	Pickup 1/2T 2 WD	Materials from Stockton	256	5680.0	1.1	5325	20.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 33	Truck Flatbed 4 T Highway	Materials from Stockton	256	5680.0	1.1	5325	20.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 33	Truck Flatbed 4 T Highway	Materials from Stockton	256	24.5	1.1	23	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 34	Truck, Flatbed, 10T, Hwy	Materials from Stockton	771	16.0	1.1	15	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 34	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	771	3090.0	1.1	2897	3.8	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 34	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	771	522.3	1.1	499	0.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 34	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Livermore	771	444.3	0.6	784	1.0	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 34	Truck' End Dump' 16-20cy' Hwy	Gravel and Flyash from Vernalis	771	1638.0	0.7	2340	3.0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 34	Truck Flatbed 4 T Highway	Roller to Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 35	Truck & Bottom Dump, 21cy, 10T	Dumper	88	2179.5	1.1	2043	23.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 35	Truck Flatbed 4 T Highway	Cane to Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 36	Tunnel Utility Truck	Highway Truck	344	5103.9	1.1	4785	13.9	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 36	Truck, Flatbed, 10T, Hwy	Materials from Stockton	344	2590.0	1.1	2438	7.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 36	Truck Flatbed 4 T Highway	Materials from Stockton	344	28465.7	1.1	26687	77.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 36	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	344	90.7	1.1	85	0.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 37	Tunnel Utility Truck	Highway Truck	35	174	1.1	163	4.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 37	Truck Flatbed 4 T Highway	Dozer and Loader to Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 37	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	35	1236.3	1.1	1159	33.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 37	Truck & Bottom Dump' 21cy' 10T	Asphalt, Hot Mix Delivered from Vernalis	35	319	0.7	456	13.0	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel Tier 4
SF - Central - 37	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	35	5.7	0.6	10	0.3	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 37	Truck' End Dump' 16-20cy' Hwy	Base Rock and Gravel from Vernalis	35	2559.9	0.7	3657	104.5	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 38	Mechanics Truck	Materials from Stockton	961	2133.0	1.1	2000	2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 38	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	961	3090.0	1.1	2897	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 38	Pickup, 3/4T, 4wd	Materials from Stockton	961	2133.0	1.1	2000	2.1	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 38	Truck, Flatbed, 10T, Hwy	Materials from Stockton	961	16.0	1.1	15	0.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 38	Truck, Flatbed, 4T, Hwy	Materials from Stockton	961	2133.0	1.1	2000	2.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 38	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	961	57.2	0.6	101	0.1	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 38	Truck Flatbed 4 T Highway	Materials from Stockton	961	109.9	1.1	103	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 39	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	277	2185.5	1.1	2049	7.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 39	Truck Flatbed 4 T Highway	Excavator and Loader from Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 39	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	277	444.8	1.1	417	1.5	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 39	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Livermore	277	29.5	0.6	52	0.2	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 39	Truck' End Dump' 16-20cy' Hwy	Base Rock, Gravel, and Flyash from Vernalis	277	664.4	0.7	949	3.4	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 40	Tunnel Utility Truck	Highway Truck	417	10210.6	1.1	9572	23.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 40	Truck, Flatbed, 10T, Hwy	Materials from Stockton	417	2504.0	1.1	2348	5.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 41	Tunnel Utility Truck	Highway Truck	35	174	1.1	163	4.7	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 41	Pickup 1/2T 2 WD	Materials from Stockton	35	4531.4	1.1	4248	121.4	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 41	Pickup, 3/4T, 4wd	Materials from Stockton	35	242.0	1.1	227	6.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 41	Truck, Flatbed, 10T, Hwy	Rebar from Livermore	35	21.5	0.6	38	1.1	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 41	Truck' End Dump' 16-20cy' Hwy	Gravel and Flyash from Vernalis	35	456.8	0.7	653	18.6	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel
SF - Eastern - 41	Truck Flatbed 4 T Highway	Cane and Tractor to Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 42	Mechanics Truck	Materials from Stockton	1660	3547.0	1.1	3325	2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 42	Pickup 1/2T 2 WD	Materials from Stockton	1660	3547.0	1.1	3325	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 42	Truck, Flatbed, 10T, Hwy	Materials from Stockton	1660	400.0	1.1	375	0.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 42	Truck Flatbed 4 T Highway	Materials from Stockton	1660	3547.0	1.1	3325	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 42	Truck & Bottom Dump' 21cy' 10T	Materials from Stockton	1660	3852.4	1.1	3612	2	Bethune P#1 to/from Stockton	32	64	Diesel Tier 4
SF - Central - 42	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	1660	237.2	1.1	213	0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 42	Truck Flatbed 4 T Highway	Loader and three Cranes to Stockton	1	4.3	1.1	4	4.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 43	Truck, Flatbed, 10T, Hwy	Materials from Stockton	239	16.0	1.1	15	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 43	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	239	16.0	1.1	15	0.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 43	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Livermore	239	194.4	0.6	343	1.4	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 43	Truck Flatbed 4 T Highway	Two Excavators, two Loaders, Roller, Dozer, and Scraper to Stockton	1	7.5	1.1	7	7.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 43	Truck Flatbed 4 T Highway	Two Excavators, two Loaders, Roller, Dozer, and Scraper to Stockton	1	7.5	1.1	7	7.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 43	Truck Flatbed 4 T Highway	Excavator from and to Stockton	2	2.1	1.1	2	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 44	Truck, Flatbed, 10T, Hwy	Materials from Stockton	91	1518.0	1.1	1423	15.6	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 44	Truck Flatbed 4 T Highway	Cane to Stockton	1	1.1	1.1	1	1.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 45	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	165	3033.0	1.1	2843	17.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 45	Truck Flatbed 4 T Highway	Two Loaders, Grader, Dozer, Skid Loader, and Roller to Stockton	1	6.4	1.1	6	6.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 46	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	443	3445.0	1.1	3230	7.3	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 46	Truck, Flatbed, 10T, Hwy	Materials from Stockton	443	102.0	1.1	96	0.2	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 46	Truck, Flatbed, 10T, Hwy	Steel and Rebar from Livermore	443	146.2	0.6	258	0.6	Southern Complex on Byron Tract to/from Livermore	17	34	Diesel
SF - Central - 46	Truck' End Dump' 16-20cy' Hwy	Materials from Stockton	443	180.3	1.1	169	0.4	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 46	Truck Flatbed 4 T Highway	Two Cranes and a Forklift to Stockton	1	5.2	1.1	3	3.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel

SF - Eastern - 47	Truck Flatbed 4 T Highway	Excavator, Tractor, Grader, Scraper, Loader, and two Dozers to Stockton	1	7.5	1.1	7	7.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 48	Truck, Flatbed, 10T, Hwy	Materials from Stockton	1980	95188.8	1.1	89240	45.1	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 48	Truck, Flatbed, 10T, Hwy	Materials from Stockton	1980	80.0	1.1	292	0.1	Southern Complex on Byron Tract to/from Livermore	32	64	Diesel
SF - Eastern - 48	Truck Flatbed 4 T Highway	Lift, Two Rollers, Paver, Excavator, and Loader to Stockton	1	6.4	1.1	6	6.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 49	Tunnel Utility Truck	Highway Truck	70	746.7	1.1	700	10.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 49	Truck Flatbed 4 T Highway	Crane and Tractor to Stockton	1	2.1	1.1	2	2.0	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Eastern - 50	Pickup 1/2T 2 WD	Materials from Stockton	40	384.0	1.1	360	9.0	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 51	Pickup 1/2T 2 WD	Materials from Stockton	39	400.0	1.1	375	9.5	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 52	Pickup 1/2T 2 WD	Materials from Stockton	2593	17104.9	1.1	16036	6.2	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Central - 54	Truck & Bottom Dump' 21cy' 30T	Asphalt, Hot Mix Delivered from Vernalis	10	489	0.7	699	69.9	Southern Complex on Byron Tract to/from Vernalis	21	42	Diesel Tier 4
SF - Eastern - 55	Pickup 1/2T 2 WD	Materials from Stockton	239	200.0	1.1	188	0.8	Southern Complex on Byron Tract to/from Stockton	32	64	Hybrid Gasoline
SF - Eastern - 55	Truck, End Dump, 10-13cy, Hwy	Materials from Stockton	239	4000.0	1.1	3750	16	Southern Complex on Byron Tract to/from Stockton	32	64	Diesel
SF - Central - 55	Truck, Flatbed, 10T, Hwy	Materials from Stockton	239	113.3	0.6	200	0.8	Southern Complex on Byron Tract to/from Stockton	17	34	Diesel

Vehicle Use on Unpaved/Dirt Surface (no access roads at park and site) — on the Construction Site										Miles On-Site	
SF - Eastern - 3	CAT 770, Articulated End dump	Dumper	253	233.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1166	Diesel or Hybrid
SF - Eastern - 3	Articulated Rear Dump 22 CY/CAT 730	Dumper	253	2181.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		10907	Diesel or Hybrid
SF - Eastern - 3	Truck & Bottom Dump, 21cy, 30T	Dumper	253	2408.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		12045	Diesel
SF - Eastern - 4	CAT 770, Articulated End dump	Dumper	227	101.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		509	Diesel or Hybrid
SF - Eastern - 4	Articulated Rear Dump 22 CY/CAT 735	Dumper	227	1069.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		5347	Diesel or Hybrid
SF - Eastern - 5	Cat 770, 511HP	Dumper	5	100.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		500	Diesel or Hybrid
SF - Eastern - 5	Articulated Rear Dump 22 CY/CAT 735	Dumper	5	199.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1000	Diesel or Hybrid
SF - Eastern - 9	Articulated Rear Dump 22 CY/CAT 730	Dumper	212	160.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		800	Diesel or Hybrid
SF - Eastern - 9	Trailer, Lowboy, 50T	Off-Highway Truck	212	38.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		192	Diesel
SF - Eastern - 9	CAT735, 35T, Articulated End Dump	Dumper	212	72	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		360	Diesel or Hybrid
SF - Eastern - 9	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	212	1680.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		8400	Diesel
SF - Eastern - 10	CAT735, 35T, Articulated End Dump	Dumper	81	71	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		356	Diesel or Hybrid
SF - Eastern - 10	Cat 770, 511HP	Dumper	81	71.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		0	Diesel or Hybrid
SF - Eastern - 10	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	81	468.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2340	Diesel
SF - Eastern - 11	Articulated Rear Dump 22 CY/CAT 730	Dumper	283	3288.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		164408	Diesel or Hybrid
SF - Eastern - 11	CAT 770 Dump	Dumper	283	200	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1002	Diesel or Hybrid
SF - Eastern - 12	Trailer, Lowboy, 50T	Off-Highway Truck	691	8846.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		44234	Diesel
SF - Eastern - 12	CAT 740 40T, Articulated End dump	Dumper	691	2537.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		12686	Diesel or Hybrid
SF - Eastern - 12	Tremie Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	691	13692.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		68460	Diesel
SF - Eastern - 13	Trailer, Lowboy, 50T	Off-Highway Truck	834	1632.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		8161	Diesel
SF - Eastern - 13	CAT 770 Dump	Dumper	834	33	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		165	Diesel or Hybrid
SF - Eastern - 13	Articulated Rear Dump 22 CY/CAT 730	Dumper	834	7483.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		37419	Diesel or Hybrid
SF - Eastern - 13	CAT 740 40T, Articulated End dump	Dumper	834	235.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1178	Diesel or Hybrid
SF - Eastern - 13	Articulated Rear Dump 22 CY/CAT 735	Dumper	834	986.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		4930	Diesel or Hybrid
SF - Eastern - 13	CAT773, 53 7T, End Dump	Dumper	834	1532.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		7661	Diesel or Hybrid
SF - Eastern - 13	Tremie Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	834	2914.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		14572	Diesel
SF - Eastern - 14	CAT 740 40T, Articulated End dump	Dumper	623	2386.8	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		11934	Diesel or Hybrid
SF - Eastern - 14	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	623	3651.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		18256	Diesel
SF - Eastern - 15A	Trailer, Lowboy, 50T	Off-Highway Truck	227	5990.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		29952	Diesel
SF - Eastern - 15B	CAT 770 Dump	Dumper	352	381	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1903	Diesel or Hybrid
SF - Eastern - 15B	Articulated Rear Dump 22 CY/CAT 730	Dumper	352	591.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		2959	Diesel or Hybrid
SF - Eastern - 15B	Articulated Rear Dump 22 CY/CAT 735	Dumper	352	7114.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		35573	Diesel or Hybrid
SF - Eastern - 15B	Tremie Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	352	2198.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		10992	Diesel
SF - Eastern - 16	Articulated Rear Dump 22 CY/CAT 730	Dumper	154	144.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		723	Diesel or Hybrid
SF - Eastern - 16	Tremie Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	154	273.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1366	Diesel
SF - Eastern - 17	Articulated Rear Dump 22 CY/CAT 730	Dumper	33	22.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		114	Diesel or Hybrid
SF - Eastern - 18	Articulated Rear Dump 22 CY/CAT 730	Dumper	29	48.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		242	Diesel or Hybrid
SF - Eastern - 18	Concrete Pump Truck	Off-Highway Truck	29	20.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		100	Diesel
SF - Eastern - 19	CAT 770 Dump	Dumper	336	1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		3	Diesel or Hybrid
SF - Eastern - 19	Articulated Rear Dump 22 CY/CAT 730	Dumper	336	269.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1347	Diesel or Hybrid
SF - Eastern - 19	CAT 740 40T, Articulated End dump	Dumper	336	12.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		64	Diesel or Hybrid
SF - Eastern - 19	Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	336	732.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		3665	Diesel
SF - Eastern - 20	Tremie Concrete Transit Mix Truck' 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	715	1982.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		9910	Diesel
SF - Eastern - 22	Trailer, Lowboy, 50T	Off-Highway Truck	283	240.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		1200	Diesel
SF - Eastern - 23	Articulated Rear Dump 22 CY/CAT 730	Dumper	201	5595.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour		27977	Diesel or Hybrid

SF - Eastern - 23	Articulated Rear Dump 22 CV/CAT 735	Dumper	201	484.3	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2422	Diesel or Hybrid
SF - Eastern - 24	Tremie Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	181		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 25	Articulated Rear Dump 22 CV/CAT 735	Dumper	445	32253.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	163265	Diesel or Hybrid
SF - Eastern - 26	CAT 770 Dump	Dumper	1355	11203	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	56014	Diesel or Hybrid
SF - Eastern - 26	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	1355		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 27	CAT 769, 41.6T End Dump	Dumper	1749	34297.5	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
SF - Eastern - 28	Cat 770, S11HP	Dumper	2190		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
SF - Eastern - 28	Cat 745 45T, Articulated End Dump	Dumper	2190		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel or Hybrid
SF - Eastern - 29	CAT735, 35T, Articulated End Dump	Dumper	274	8194	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	40972	Diesel or Hybrid
SF - Eastern - 29	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	274		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 30	Cat 770, S11HP	Dumper	185	134.7	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	674	Diesel or Hybrid
SF - Eastern - 30	Articulated Rear Dump 22 CV/CAT 730	Dumper	185	3081.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	15406	Diesel or Hybrid
SF - Eastern - 30	CAT735, 35T, Articulated End Dump	Dumper	185	287	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1435	Diesel or Hybrid
SF - Eastern - 30	Trailer, Lowboy, 50T	Off-Highway Truck	185	550.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2750	Diesel
SF - Eastern - 30	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	185		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 31	Trailer, Lowboy, 50T	Off-Highway Truck	649	401.9	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2010	Diesel
SF - Eastern - 31	Articulated Rear Dump 22 CV/CAT 730	Dumper	649	11991.1	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	69956	Diesel or Hybrid
SF - Eastern - 31	Cat 770, S11HP	Dumper	649	205.4	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1027	Diesel or Hybrid
SF - Eastern - 31	CAT 740 40T, Articulated End dump	Dumper	649	650.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3050	Diesel or Hybrid
SF - Eastern - 31	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	649		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 32	Trailer, Lowboy, 50T	Off-Highway Truck	136	222.2	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1111	Diesel
SF - Eastern - 32	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	136		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 34	CAT 740 40T, Articulated End dump	Dumper	771	639.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3195	Diesel or Hybrid
SF - Eastern - 34	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	771		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 35	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	88		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 37	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	35		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 37	Trailer, Lowboy, 50T	Off-Highway Truck	35		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 38	Articulated Rear Dump 22 CV/CAT 730	Dumper	961	639.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	3195	Diesel or Hybrid
SF - Eastern - 38	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	961	1278.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	6390	Diesel
SF - Eastern - 39	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	277		not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	0	Diesel
SF - Eastern - 43	Articulated Rear Dump 22 CV/CAT 730	Dumper	239	562.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2810	Diesel or Hybrid
SF - Eastern - 43	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	239	1628.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	8140	Diesel
SF - Eastern - 45	Articulated Rear Dump 22 CV/CAT 730	Dumper	165	1334.6	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	6673	Diesel or Hybrid
SF - Eastern - 46	Articulated Rear Dump 22 CV/CAT 730	Dumper	443	562.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	2810	Diesel or Hybrid
SF - Eastern - 46	Concrete Transit Mix Truck 12cy	Concrete from Southern Complex Batch Plant on Byron Tract	443	1364.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	6820	Diesel
SF - Eastern - 55	CAT 740 40T, Articulated End dump	Dumper	239	200.0	not applicable	not applicable	not applicable	on-site: assume 5 miles/hour	1000	Diesel or Hybrid

**Employees Required to Southern Complex on Byron Tract - Eastern
Option 8**

Code	Employee Type	Hours	# Work Hours/Day		Trip Location (to/from)	Commute Miles/ One-way Trip/Day
SF - Eastern - 1	Carpenter Apprentice	8.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 1	Carpenter Foreman	8.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 1	Carpenter Journeyman	17.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 1	Electrical Foreman	4.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 1	Electrical Journeyman	17.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 1	Iron Worker Journeyman	17.8				32
SF - Eastern - 1	Rebar/Struct		10		Stockton to/from Southern Complex on Byron Tract	
SF - Eastern - 1	Laborer G2 General	3217.8	10		Stockton to/from Southern Complex on Byron Tract	32
						32
SF - Eastern - 1	Operator G3a Cranes 45 t and under	328.8	10		Stockton to/from Southern Complex on Byron Tract	
SF - Eastern - 1	Teamster G1 Hwy ED<6cy, Flatbed	799.7	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 1	Teamster G3 Boom Truck	4.4	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-1						
SF - Eastern - 2	Carpenter Apprentice	44.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Carpenter Foreman	44.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Carpenter Journeyman	88.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Electrical Foreman	22.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Electrician Journeyman	88.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Iron Worker Journeyman Rebar/Stru	88.89	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Laborer G2 General	16088.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Operator G3a Cranes 45 t and under	1644.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Teamster G1 Hwy ED<6cy, Flatbed	4000.28	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 2	Teamster G3 Boom Truck	22.22	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-2						
SF - Eastern - 3	Laborer G1 Pipe layers	757.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Laborer G1 Power Tamper	378.7	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Laborer G2 General	4903.5	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Laborer G3 Flagman	1240.4	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Operator G3 Loader >4cy	328.5	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Operator G2a Cranes 45 to 100 t	2423.76	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	OPERATING ENGINEER FOREMAN	2480	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Operator G2 Excavator 3.5 to 7.0	363.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Operator G2 Finish Blade	853.3	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Operator G3 BH-Loader>3/4cy	2613.1	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Operator G4 Dozer & Push Cat	1799.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Operator G4 Grade Check	1211.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Operator G5 Compactor w-blade	1086.3	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Teamster G2 Hwy ED 6-8cy, Water	1604.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 3	Teamster G3 ED 8-24cy, Water>7	4895.3	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-3						
			150			
SF - Eastern - 4	Laborer Foreman	30.44	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Laborer G1 Pipe layers	401.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Laborer G3 Bridge labor	5696.96	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Laborer G1 Power Tamper	140	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Laborer G2 General	1412.5	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Laborer G3 Flagman	1090.5	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	OPERATING ENGINEER FOREMAN	2653.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G2 Finish Blade	646.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G1a Cranes>100 t	1424.24	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G2 Excavator 3.5 to 7.0 cy	267.34	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G2a Cranes 45 to 100 t	1424.24	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G3 BH-Loader>3/4cy	407.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G4 Dozer & Push Cat	470.7	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G4 Grade Check	857.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G4 Loader <4.1cy	70	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G4a Boom truck<15 ton	35.14	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G5 Asphalt Roller	623.78	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G5 Compactor w-blade	203.35	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G5 Paver	311.89	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G7 Roller, Compactor	545.26	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Operator G8 Generator	109.05	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Pile Driver Wharf and Dock	5696.96	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Teamster G1 Hwy ED<6cy, Flatbed	1469.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Teamster G2 Hwy ED 6-8cy, Water<7	1123.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Teamster G3 Boom Truck	35.14	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 4	Teamster G3 ED 8-24cy, Water>7mg;	1069.4	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-4						
SF - Eastern - 5	Laborer G2 General	307.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Laborer G3 Flagman	307.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	OPERATING ENGINEER FOREMAN	253.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Operator G2 Finish Blade	199.9	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Operator G3 Loader >4cy	100	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Operator G4 Dozer & Push Cat	307.2	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Operator G4 Grade Check	104.1	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Operator G4 Loader <4.1cy	253.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Operator G4 Trim Machine	76.8	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Operator G5 Compactor w-blade	100	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Teamster G2 Hwy ED 6-8cy, Water<7	153.6	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Teamster G3 ED 8-24cy, Water>7mg;	507.1	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 5	Teamster G4 Water Tanker, Off Hwy	100	10		Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-5						
SF - Eastern - 6	Carpenter Apprentice	759.3	10		Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Carpenter Foreman	759.3	10		Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 6	Carpenter Journeyman	1518.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Electrical Foreman	189.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Electrician Journeyman	759.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Iron Worker Journeyman Rebar/Stru	1518.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Laborer G2 General	47080.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	OPERATING ENGINEER FOREMAN	15187.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Operator G2 Plant Operator	30374.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Operator G3 BH-Loader>3/4cy	15187.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Operator G3a Cranes 45 t and under	15187.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Operator G4 Grade Check	15187.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Operator G4 Hvy Duty Mechanic	15187.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Operator G4a Boom truck<15 ton	759.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Teamster G1 Hwy ED<6cy, Flatbed	1518.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Teamster G2 Hwy ED 6-8cy, Water<7	1518.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 6	Teamster G3 Boom Truck	379.7	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-6					
SF - Eastern - 7	Carpenter Apprentice	2815.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Carpenter Foreman	2815.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Carpenter Journeyman	5496.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Electrical Foreman	1078.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Electrician Journeyman	3525.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Iron Worker Journeyman Rebar/Stru	5631.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Laborer Foreman	8256	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Laborer G1 Pipe layers	1536	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Laborer G2 General	38732.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	OPERATING ENGINEER FOREMAN	76.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G2 Finish Blade	76.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G2a Cranes 45 to 100 t	1577.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G4 BH-Loader <.76cy	1536	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G4 Dozer & Push Cat	76.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G4 Grade Check	76.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G4 Loader <4.1cy	7488	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G4 Scraper	153.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G4a Boom truck<15 ton	1441	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G6 Tractor	3744	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Operator G7 Roller, Compactor	76.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Teamster G2 Hwy ED 6-8cy, Water<7	844.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Teamster G3 Boom Truck	1407.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 7	Teamster G1 Hwy ED<6cy, Flatbed	14976	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-7					
SF - Eastern - 8	Carpenter Journeyman	12735	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Electrician Journeyman	12735	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Laborer Foreman	6877.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Laborer G4 Clean-up	13755.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Operator G1a Cranes>100 t	39936	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Operator G2 Finish Blade	1375.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Operator G3 BH-Loader>3/4cy	6877.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Operator G4 Hvy Duty Mechanic	9984	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Operator G5 Compactor w-blade	1375.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Operator G5 Concrete Pump	4992	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Operator G7 Oiler	29952	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 8	Teamster G1 Hwy ED<6cy, Flatbed	16861.6	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-8					
SF - Eastern - 9	Carpenter Apprentice	960	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Carpenter Foreman	1225.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Carpenter Journeyman	3796	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Cement Mason Foreman	115.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Cement Mason Journeyman	603.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Electrical Foreman	960	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Electrician Journeyman	4864	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Iron Worker Foreman	345.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Iron Worker Journeyman Rebar/Stru	8179.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Laborer Foreman	665.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Laborer G1 Pipe layers	1024	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Laborer G1 Vibrator, Green Cutter	192	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Laborer G2 Concrete Laborer	288	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Laborer G2 General	4630	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Laborer G2 High Pressure Nozzle/lema	57.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	OPERATING ENGINEER FOREMAN	104	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G1a Cranes>100 t	38.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G2 Excavator 3.5 to 7.0 cy	24	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G2 Finish Blade	6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G2a Cranes 45 to 100 t	182.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G3 BH-Loader>3/4cy	512	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G3 Loader >4cy	630.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G3a Cranes 45 t and under	960	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G4 Dozer & Push Cat	104	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G4 Grade Check	104	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G4 Hvy Duty Mechanic	72	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G4a Boom truck<15 ton	960	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G5 Compactor w-blade	80	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Operator G7 Oiler	38.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Pile Driver Foreman	38.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Pile Driver Journeyman	192	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Teamster G1 Hwy ED<6cy, Flatbed	256	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Teamster G2 Hwy ED 6-8cy, Water<7	302	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Teamster G3 Boom Truck	960	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Teamster G3 ED 8-24cy, Water>7mg;	1680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Teamster G4 ED 25-65 Cy	232	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 9	Teamster G4 Tractor, Lowbed/Trailer	38.4	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-9			370		
SF - Eastern - 10	Carpenter Foreman	308	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Compactor Journeyman	2020.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Cement Mason Foreman	384.8	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 10	Cement Mason Journeyman	2434.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Iron Worker Foreman	298.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Iron Worker Journeyman Rebar/Stru	2086.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Laborer Foreman	110.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Laborer G1 Vibrator, Green Cutter	220.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Laborer G2 Concrete Laborer	331.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Laborer G2 General	2104	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	OPERATING ENGINEER FOREMAN	71.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Operator G2 Finish Blade	71.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Operator G2a Cranes 45 to 100 t	312	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Operator G3 Loader >4cy	71.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Operator G4 Hvy Duty Mechanic	78	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Operator G5 Compactor w-blade	71.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Teamster G1 Hwy ED<6cy, Flatbed	78	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 10	Teamster G3 ED 8-24cy, Water>7mgi	610.4	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-10					
SF - Eastern - 11	Carpenter Apprentice	890	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Carpenter Foreman	890	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Carpenter Journeyman	1780	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Electrical Foreman	222.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Electrician Journeyman	890	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Iron Worker Foreman	8222.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Iron Worker Journeyman Rebar/Stru	13909.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Laborer Foreman	8221.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Laborer G2 Concrete Laborer	49328.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Laborer G2 General	71582.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	OPERATING ENGINEER FOREMAN	15454.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G1a Cranes>100 t	23476.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G2 Finish Blade	400.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G2 Micro Tunnel	16441.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G2a Cranes 45 to 100 t	16441.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G3 BH-Loader>3/4cy	8220.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G3 Loader >4cy	8420.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G4 Dozer & Push Cat	8220.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G4 Grade Check	8420.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G4 Hvy Duty Mechanic	8220.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G4 Loader <4.1cy	200.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G4a Boom truck<15 ton	890	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G5 Compactor w-blade	200.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G5 Drilling & Boring Mach	192	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Operator G7 Oiler	40110.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Teamster G1 Hwy ED<6cy, Flatbed	8220.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Teamster G3 Boom Truck	445	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Teamster G3 ED 8-24cy, Water>7mgi	33282.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 11	Teamster G4 Water Tanker, Off Hwy	200.4	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-11					
SF - Eastern - 12	Carpenter Foreman	3423	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Carpenter Journeyman	22719	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Cement Mason Foreman	913.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Cement Mason Journeyman	3567.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Iron Worker Foreman	16534	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Iron Worker Journeyman Rebar/Stru	112596	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Laborer Foreman	8221.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Laborer G1 Vibrator, Green Cutter	2126.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Laborer G2 Concrete Laborer	12803.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Laborer G2 General	46837.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Laborer G2 High Pressure Nozzleamar	4488	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	OPERATING ENGINEER FOREMAN	4004	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G1a Cranes>100 t	16252.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G2 Excavator 3.5 to 7.0 cy	3249.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G2 Finish Blade	130.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G2 Plant Operator	153.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G2a Cranes 45 to 100 t	7235.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G3 Loader >4cy	260.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G3a Cranes 45 t and under	361.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G4 Dozer & Push Cat	1385.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G4 Hvy Duty Mechanic	7983	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G5 Compactor w-blade	260.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G6 Screedman	206.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G6 Tractor	260.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G7 Oiler	16252.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Operator G8a Skidsteer <Bobcat 743	266.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Teamster G2 Hwy ED 6-8cy, Water<7	331.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Teamster G3 ED 8-24cy, Water>7mgi	13692	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Teamster G4 ED 25-65 Cy	9284.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 12	Teamster G4 Tractor, Lowbed/Trailer	8846.8	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-12					
SF - Eastern - 13	Carpenter Apprentice	213.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Carpenter Foreman	6144.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Carpenter Journeyman	29585.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Cement Mason Foreman	700.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Cement Mason Journeyman	2760.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Electrical Foreman	1434.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Electrical Lineman	1382.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Electrician Journeyman	208.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Iron Worker Foreman	6985.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Iron Worker Journeyman Rebar/Stru	50614.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Iron Worker-Rigger	488.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Laborer Foreman	5178.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Laborer G1 Vibrator, Green Cutter	1942.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Laborer G2 Concrete Laborer	17061.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Laborer G2 General	46369.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Laborer G2 High Pressure Nozzleamar	761.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Laborer G3 Flagman	460.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Millwright	5529.6	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 13	OPERATING ENGINEER FOREMAN	4682.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G1a Cranes>100 t	117971.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G2 Excavator 3.5 to 7.0 cy	289	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G2 Finish Blade	152.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G2 Micro Tunnel	3743.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G2a Cranes 45 to 100 t	7995.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G3 BH-Loader>3/4cy	1870.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G3 Loader >4cy	1962.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G4 Dozer & Push Cat	2413.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G4 Grade Check	2018.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G4 Hvy Duty Mechanic	2262.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G4 Loader <4.1cy	32.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G4a Boom truck<15 ton	208.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G5 Compactor w-blade	91.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G6 Screedman	164.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G6 Tractor	58.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G7 Oiler	17405.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Operator G8a Skidsteer <Bobcat 743	87	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Pipefitter Foreman	1382.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Pipefitter Journeyman	1382.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Teamster G1 Hwy ED<6cy, Flatbed	2807.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Teamster G2 Hwy ED 6-8cy, Water<7	159.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Teamster G3 Boom Truck	104.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Teamster G3 ED 8-24cy, Water>7mg	10463.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Teamster G4 ED 25-65 Cy	2679	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Teamster G4 Tractor, Lowbed/Trailer	1632.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 13	Teamster G4 Water Tanker, Off Hwy	32.9	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-13					
SF - Eastern - 14	Carpenter Apprentice	19.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Carpenter Foreman	9183.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Carpenter Journeyman	52660.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Cement Mason Foreman	2253	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Cement Mason Journeyman	11398.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Electrical Foreman	96	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Electrical Lineman	96	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Iron Worker Foreman	7436.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Iron Worker Journeyman Rebar/Stru	48201.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Iron Worker Rigger	191.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Laborer Foreman	3056.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Laborer G1 Vibrator, Green Cutter	1722.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Laborer G2 Concrete Laborer	6465.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Laborer G2 General	37852.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Laborer G2 High Pressure Nozzlemar	817	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Millwright	768	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	OPERATING ENGINEER FOREMAN	921.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G1a Cranes>100 t	7381.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G2 Excavator 3.5 to 7.0 cy	1354.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G2 Finish Blade	244.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G2a Cranes 45 to 100 t	3569.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G3 Loader >4cy	488.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G4 Dozer & Push Cat	488.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G4 Hvy Duty Mechanic	757.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G4 Loader <4.1cy		10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G5 Compactor w-blade	488.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G6 Screedman	332.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G6 Tractor	488.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G7 Oiler	7764.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Operator G8a Skidsteer <Bobcat 743	1378	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Pile Driver Foreman	156.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Pile Driver Journeyman	938.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Pipefitter Foreman	96	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Pipefitter Journeyman	96	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Teamster G1 Hwy ED<6cy, Flatbed	196.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Teamster G2 Hwy ED 6-8cy, Water<7	1500.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Teamster G3 ED 8-24cy, Water>7mg	3651.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 14	Teamster G4 ED 25-65 Cy	2386.8	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-14					
SF - Eastern - 15A	Operator G1a Cranes>100 t	2995.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15A	Operator G3 BH-Loader>3/4cy	2995.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15A	Operator G7 Oiler	2995.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15A	Pipefitter Apprentice	11980	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15A	Pipefitter Foreman	2995.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15A	Pipefitter Journeyman	17971.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15A	Teamster G4 Tractor, Lowbed/Trailer	1497.6	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-15					
SF - Eastern - 15B	Carpenter Apprentice	76.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Carpenter Foreman	2698	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Carpenter Journeyman	16039.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Cement Mason Foreman	561.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Cement Mason Journeyman	2574.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Electrical Foreman	19.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Electrician Journeyman	76.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Iron Worker Foreman	6292.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Iron Worker Journeyman Rebar/Stru	44531.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Laborer Foreman	2083.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Laborer G1 Vibrator, Green Cutter	1120	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Laborer G2 Concrete Laborer	4396.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Laborer G2 General	14507	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Laborer G2 High Pressure Nozzlemar	2201.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	OPERATING ENGINEER FOREMAN	2166.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G1a Cranes>100 t	2912.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G2 Excavator 3.5 to 7.0 cy	1194.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G2 Finish Blade	1059.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G2 Micro Tunnel	172.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G2 Plant Operator	591.7	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 15B	Operator G2a Cranes 45 to 100 t	1626	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G3 BH-Loader>3/4cy	592.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G3 Loader >4cy	972.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G3a Cranes 45 t and under	591.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G4 Dozer & Push Cat	2980.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G4 Grade Check	1575.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G4 Hvy Duty Mechanic	215.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G4a Boom truck<15 ton	38.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G5 Compactor w-blade	380.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G6 Screedman	80.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G7 Oiler	3677.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Operator G8a Skidsteer <Bobcat 743	250.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Teamster G1 Hwy ED<6cy, Flatbed	591.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Teamster G2 Hwy ED 6-8cy, Water<7	1140.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Teamster G3 Boom Truck	38.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Teamster G3 ED 8-24cy, Water>7mg;	2198.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Teamster G4 ED 25-65 Cy	7706.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 15B	Teamster G4 Water Tanker, Off Hwy	380.5	10		
TOTAL SF - Eastern-15					
SF - Eastern - 16	Carpenter Apprentice	1100.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Carpenter Foreman	1207.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Carpenter Journeyman	3040.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Cement Mason Foreman	136	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Cement Mason Journeyman	772.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Electrical Foreman	1100.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Electrician Journeyman	2201.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Iron Worker Foreman	247.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Iron Worker Journeyman Rebar/Stru	3935.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Laborer Foreman	106.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Laborer G1 Vibrator, Green Cutter	182.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Laborer G2 Concrete Laborer	546.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Laborer G2 General	3695.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Laborer G2 High Pressure Nozzleman	15.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	OPERATING ENGINEER FOREMAN	72.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G1a Cranes>100 t	289.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G2a Cranes 45 to 100 t	289.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G3 Loader >4cy	72.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G3a Cranes 45 t and under	1100.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G4 Dozer & Push Cat	72.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G4 Grade Check	72.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G4 Hvy Duty Mechanic	72.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G4a Boom truck<15 ton	1100.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G5 Compactor w-blade	72.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G6 Screedman	91.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Operator G7 Oiler	289.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Teamster G2 Hwy ED 6-8cy, Water<7	36.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Teamster G3 Boom Truck	1100.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Teamster G3 ED 8-24cy, Water>7mg;	273.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 16	Teamster G4 ED 25-65 Cy	144.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-16					
SF - Eastern - 17	Carpenter Apprentice	1232	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Carpenter Foreman	1267.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Carpenter Journeyman	2714.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Cement Mason Foreman	30.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Cement Mason Journeyman	189	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Electrical Foreman	1232	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Electrician Journeyman	2464	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Iron Worker Foreman	85	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Iron Worker Journeyman Rebar/Stru	3058.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Laborer Foreman	34.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Laborer G1 Vibrator, Green Cutter	49	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Laborer G2 Concrete Laborer	73.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Laborer G2 General	2848.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Laborer G2 High Pressure Nozzleman	9.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	OPERATING ENGINEER FOREMAN	10.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G1a Cranes>100 t	77.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G2a Cranes 45 to 100 t	77.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G3 Loader >4cy	10.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G3a Cranes 45 t and under	1232.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G4 Dozer & Push Cat	10.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G4 Grade Check	10.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G4 Hvy Duty Mechanic	19.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G4a Boom truck<15 ton	1232.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G5 Compactor w-blade	10.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G6 Screedman	24.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Operator G7 Oiler	77.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Teamster G2 Hwy ED 6-8cy, Water<7	5.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Teamster G3 Boom Truck	1232.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Teamster G3 ED 8-24cy, Water>7mg;	36.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 17	Teamster G4 ED 25-65 Cy	21.8	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-17					
SF - Eastern - 18	Carpenter Foreman	32.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Carpenter Journeyman	225.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Cement Mason Foreman	19.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Cement Mason Journeyman	113.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Electrical Foreman	0.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Electrician Journeyman	0.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Iron Worker Foreman	46.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Iron Worker Journeyman Rebar/Stru	322.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Laborer Foreman	18.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Laborer G1 Vibrator, Green Cutter	26.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Laborer G2 Concrete Laborer	40	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Laborer G2 General	236.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Laborer G2 High Pressure Nozzleman	5.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Millwright	0.4	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 18	OPERATING ENGINEER FOREMAN	24.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G1a Cranes>100 t	42.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G2a Cranes 45 to 100 t	42.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G3 Loader >4cy	24.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G3a Cranes 45 t and under		10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G4 Dozer & Push Cat	24.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G4 Grade Check	24.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G4 Hvy Duty Mechanic	10.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G4a Boom truck<15 ton	0.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G5 Compactor w-blade	24.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Operator G7 Oiler	42.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Teamster G2 Hwy ED 6-8cy, Water<7	12.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Teamster G3 Boom Truck	0.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Teamster G3 ED 8-24cy, Water>7mg;	20.0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 18	Teamster G4 ED 25-65 Cy	48.4	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-18					

SF - Eastern - 19	Carpenter Apprentice	22198.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Carpenter Foreman	2438.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Carpenter Journeyman	6058.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Cement Mason Foreman	282.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Cement Mason Journeyman	1948.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Electrical Foreman	2343.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Electrician Lineman	145.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Electrician Journeyman	4396.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Iron Worker Foreman	665.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Iron Worker Journeyman Rebar/Stru	9053.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Laborer Foreman	2017.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Laborer G1 Pipe Layers	1499.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Laborer G1 Vibrator, Green Cutter	488.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Laborer G2 Concrete Laborer	2214.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Laborer G2 General	15146.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Laborer G2 High Pressure Nozzle	57.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Laborer G3 Flagman	57.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	OPERATING ENGINEER FOREMAN	230.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G1a Cranes>100 t	387.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G2 Excavator 3.5 to 7.0 cy	2.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G2 Finish Blade	60.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G3a Cranes 45 t and under	775.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G3 BH-Loader>3/4cy	1330.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G3 Loader >4cy	884.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G3a Cranes 45 t and under	2198.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G4 Dozer & Push Cat	139.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G4 Grade Check	173	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G4 Hvy Duty Mechanic	193.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G4 Loader <4.1cy	57.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G4a Boom truck<15 ton	2198.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G5 Asphalt Roller	71.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G5 Compactor w-blade	194.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G5 Curb & Gutter Conc Fini	249.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G5 Paver	35.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G6 Screedman	244.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G6 Tractor	0.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G7 Oiler	775.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G8 Pump	12	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Operator G8a Skidsteer <Bobcat 743	1115.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Teamster G1 Hwy ED<6cy, Flatbed	1276.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Teamster G2 Hwy ED 6-8cy, Water<7	976.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Teamster G3 Boom Truck	906	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Teamster G3 ED 8-24cy, Water>7mg;	282	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 19	Teamster G4 ED 25-65 Cy	115.4	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-19					

SF - Eastern - 20	Carpenter Apprentice	4586.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Carpenter Foreman	12137	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Carpenter Journeyman	57197.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Cement Mason Foreman	1649.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Cement Mason Journeyman	6263.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Electrical Foreman	5306.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Electrician Journeyman	15200.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Iron Worker Foreman	6207.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Iron Worker Journeyman Rebar/Stru	46985.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Laborer Foreman	2106.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Laborer G1 Vibrator, Green Cutter	1321.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Laborer G2 Concrete Laborer	3963.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Laborer G2 General	39573.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Laborer G2 High Pressure Nozzle	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Operator G1a Cranes>100 t	6429	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Operator G3a Cranes 45 t and under	6991.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Operator G4 Hvy Duty Mechanic	530.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Operator G4a Boom truck<15 ton	4160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Operator G6 Screedman	294.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Operator G7 Oiler	7139.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Operator G8a Skidsteer <Bobcat 743	85.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Pipefitter Apprentice	474.24	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Pipefitter Foreman	717.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Pipefitter Journeyman	4302.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Teamster G1 Hwy ED<6cy, Flatbed	1863.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Teamster G2 Hwy ED 6-8cy, Water<7	1982	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Teamster G3 Boom Truck	4160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Teamster G3 ED 8-24cy, Water>7mg;	1982	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 20	Teamster G4 Tractor, Lowbed/Trailer	710.4	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-20					

SF - Eastern - 21	Carpenter Foreman	3200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 21	Carpenter Journeyman	6400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 21	Laborer G2 General	3200	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-21					

SF - Eastern - 22	Carpenter Foreman	2016	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Electrical Lineman	3840	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Electrical Foreman	1056	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Electrician Journeyman	384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Iron Worker Rigger	384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Laborer G2 General	192	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Millwright	11904	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Operator G1a Cranes>100 t	384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Operator G3a Cranes 45 t and under	1352.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Operator G7 Oiler	384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Pipefitter Foreman	1432.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Pipefitter Journeyman	4298.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Teamster G1 Hwy ED<6cy, Flatbed	1432.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 22	Teamster G4 Tractor, Lowbed/Trailer	4298.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-22					
SF - Eastern - 23	Carpenter Apprentice	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Carpenter Foreman	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Carpenter Journeyman	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Electrical Foreman	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Electrician Journeyman	120.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Iron Worker Rigger	50	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Iron Worker Journeyman Rebar/Stru	241	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Laborer Foreman	39.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Laborer G1 Pipe Layer	2577	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Laborer G2 General	5318.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Laborer G3 Flagman	337.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	OPERATING ENGINEER FOREMAN	14800.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G2 Excavator 3.5 to 7.0 cy	1220.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G2 Finish Blade	25208.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G2a Cranes 45 to 100 t	120.48	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G3 BH-Loader>3/4cy	7538.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G3 Loader >4cy	1499.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G3a Cranes 45 t and under	120.48	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G4 BH-Loader <.76cy	50	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G4 Dozer & Push Cat	2052.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G4 Grade Check	208.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G4 Scraper	80	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G4a Boom truck<15 ton	110.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G5 Compactor w-blade	920.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Operator G8 Pump	33.77	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Teamster G1 Hwy ED<6cy, Flatbed	59.32	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Teamster G2 Hwy ED 6-8cy, Water<7	26438	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Teamster G3 Boom Truck	170.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 23	Teamster G3 ED 8-24cy, Water>7mg;	19086.2	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-23					
SF - Eastern - 24	Laborer G2 General	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 24	Laborer G3 Flagman	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 24	OPERATING ENGINEER FOREMAN	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 24	Operator G2 Finish Blade	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 24	Operator G4 Dozer & Push Cat	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 24	Operator G4 Loader <4.1cy	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 24	Teamster G2 Hwy ED 6-8cy, Water<7	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 24	Teamster G3 ED 8-24cy, Water>7mg;	1600	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-24					
SF - Eastern - 25	Electrical Lineman	1560	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Laborer Foreman	3900	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Laborer G1 Pipe layers	7800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Laborer G3 Flagman	41522.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Laborer G4 Clean-up	559.44	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	OPERATING ENGINEER FOREMAN	21582.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Operator G2 Excavator 3.5 to 7.0 cy	21214.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Operator G2 Finish Blade	5190.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Operator G4 Dozer & Push Cat	22404.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Operator G4 Grade Check	10380.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Operator G8 Generator	7800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Teamster G2 Hwy ED 6-8cy, Water<7	5190.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Teamster G3 Boom Truck	3900	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 25	Teamster G3 ED 8-24cy, Water>7mg;	83604.9	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-25					
SF - Eastern - 26	Laborer G2 General	64408.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	OPERATING ENGINEER FOREMAN	49343.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G2 Excavator 3.5 to 7.0 cy	10332	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G2 Finish Blade	11202.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G2 Plant Operator	41476.92	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G3 BH-Loader>3/4cy	20738.46	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G3a Cranes 45 t and under	20738.46	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G4 Dozer & Push Cat	48073.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G4 Grade Check	31070.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G4 Scraper	73091.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G5 Compactor w-blade	18272.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G6 Tractor	2066.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G7 Roller, Compactor	28604.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Operator G8 Pump	2066.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Teamster G1 Hwy ED<6cy, Flatbed	20738.46	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Teamster G2 Hwy ED 6-8cy, Water<7	20738.46	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 26	Teamster G3 ED 8-24cy, Water>7mg;	11202.8	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-26					
SF - Eastern - 27	Laborer G2 General	119.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 27	OPERATING ENGINEER FOREMAN	13583.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 27	Operator G5 Compactor w-blade	119.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 27	Operator G4 Dozer & Push Cat	32095.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 27	Operator G4 Scraper	19915.5	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 27	Operator G2 Excavator 3.5 to 7.0 cy	17148.76	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 27	Operator G2 Finish Blade	119.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 27	Teamster G3 ED 8-24cy, Water>7mg;	34297.53	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-27					
SF - Eastern - 28	Carpenter Journeyman	2075.47	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 28	Electrician Journeyman	4150.94	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 28	Laborer Foreman	21371.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 28	Laborer G2 General	26140	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 28	Laborer G4 Clean-up	16603.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 28	Operator G3 BH-Loader>3/4cy	8610.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 28	Operator G6 Tractor	6535	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 28	Teamster G1 Hwy ED<6cy, Flatbed	21371.9	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-28					
SF - Eastern - 29	Laborer Foreman	1895.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Laborer G2 General	15469	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Laborer G3 Fence Builder	7259.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	OPERATING ENGINEER FOREMAN	5638.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G8a Skidsteer <Bobcat 743	107.14	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G2 Excavator 3.5 to 7.0 cy	2921.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G2 Finish Blade	2339.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G3 BH-Loader>3/4cy	2688	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G3 Gradall	2867.76	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G3 Loader >4cy	5355.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G4 Dozer & Push Cat	895.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G4 Grade Check	1160.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G4 Scraper	555.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G4 Trim Machine	819.64	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G5 Compactor w-blade	2093.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G6 Tractor	334	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G7 Roller, Compactor	340.74	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Operator G8 Pump	603.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Teamster G1 Hwy ED<6cy, Flatbed	4321.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Teamster G2 Hwy ED 6-8cy, Water<7	2564.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Teamster G3 ED 8-24cy, Water>7mg;	9142.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 29	Teamster G4 ED 25-65 Cy	2458.9	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-29					
SF - Eastern - 30	Carpenter Foreman	1187.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Carpenter Journeyman	8309.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Cement Mason Foreman	12.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Cement Mason Journeyman	36.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Iron Worker Foreman	1026.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Iron Worker Journeyman Rebar/Stru	6160.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Laborer Foreman	310	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Laborer G1 Vibrator, Green Cutter	63.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Laborer G2 Concrete Laborer	1675.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Laborer G2 General	6227.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Laborer G2 High Pressure Nozzlemar	13.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Laborer G3 Dumpman	171.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	OPERATOR - MECHANIC	137.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	OPERATING ENGINEER FOREMAN	2115.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G1a Cranes>100 t	7725.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G2 Excavator 3.5 to 7.0 cy	597.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G2 Finish Blade	134.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G2 Plant Operator	2476	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G2a Cranes 45 to 100 t	792.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G3 BH-Loader>3/4cy	1310.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G3 Loader >4cy	447	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G3a Cranes 45 t and under	1169.23	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G4 Dozer & Push Cat	1419	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G4 Grade Check	1482.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G4 Hvy Duty Mechanic	6.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G4 Scraper	808.29	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G4 Trim Machine	3.93	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G5 Compactor w-blade	269.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G5 Drilling & Boring Mach	1000	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G7 Roller, Compactor	171.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G6 Tractor	171.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Operator G7 Oiler	1863	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Pile Driver Foreman	550	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Pile Driver Wharf and Dock	2200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Teamster G1 Hwy ED<6cy, Flatbed	1553.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Teamster G2 Hwy ED 6-8cy, Water<7	1255.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 30	Teamster G4 ED 25-65 Cy	11.8	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-30					
SF - Eastern - 31	Carpenter Apprentice	350	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Carpenter Foreman	7363.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Carpenter Journeyman	53266.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Cement Mason Foreman	1489.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Cement Mason Journeyman	5948.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Electrical Foreman	175	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Electrician Journeyman	600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Iron Worker Foreman	8058	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Iron Worker Journeyman Rebar/Stru	49182.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Laborer Foreman	1203.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Laborer G1 Vibrator, Green Cutter	661.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Laborer G2 Concrete Laborer	10972.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Laborer G2 General	32075.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Laborer G3 Dumpman	33.33	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	OPERATING ENGINEER FOREMAN	8576	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	OPERATOR - MECHANIC	3524.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G1 Excavator >7CY	205.39	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G1a Cranes>100 t	4408.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G2 Excavator 3.5 to 7.0 cy	610	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G2 Finish Blade	215.4	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 31	Operator G3 BH-Loader>3/4cy	7727.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G2 Plant Operator	11973.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G2a Cranes 45 to 100 t	4283.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G3 Loader >4cy	4368.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G3a Cranes 45 t and under	4596.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G5 Concrete Pump	1380.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G4 Dozer & Push Cat	3925.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G4 Grade Check	7760.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G4 Hvy Duty Mechanic	132.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G5 Drilling & Boring Mach	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G5 Compactor w-blade	35.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Operator G7 Oiler	8028.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Pile Driver Foreman	244	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Pile Driver Wharf and Dock	976	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Teamster G5 ED >65cy	1026.96	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Teamster G1 Hwy ED<6cy, Flatbed	8413.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Teamster G2 Hwy ED 6-8cy, Water<7	4262.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Teamster G3 Boom Truck	175	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Teamster G3 ED 8-24cy, Water>7mg;	17144.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Teamster G4 ED 25-65 Cy	610	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 31	Teamster G4 Tractor, Lowbed/Trailer	401.9	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-31					
SF - Eastern - 32	Carpenter Apprentice	60	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Carpenter Foreman	980	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Carpenter Journeyman	3180	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Electrical Lineman	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Electrical Foreman	900	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Electrician Journeyman	2500	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Iron Worker Foreman	98	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Iron Worker Journeyman Rebar/Stru	508.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Iron Worker Rigger	518	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Laborer G2 Concrete Laborer	2481.17	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Laborer G2 General	1830.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Operator G1a Cranes>100 t	237.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Operator G3 BH-Loader>3/4cy	222.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Operator G2a Cranes 45 to 100 t	1018	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Operator G4a Boom truck<15 ton	616.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Operator G3a Cranes 45 t and under	616.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Pipefitter Apprentice	888.89	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Pipefitter Foreman	222.22	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Pipefitter Journeyman	2133.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Teamster G1 Hwy ED<6cy, Flatbed	734	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 32	Teamster G4 Tractor, Lowbed/Trailer	222.2	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-32					
SF - Eastern - 33	Bullgang Foreman	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Bullgang Laborer	1600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Carpenter	1892	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Carpenter Foreman	287	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Compactor Operator	648	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Grade Setter / Checker	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Grader Operator	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Dozer Operator	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Flagger	648	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Iron Worker	5000	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Flat Truck Driver	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	General Foreman	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	General Laborer	1772	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Hyd Crane Operator	2201	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Iron Worker Foreman	500	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Loader Operator	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Laborer G2 General	17040	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Mechanic / Welder	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Operating Engineer	5680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Operator G2 Plant Operator	11360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Operator G3 BH Loader	5680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Operator G3a Crane	5680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Operator G4 Grade Check	5680	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 33	Operator G4 Heavy Duty Mechanic	5680	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-33					
SF - Eastern - 34	Bottomlander	247	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Bullgang Foreman	16	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Bullgang Laborer	32	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Carpenter Foreman	318	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Carpenter	1272.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Concrete Superintendent	3360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Cost Engineer	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Crane Oiler	2118	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Dozer Operator	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Electrical Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	EMT	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Environmental Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Equipment Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Excavator Operator	405.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Field Engineer	5040	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Flat Truck Driver	16	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	General Foreman	1658	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	General Laborer	8479.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	General Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Geotechnical Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Grade Setter / Checker	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Grader Operator	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Hyd Crane Operator	1598.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Iron Worker	9158.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Iron Worker Foreman	1633.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Lead Miner	698.3	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 34	Loader Operator	1028.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Mechanic/Welder	1294	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Miner	6192.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Office Administrator	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Office Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Project Engineer	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Project Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	QC Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	QC Technician	3360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Runner	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Safety Engineer	13440	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Safety Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Schedule Engineer	3360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Shaft Crane Operator	2365	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Shift Engineers	13440	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Shifter	2313.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Survey Party Chief	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Survey Rod Man	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Toplander	1447	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Truck Driver	3971.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Tunnel Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 34	Tunnel Walkers	13440	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-34					
SF - Eastern - 35	Bottomlander	1330.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Bulgang Foreman	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Bulgang Laborer	960	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Concrete Pump Operator	295	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Crane Oiler	1924.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Electrician	1279.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Heavy Duty Mechanic Welder	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Hyd Crane Operator	760	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Iron Worker	3948.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Iron Worker Foreman	493.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Lead Miner	1423	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Master Mechanic	480	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Mechanic/Welder	1688	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Miner	9831.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Shaft Crane Operator	1976.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Shifter	1494	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Toplander	1816.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 35	Truck Driver	2179.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-35					
SF - Eastern - 36	Bottomlander	9170	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Bulgang Foreman	7693.9	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Bulgang Laborer	25595.5	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Conveyor Belt Man	4700	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Crane Oiler	9170	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Dozer Operator	4600	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Electrician	11350	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Fanline Carrier Operator	5000	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Flat Truck Driver	2590	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Hyd Crane Operator	5580	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Lead Miner	5750	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Loader Operator	4600	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Man Transport Truck Operator	5103.9	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Master Mechanic	2500	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Mechanic/Welder	16440	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Miner	43620	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Operating Engineer	4600	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Operator G2 Plant Operator	4600	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Segment Carrier Operator	32000	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Shaft Crane Operator	9170	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Shifter	5750	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	TBM Operator	10200	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Toplander	9170	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 36	Utility Truck Operator	5103.9	20	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-36					
SF - Eastern - 37	Bottomlander	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Bulgang Foreman	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Bulgang Laborer	600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Crane Oiler	815	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Electrician	1854	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Forklift Operator	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Heavy Duty Mechanic Welder	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Hyd Crane Operator	815	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Lead Miner	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Master Mechanic	300	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Mechanic/Welder	1854	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Miner	4504	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Shaft Crane Operator	1139	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Shifter	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Toplander	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 37	Utility Truck Operator	174	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-37					
SF - Eastern - 38	Bottomlander	247	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Bulgang Foreman	16	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Bulgang Laborer	32	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Carpenter Foreman	318	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Carpenter	1272.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Compactor Operator	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Concrete Superintendent	3360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Cost Engineer	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Crane Oiler	2118	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Dozer Operator	3090	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 38	Electrical Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	EMT	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Environmental Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Equipment Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Excavator Operator	405.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Field Engineer	5040	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Flat Truck Driver	16	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	General Foreman	1658	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	General Laborer	10137.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	General Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Geotechnical Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Grade Setter / Checker	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Grader Operator	3090	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Hyd Crane Operator	1698.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Iron Worker	9158.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Iron Worker Foreman	1633.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Lead Miner	798.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Loader Operator	1028.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Mechanic/Welder	1294	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Miner	6992.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Office Administrator	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Office Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Operating Engineer	2133	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Project Engineer	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Project Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	QC Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	QC Technician	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Runner	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Safety Engineer	13440	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Safety Manager	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Schedule Engineer	3360	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Shaft Crane Operator	2365	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Shift Engineers	13440	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Shifter	2413.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Survey Party Chief	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Survey Rod Man	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Teamster G1 Hwy	2133	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Teamster G2 Hwy	2133	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Toplander	1447	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Truck Driver	3971.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Tunnel Superintendent	6720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 38	Tunnel Walkers	13440	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-38					
SF - Eastern - 39	Bottomlander	1330.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Bullgang Foreman	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Bullgang Laborer	960	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Concrete Pump Operator	295	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Crane Oiler	1924.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Electrician	1279.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Heavy Duty Mechanic Welder	160	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Hyd Crane Operator	660	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Iron Worker	3948.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Iron Worker Foreman	493.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Lead Miner	1323	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Master Mechanic	480	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Mechanic/Welder	1688	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Miner	9031.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Shaft Crane Operator	1976.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Shifter	1394	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Toplander	1816.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 39	Truck Driver	2185.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-39					
SF - Eastern - 40	Bottomlander	9181	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Bullgang Foreman	7609	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Bullgang Laborer	25429.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Conveyor Belt Man	4710	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Crane Oiler	9181	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Dozer Operator	4610	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Electrician	11360	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Fanline Carrier Operator	5000	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Flat Truck Driver	2504	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Hyd Crane Operator	5408	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Lead Miner	5760	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Loader Operator	4610	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Man Transport Truck Operator	5105.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Master Mechanic	2500	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Mechanic/Welder	18864	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Miner	43728	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Operating Engineer	4610	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Operator G2 Plant Operator	4610	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Segment Carrier Operator	32030	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Shaft Crane Operator	9181	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Shifter	6475	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	TBM Operator	10220	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Toplander	9181	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 40	Utility Truck Operator	5105.3	20	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-40					
SF - Eastern - 41	Bottomlander	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Bullgang Foreman	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Bullgang Laborer	600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Crane Oiler	815	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Electrician	1854	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Forklift Operator	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Heavy Duty Mechanic Welder	100	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Hyd Crane Operator	815	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 41	Lead Miner	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Master Mechanic	300	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Mechanic/Welder	1854	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Miner	4504	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Shaft Crane Operator	1139	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Shifter	324	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Toplander	1039	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 41	Utility Truck Operator	174	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-41					
SF - Eastern - 42	Bullgang Foreman	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Bullgang Laborer	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Carpenter	252	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Carpenter Foreman	63	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Compactor Operator	4256.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Concrete Superintendent	9184	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Cost Engineer	18368	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Dozer Operator	4054.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Electrical Superintendent	18368	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	EMT	18368	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Environmental Manager	18368	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Equipment Superintendent	18368	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Field Engineer	13776	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Flagger	404	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Flat Truck Driver	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	General Foreman	202	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	General Laborer	530	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	General Superintendent	18368	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Geotechnical Manager	18368	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Grade Setter / Checker	4054.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Grader Operator	4054.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Hyd Crane Operator	863	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Loader Operator	202	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Mechanic/Welder	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Office Administrator	18368	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Office Manager	18368	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Operating Engineer	3547	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Project Engineer	18368	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Project Manager	18368	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	QC Manager	18368	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	QC Technician	9184	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Runner	18368	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Safety Engineer	36736	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Safety Manager	18368	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Schedule Engineer	9184	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Shift Engineers	36736	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Survey Party Chief	18368	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Survey Rod Man	18368	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Teamster G1 Hwy	3547	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Teamster G2 Hwy	3547	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Truck Driver	3852	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Tunnel Superintendent	18368	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Tunnel Walkers	36736	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Operator G2 Plant Operator	7094	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Operator G3 BH Loader	3547	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Operator G3a Crane	3547	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Operator G4 Grade Check	3547	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 42	Operator G4 Heavy Duty Mechanic	3547	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-42					
SF - Eastern - 43	Bottomlander	247	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Bullgang Foreman	16	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Bullgang Laborer	32	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Carpenter Foreman	480.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Carpenter	2426.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Compactor Operator	244	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Crane Oiler	1858	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Dozer Operator	122	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Excavator Operator	405.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Flagger	244	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Flat Truck Driver	16	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	General Foreman	1703	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	General Laborer	9166.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Grade Setter / Checker	122	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Grader Operator	122	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Hyd Crane Operator	1597.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Iron Worker	8892.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Iron Worker Foreman	1417.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Lead Miner	721.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Loader Operator	1150.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Mechanic/Welder	1217	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Miner	6376.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Shaft Crane Operator	2105	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Shifter	1620.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Toplander	1341	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 43	Truck Driver	1297.6	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-43					
SF - Eastern - 44	Bottomlander	737	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Concrete Pump Operator	251.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Crane Oiler	1083	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Electrician	119.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Iron Worker	3196.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Iron Worker Foreman	399.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Lead Miner	735.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Mechanic Welder	484.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Miner	4331	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Shaft Crane Operator	1135	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 44	Shifter	806.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Toplander	1135	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 44	Truck Driver	1518	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-44					
SF - Eastern - 45	Compactor Operator	3033	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	Dozer Operator	4367.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	General Foreman	0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	Grade Setter / Checker	4367.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	Grader 16H - 16' Blade	0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	Grader Operator	7400.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	Loader Operator	1334.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	Operator G4 Grade Check	0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	Scraper Operator	0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 45	Truck Driver	4367.6	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-45					
SF - Eastern - 46	Bottomlander	247	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Bullgang Foreman	96	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Bullgang Laborer	192	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Carpenter Foreman	376.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Carpenter	1746.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Compactor Operator	3445	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Crane Oiler	1858	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Dozer Operator	3445	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Excavator Operator	405.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Flat Truck Driver	96	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	General Foreman	1581	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	General Laborer	8214.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Grade Setter / Checker	3445	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Grader Operator	3445	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Hyd Crane Operator	1781.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Iron Worker	8388.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Iron Worker Foreman	1479.1	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Lead Miner	721.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Loader Operator	1028.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Mechanic/Welder	1297	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Miner	6376.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Shaft Crane Operator	2105	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Shifter	2182.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Toplander	1341	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 46	Truck Driver	4478.7	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-46					
SF - Eastern - 47	Bottomlander	737	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Bullgang Foreman	149.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Bullgang Laborer	896	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Concrete Pump Operator	251.2	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Crane Oiler	1232.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Electrician	268.5	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Heavy Duty Mechanic Welder	149.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Hyd Crane Operator	149.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Iron Worker	3196.8	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Iron Worker Foreman	399.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Lead Miner	735.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Master Mechanic	448	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Mechanic/Welder	633.6	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Miner	4331	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Shaft Crane Operator	1284.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Shifter	653.4	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 47	Toplander	1135	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-47					
SF - Eastern - 48	Bottomlander	66338.5	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Bullgang Foreman	48787.2	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Bullgang Laborer	164427.2	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Conveyor Belt Man	36932.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Crane Oiler	66338.5	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Dozer Operator	32391.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Electrician	72166	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Fanline Carrier Operator	32760	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Flat Truck Driver	15360.8	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Hyd Crane Operator	31561.6	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Master Mechanic	16380	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Lead Miner	38379.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Loader Operator	32391.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Mechanic/Welder	103906.8	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Miner	284671.2	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Operator G2 Plant Operator	32391.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Operating Engineer	32391.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Segment Carrier Operator	229322.7	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Shaft Crane Operator	66338.5	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Shifter	38379.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	TBM Operator	67537.3	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Toplander	66338.5	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Truck Driver	7982.8	20	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 48	Utility Truck Operator	33426.4	20	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-48					
SF - Eastern - 49	Bottomlander	1554	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Bullgang Foreman	93.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Bullgang Laborer	560	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Crane Oiler	760.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Electrician	2314.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Flat Truck Driver	0	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Forklift Operator	886.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Heavy Duty Mechanic Welder	93.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Hyd Crane Operator	93.3	10	Stockton to/from Southern Complex on Byron Tract	32

SF - Eastern - 49	Lead Miner	1554	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Master Mechanic	280	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Mechanic/Welder	2314.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Miner	7709.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Shaft Crane Operator	1647.3	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Shifter	1554	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Toplander	1554	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 49	Utility Truck Operator	746.7	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-49					
SF - Eastern - 50	Carpenter Apprentice	384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 50	Carpenter Foreman	384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 50	Electrical Foreman	192	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 50	Electrician Journeyman	384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 50	Iron Worker Journeyman Rebar/Stru	768	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 50	Laborer G2 General	768	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 50	Millwright	384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 50	Operator G2a Cranes 45 to 100 t	384	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 50	Teamster G3 Boom Truck	192	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-50					
SF - Eastern - 51	Carpenter Apprentice	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 51	Carpenter Foreman	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 51	Electrical Foreman	200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 51	Electrician Journeyman	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 51	Iron Worker Journeyman Rebar/Stru	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 51	Laborer G2 General	800	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 51	Millwright	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 51	Operator G2a Cranes 45 to 100 t	400	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 51	Teamster G3 Boom Truck	200	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-51					
SF - Eastern - 52	Laborer G4 Clean-up	34209.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 52	OPERATING ENGINEER FOREMAN	17104.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 52	Operator G2 Micro Tunnel	2883	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 52	Operator G2 Plant Operator	11839	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 52	Operator G3 Loader >4cy	34209.7	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 52	Operator G4 Loader <4.1cy	5766	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 52	Operator G5 Concrete Pump	11839	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 52	Operator G7 Oiler	5265.9	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 52	Operator G8a Skidsteer <Bobcat 743	11839	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-52					
SF - Eastern - 53	Laborer G2 General	404	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 53	OPERATING ENGINEER FOREMAN	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 53	Operator G3 BH-Loader>3/4cy	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 53	Operator G4 Grade Check	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 53	Operator G5 Asphalt Roller	202	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 53	Operator G5 Paver	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 53	Teamster G2 Hwy ED 6-8cy, Water<7	50.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-53					
SF - Eastern - 54	Laborer G2 General	404	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 54	OPERATING ENGINEER FOREMAN	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 54	Operator G3 BH-Loader>3/4cy	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 54	Operator G4 Grade Check	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 54	Operator G5 Asphalt Roller	202	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 54	Operator G5 Paver	101	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 54	Teamster G2 Hwy ED 6-8cy, Water<7	50.5	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-54					
SF - Eastern - 55	Laborer G2 Concrete Laborer	600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Laborer G2 General	280	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Laborer G3 Flagman	880	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	OPERATING ENGINEER FOREMAN	720	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Operator G2 Excavator 3.5 to 7.0 cy	1200	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Operator G2 Finish Blade	210	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Operator G3 Loader >4cy	40	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Operator G4 Dozer & Push Cat	3180	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Operator G4 Scraper	2000	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Operator G6 Tractor	640	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Teamster G2 Hwy ED 6-8cy, Water<7	4600	10	Stockton to/from Southern Complex on Byron Tract	32
SF - Eastern - 55	Teamster G4 ED 25-65 Cy	200	10	Stockton to/from Southern Complex on Byron Tract	32
TOTAL SF - Eastern-55					

Marine Inventory for Southern Complex on Byron Tract - Eastern
Option 8

Code	Dock Site	# of Vessels/Day	Engine Tier	Propulsion Engine (hours/day)	Auxiliary Engine (hours/day)	Propulsion Engine Horsepower	Auxiliary Engine Horsepower	Fuel Type	Fuel (gal/day) (if known)
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NOT NEEDED

Locomotive Inventory for Southern Complex on Byron Tract - Eastern
Option 8

Code	# day	Locomotive Type	From Depot Site	Delivery Depot	Rail Cars	Rail Cars/Day	Main Railroad	Engine Tier	Engine Horsepower	Operating Hours/Day	Idle Hours/Day	Miles/Day	Fuel (gal/day) (if known)
SF - Eastern - 5	5	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 6	159	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 7	261	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 9	212	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 10	81	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 11	283	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 12	691	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 13	834	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 14	623	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 15B	227	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 16	154	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 17	33	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 18	29	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 19	336	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 20	715	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 22	233	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 23	201	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 24	181	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 26	1355	Cement, Aggregate, Sand, Flyash, B	Stockton	Southern Complex	2398	1.8	UPRR						
SF - Eastern - 27	1749	Soil Material	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 29	274	Riprap	Stockton	Southern Complex	27495	100.5	UPRR						
SF - Eastern - 30	185	Cement, Aggregate, Sand, Flyash, B	Stockton	Southern Complex	393	2.1	UPRR						
SF - Eastern - 31	649	Cement, Aggregate, Sand, Flyash, B	Stockton	Southern Complex	1538	2.4	UPRR						
SF - Eastern - 34	771	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 35	88	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 36	344	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 37	35	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 38	961	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 39	277	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 40	417	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 41	35	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 43	239	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 46	443	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						
SF - Eastern - 48	1980	Cement, Aggregate, Sand, Flyash	Stockton	Southern Complex		0.0	UPRR						

Helicopter Inventory for Southern Complex on Byron Tract - Central Option 8

For 36 new transmission towers along 8.3 miles of new 230 kV line

Code	Helicopter Type	Fuel Type	LTO per day	Cruise/Hover Hours per Day	Fuel (gal/day) (if known)
SF - Central 5			2		

Earthmoving/Paving Assumptions for Southern Complex on Byron Tract - Eastern
Option 8

Code	Stripping or Grading (acres)	# day	Stripping or Grading (acres/day)	Cut (cy)	Cut (cy/day)	Fill (cy)	Fill (cy/day)	Dredge (cy)	Dredge (cy/day) Intake & Spillway, Only	Paving (sf)	Paving (sf/day)
SF - Eastern - 1		207									
SF - Eastern - 2		323									
SF - Eastern - 3		253		90891	359	238663	944				
SF - Eastern - 4		227		48121	212	100678	443			1403505	6179
SF - Eastern - 5	30.72	5	6.1			14400	2880				
SF - Eastern - 7		159		1000	6	5000	31			243302	1527
SF - Eastern - 9		212		960	5	4800	23				
SF - Eastern - 10		81				4272	53				
SF - Eastern - 11		283		68391.4	242	28061.2	99				
SF - Eastern - 12		691		239905	347						
SF - Eastern - 13		834		69731.5	84	4601.3	6				
SF - Eastern - 14		623		112320	180		0				
SF - Eastern - 15B		352		191136	543	22486.6	64				
SF - Eastern - 16		154				4336	28				
SF - Eastern - 17		33				652.8	20				
SF - Eastern - 18		29				1451	50				
SF - Eastern - 19		336				9585	29			215153	641
SF - Eastern - 20		715					0				
SF - Eastern - 22		233					0				
SF - Eastern - 23		201		150974	752	185339	923			126720	631
SF - Eastern - 24	921	181	5.1				0				
SF - Eastern - 25		445		2799678	6291	70220	158				
SF - Eastern - 26		1355				9774800	7214				
SF - Eastern - 27		1749									
SF - Eastern - 28		2190									
SF - Eastern - 29	3	274	0.01		0	344210	1258				
SF - Eastern - 30		185		61000	330	102835	556				
SF - Eastern - 31		649		154044	238	2000	3				
SF - Eastern - 32		136									
SF - Eastern - 33		256									
SF - Eastern - 34		771		109027	141	135982	176				
SF - Eastern - 35		88									
SF - Eastern - 36		344									
SF - Eastern - 37		35									
SF - Eastern - 38		961		109027	113	135982	142				
SF - Eastern - 39		277									
SF - Eastern - 40		417									
SF - Eastern - 42	11.6	1660	0.0			169539	102				
SF - Eastern - 43	7	239	0.0	95485	400						
SF - Eastern - 44		91									
SF - Eastern - 45		165		133481	809						
SF - Eastern - 46		443		81434	184	151582	342				
SF - Eastern - 48		1980		5664.4	3						
SF - Eastern - 49		70									
SF - Eastern - 50		40									
SF - Eastern - 51		39									
SF - Eastern - 53		12								431730	35978
SF - Eastern - 54		10								431730	43173
SF - Eastern - 55	376	239	1.6			983488	4110				

**Demolition Assumptions for Southern Complex on Byron Tract - Eastern
Option 8**

Code	# of Structures Demolished	# day	Demolition per day (sf)
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NOT NEEDED

**Construction Schedule for Southern Complex West of Byron Highway - South Delta Conv - Central & Eastern
Options 1A, 1B, 2A, 2B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B
THE QUANTITIES FOR THIS FEATURE ARE THE SAME AS INCLUDED IN APPENDIX F - ATTACHMENT 1**

NOTE: COLUMNS WITH TITLE BLOCK HIGHLIGHTED IN YELLOW ARE REQUESTED BY ICF. OTHER COLUMNS PROVIDE DATA USED TO CALCULATE THE REQUESTED INFORMATION

Phase	Code	Start Date	End Date	Working Days	Days/Week	Work Hours/Day
Mobilization - Gravel Bedding, Formwork, Rebar, Concrete for Slabs	SDC - Central & Eastern - 1	6/19/2030	8/22/2030	46	5	10
Roads, Utilities, Construction Office, Shops, Other Structures	SDC - Central & Eastern - 2	6/25/2030	10/11/2030	80	5	10
Utility, Facility, and Plant Operations	SDC - Central & Eastern - 3	10/14/2030	3/17/2037	1675	5	10
Tunnel Outlet Excavation & Cofferdam	SDC - Central & Eastern - 4	5/8/2030	5/8/2031	261	5	10
South Delta Tunnel Outlet Structure Excavation, Sheet Piles, Forms	SDC - Central & Eastern - 5	5/8/2030	5/6/2031	259	5	10
Reception Shaft - East: Slurry Wall and Guide Wall	SDC - Central & Eastern - 6	5/7/2031	9/12/2031	93	5	10
Reception Shaft - East: Tremie Seal	SDC - Central & Eastern - 7	9/8/2031	9/16/2031	9	7	24
Reception Shaft - East: Dewater Shaft	SDC - Central & Eastern - 8	9/22/2031	9/26/2031	5	5	10
Reception Shaft - East: Tunnel Cradle	SDC - Central & Eastern - 9	9/29/2031	10/6/2031	5	5	10
Reception Shaft - East: Slurry Wall Breakout	SDC - Central & Eastern - 10	10/7/2031	10/31/2031	19	5	10
Reception Shaft - East: Assemble Shaft with Concrete	SDC - Central & Eastern - 11	10/27/2031	1/6/2032	52	5	10
Reception Shaft - West: Slurry Wall and Guide Wall	SDC - Central & Eastern - 12	7/10/2031	12/9/2031	111	5	10
Reception Shaft - West: Tremie Seal	SDC - Central & Eastern - 13	2/6/2032	2/16/2032	10	7	24
Reception Shaft - West: Dewater Shaft	SDC - Central & Eastern - 14	2/20/2032	2/26/2032	5	5	10
Reception Shaft - West: Tunnel Cradle	SDC - Central & Eastern - 15	2/27/2032	3/5/2032	6	5	10
Reception Shaft - West: Slurry Wall Breakout	SDC - Central & Eastern - 16	3/8/2032	4/1/2032	19	5	10
Reception Shaft - West: Assemble Shaft with Concrete	SDC - Central & Eastern - 17	4/2/2032	6/14/2032	54	5	10
Calif Aqueduct Div Channel Excavation and Earthwork	SDC - Central & Eastern - 18	5/8/2030	10/18/2032	640	5	10
Calif Aqueduct Control Structure: Cofferdam	SDC - Central & Eastern - 19	2/3/2031	1/22/2032	350	5	10
Calif Aqueduct Control Structure: Construct Concrete Slabs and Fram	SDC - Central & Eastern - 20	1/8/2032	12/24/2032	250	5	10
Calif Aqueduct Control Structure: Remove Cofferdam	SDC - Central & Eastern - 21	1/25/2033	4/15/2033	59	5	10
Calif Aqueduct Control Structure: Construct Walls	SDC - Central & Eastern - 22	5/25/2032	9/27/2032	90	5	10
Calif Aqueduct Control Structure: Weir and Bridge	SDC - Central & Eastern - 23	9/28/2032	12/3/2032	49	5	10
Calif Aqueduct Control Structure: Gates and Stoplogs	SDC - Central & Eastern - 24	12/3/2032	4/21/2033	100	5	10
South Delta Tunnel Outlet: Excavation	SDC - Central & Eastern - 25	4/24/2034	4/13/2035	253	5	10
South Delta Tunnel Outlet Structure: Construct Slabs and Walls	SDC - Central & Eastern - 26	4/24/2034	7/30/2036	592	5	10
South Delta Tunnel Outlet Building: Construct Slabs and Walls	SDC - Central & Eastern - 27	6/27/2035	1/6/2037	660	5	10
South Delta Tunnel Outlet Building: Gates and Stoplogs	SDC - Central & Eastern - 28	4/2/2036	1/16/2037	208	5	10
South Delta Tunnel Outlet Building: Remove Cofferdam and Construc	SDC - Central & Eastern - 29	1/6/2037	3/17/2037	51	5	10
Southern Complex West of Byron Highway: Site Restoration	SDC - Central & Eastern - 30	1/27/2037	5/4/2037	70	5	10

Total Site Acres

150

APPENDIX G – ATTACHMENT 5

Stockpile Information, Concrete Batch Production, and Power Demand for Eastern Corridor Options

FINAL DRAFT

Input Template for Material Moved Via Conveyors

Conveyance of RTM at Launch Shaft and Southern Complex sions per day = pounds per CY per transfer * # transfers * CY handled per day

Options	Code	Feature Category	Feature	Start Date	End Date	Working Days	RTM Moved Via Conveyor (cy/day)	Number of transfer points where RTM "drops" between elevations (and therefore, creates dust)	Notes
Option 2	TCC-Central & Eastern - 24: Tunneling Reach 1	Shafts	Twin Cities	11/6/2030	5/8/2036	1,853	2,440	4	RTM volumes based on average excavation rates Wet excavated volumes used
Option 2	TCC-Central & Eastern - 26: Tunneling Reach 2	Shafts	Twin Cities	6/6/2030	12/4/2036	2,064	2,440	4	
Option 2	LRI-Eastern - 20: Tunneling Reach 3	Shafts	Lower Roberts	4/17/2031	4/22/2036	1571	2,440	6	
Option 2	SF - Central - 32: Tunneling Reach 4	Shafts	Launch/Working Shaft on Byron Tract	8/15/2031	11/8/2038	2264	2,440	5	
Option 2	SF - Central - 33: Tunneling Reaches SE & SW	Shafts	Launch Shafts at Outlet	8/20/2031	4/13/2034	829	2,606	4	
Option 6	TCC-Central & Eastern - 24: Tunneling Reach 1	Shafts	Twin Cities	7/9/2031	5/5/2034	736	1,608	4	
Option 6	TCC-Central & Eastern - 26: Tunneling Reach 2	Shafts	Twin Cities	6/6/2030	12/4/2036	2,064	1,608	4	
Option 6	LRI-Eastern - 20: Tunneling Reach 3	Shafts	Lower Roberts	6/26/2031	8/9/2035	1076	1,608	6	
Option 6	SF - Central - 32: Tunneling Reach 4	Shafts	Launch/Working Shaft on Byron Tract	5/27/2031	1/12/2037	1469	1,608	5	
Option 6	SF - Central - 33: Tunneling Reaches SE & SW	Shafts	Launch Shafts at Outlet	8/20/2031	4/13/2034	829	2,606	4	
Option 8	TCC-Central & Eastern - 24: Tunneling Reach 1	Shafts	Twin Cities	11/6/2030	9/26/2034	1,014	2,091	4	
Option 8	TCC-Central & Eastern - 26: Tunneling Reach 2	Shafts	Twin Cities	1/4/2030	12/17/2035	1,545	2,091	4	
Option 8	LRI-Eastern - 20: Tunneling Reach 3	Shafts	Lower Roberts	6/26/2031	1/7/2036	1183	2,091	6	
Option 8	SF - Central - 32: Tunneling Reach 4	Shafts	Launch/Working Shaft on Byron Tract	12/5/2031	2/26/2038	1625	2,091	5	
Option 8	SF - Central - 33: Tunneling Reaches SE & SW	Shafts	Launch Shafts at Outlet	8/20/2031	3/2/2034	767	2,606	4	
Option 10	TCC-Central & Eastern - 24: Tunneling Reach 1	Shafts	Twin Cities	11/6/2030	8/20/2036	1,511	2,798	4	
Option 10	TCC-Central & Eastern - 26: Tunneling Reach 2	Shafts	Twin Cities	1/14/2030	11/3/2037	2,035	2,798	4	
Option 10	LRI-Eastern - 20: Tunneling Reach 3	Shafts	Lower Roberts	6/26/2031	7/21/2036	1322	2,798	6	
Option 10	SF - Central - 32: Tunneling Reach 4	Shafts	Launch/Working Shaft on Byron Tract	12/5/2031	6/23/2039	1969	2,798	5	
Option 10	SF - Central - 33: Tunneling Reaches SE & SW	Shafts	Launch Shafts at Outlet	8/20/2031	4/13/2034	802	2,798	4	
Option 10	SDC- Tunneling Reach 6 to Jones PP	Shafts	Launch Shaft at South Delta Outlet	10/5/2033	8/30/2034	236	1,084	4	No. of drops estimated based on other sites

Input Template for Material Put into Trucks or Rail Cars for Transport - including on-site

Question: If known, what is the average moisture content of the RTM put in trucks/rail cars for transport? If unknown, I will assume 12%.
Answer: For RTM to be transported from Twin Cities to the Southern Forebay, the intention is to dry it down to an average moisture content of 22%.

Truck/Rail Car Loading

Emissions per day = pounds per CY loaded * CY loaded per day

Option	Code	Feature Category	Feature	Start Date	End Date	Working Days	RTM Loaded in Truck/Rail Car (cy/day)	Total Export Vol.	Notes
Option 2	TCC-Central & Eastern - 24: T	Shafts	Twin Cities	11/6/2030	5/8/2036	188	2,318	869,818	Working days are back calculated based on total exported volume and rate of exportation Rate of export equal to average excavation rate Total working days split evenly between Reach 1 and 2 Dry excavated volumes used
Option 2	TCC-Central & Eastern - 26: T	Shafts	Twin Cities	6/6/2030	12/4/2036	188	2,318		
Option 2	LRI-Eastern - 20: Tunneling R	Shafts	Lower Roberts	4/17/2031	4/22/2036				
Option 2	SF - Central - 32: Tunneling R	Shafts	Launch/Working Shaft on Byron Tract	8/15/2031	11/8/2038				
Option 2	SF - Central - 33: Tunneling R	Shafts	Launch Shafts at Outl	8/20/2031	4/13/2034				
Option 6	TCC-Central & Eastern - 24: T	Shafts	Twin Cities	7/9/2031	5/5/2034	455	1,528	1,391,691	
Option 6	TCC-Central & Eastern - 26: T	Shafts	Twin Cities	6/6/2030	12/4/2036	455	1,528		
Option 6	LRI-Eastern - 20: Tunneling R	Shafts	Lower Roberts	6/26/2031	8/9/2035				
Option 6	SF - Central - 32: Tunneling R	Shafts	Launch/Working Shaft on Byron Tract	5/27/2031	1/12/2037				
Option 6	SF - Central - 33: Tunneling R	Shafts	Launch Shafts at Outl	8/20/2031	4/13/2034				
Option 8	TCC-Central & Eastern - 24: T	Shafts	Twin Cities	11/6/2030	9/26/2034	274	1,986	1,090,066	
Option 8	TCC-Central & Eastern - 26: T	Shafts	Twin Cities	1/4/2030	12/17/2035	274	1,986		
Option 8	LRI-Eastern - 20: Tunneling R	Shafts	Lower Roberts	6/26/2031	1/7/2036				
Option 8	SF - Central - 32: Tunneling R	Shafts	Launch/Working Shaft on Byron Tract	12/5/2031	2/26/2038				
Option 8	SF - Central - 33: Tunneling R	Shafts	Launch Shafts at Outl	8/20/2031	3/2/2034				
Option 10	TCC-Central & Eastern - 24: T	Shafts	Twin Cities	11/6/2030	8/20/2036	16	2,658	84,701	
Option 10	TCC-Central & Eastern - 26: T	Shafts	Twin Cities	1/14/2030	11/3/2037	16	2,658		
Option 10	LRI-Eastern - 20: Tunneling R	Shafts	Lower Roberts	6/26/2031	7/21/2036				
Option 10	SF - Central - 32: Tunneling R	Shafts	Launch/Working Shaft on Byron Tract	12/5/2031	6/23/2039				
Option 10	SF - Central - 33: Tunneling R	Shafts	Launch Shafts at Outl	8/20/2031	4/13/2034				
Option 10	SDC - Tunneling Reach 6 to Joi	Shafts	Launch Shaft at South Delta Outlet	10/5/2033	8/30/2034	135	1,084	145,895	Assumes all RTM is off-hauled wet at the average rate of excavation (TBC)

Dust Emissions from RTM Stockpiles

							Dynamic Annual Assumptions																						
Stockpile Location	Feature Name	Option	Alternative	Air Basin	MAX Pile Size (acres)	IAX Pile Height (feet)	Max Pile Acres by Year										Max Pile Height (ft) by Year												
							2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039			
Twin Cities Complex - North	Twin Cities Stockpile Alt 3	2B	3	SVAB	66	16	66	66	66	66	66	66	66	0	0	0	0.1	20	20	20	20	20	20	0.0	0.0	0.0			
Twin Cities Complex - South	Twin Cities Stockpile Alt 3	2B	3	SVAB	159	16	107	107	107	107	107	107	107	159	0	0	20	20	20	20	20	207	20	0	0.0	0.0			
Lower Roberts Island	Lower Roberts Stockpile Alt 3	2B	3	SJVAB	196	15	0	196	196	196	196	196	196	71	0	0	0.0	0.4	2.0	3.6	5.2	6.8	7.0	15.0	0.0	0.0			
Southern Complex	S. Complex Stockpile Alt 3	2B	3	SFBAAB	289	15	289	289	289	289	289	289	289	289	289	30	0	10	10	10	10	10	10	10	10	10			
Twin Cities Complex - North	Twin Cities Stockpile Alt 4b	6B	4b	SVAB	20	24	0	5	15	24	1	0	0	0	0	0	0.0	4.9	14.7	23.7	1.2	1.2	0.0	0.0	0.0	0.0			
Twin Cities Complex - South	Twin Cities Stockpile Alt 4b	6B	4b	SVAB	44	15	5	8	13	23	32	16	3	0	0	0	0	20	20	20	20	20	20	0.0	0.0	0.0			
Lower Roberts Island	Lower Roberts Stockpile Alt 4b	6B	4b	SJVAB	129	15	0	129	129	129	129	129	33	0	0	0	0.0	0.0	1.5	3.0	4.5	5.0	15.0	0.0	0.0	0.0			
Southern Complex	S. Complex Stockpile Alt 4b	6B	4b	SFBAAB	289	10	0	22	38	32	6	6	7	0	0	0	0	10	10	10	10	10	10	0.0	0.0	0.0			
Twin Cities Complex - North	Twin Cities Stockpile Alt 4c	8B	4c	SVAB	43	16	0	10	23	35	28	9	2	0	0	0	0.1	20	20	20	20	20	20	0.0	0.0	0.0			
Twin Cities Complex - South	Twin Cities Stockpile Alt 4c	8B	4c	SVAB	84	17	8	14	21	34	46	58	55	0	0	0	20	20	20	20	20	20	20	0.0	0.0	0.0			
Lower Roberts Island	Lower Roberts Stockpile Alt 4c	8B	4c	SJVAB	168	15	0	168	168	168	168	168	50	0	0	0	0.0	0.0	1.7	3.2	4.7	5.8	15.0	0.0	0.0	0.0			
Southern Complex	S. Complex Stockpile Alt 4c	8B	4c	SFBAAB	289	15	0	6	25	44	6	7	14	35	0	0	0	10	10	10	10	10	10	10	0	0.0			
Twin Cities Complex - North	Twin Cities Stockpile Alt 4a	10B	4a	SVAB	99	20	0	17	35	53	71	89	98	0	0	0	0.0	20	20	20	20	20	20	0	0	0.0			
Twin Cities Complex - South	Twin Cities Stockpile Alt 4a	10B	4a	SVAB	291	18	15	24	35	51	68	84	101	114	0	0	20	20	20	20	20	20	20	0	0	0.0			
Lower Roberts Island	Lower Roberts Stockpile Alt 4a	10B	4a	SJVAB	225	15	0	225	225	225	225	225	225	93	0	0	0.0	0.6	2.3	4.0	5.7	7.4	7.9	15.0	0	0.0			
Southern Complex	S. Complex Stockpile Alt 4a	10B	4a	SFBAAB	289	15	0	10	39	58	29	18	19	39	59	65	0	15	15	15	15	15	15	15	15	15.0			

Onsite Batch Plant Information

Options	Facility & Location	Operational	Start Date	End Date	Working Days	Daily Operating Hrs	Operating Days Per Week	Options	Batch Rate (cy/day)	Type of Concrete	Daily V/WH	Activity Quantity (CY)
2	Lambert Road	Intake 3	5/10/2030	7/31/2036	1,625	10	5	2	111	Structure		180779
2	Lambert Road	Intake 5	6/28/2029	6/2/2035	1,547	10	5	2	121	Structure		188847
2	Lambert Road	Tunnels and Shafts Reach 1	8/15/2031	8/20/2035	231	10	5	2	135	Structure		291179
2	Lambert Road	Tunnels and Shafts Reach 2	10/29/2027	4/11/2030	644	10	5	2	158	Structure		305021
2	Southern Complex	BT Pumping Plant	4/30/2027	12/28/2035	2,353	10	5	2	95	Structure		239448
2	Southern Complex	Tunnels and Shafts Reach 4	8/30/2030	1/23/2032	373	10	5	2	218	Structure		81313
2	Southern Complex	Tunnels and Shafts Reach SE	8/23/2030	11/18/2031	323	10	5	2	201	Structure		65045
2	Southern Complex	Tunnels and Shafts Reach SW	8/12/2031	6/14/2032	329	10	5	2	160	Structure		52481
2	Southern Complex	South Delta Connections	7/25/2030	12/16/2036	1,669	10	5	2	89	Structure		148032
2	Southern Complex	Southern Forebay	8/28/2034	1/28/2036	371	10	5	2	98	Structure		36192
10	Lambert Road	Intake 2	3/4/2031	2/19/2037	1,558	10	5	10	116	Structure		180389
10	Lambert Road	Intake 3	6/10/2030	12/6/2035	1,455	10	5	10	125	Structure		181139
10	Lambert Road	Intake 5	6/28/2029	11/27/2034	1,413	10	5	10	132	Structure		188847
10	Lambert Road	Tunnels and Shafts Reach 1	8/15/2031	12/28/2032	316	10	5	10	141	Structure		44437
10	Lambert Road	Tunnels and Shafts Reach 2	10/29/2027	4/11/2030	644	10	5	10	167	Structure		107741
10	Southern Complex	BT Pumping Plant	4/30/2027	6/25/2035	2,189	10	5	10	94	Structure		239903
10	Southern Complex	Tunnels and Shafts Reach 4	8/30/2030	1/23/2032	373	10	5	10	237	Structure		88326
10	Southern Complex	Tunnels and Shafts Reach SE	8/23/2030	11/18/2031	323	10	5	10	210	Structure		63504
10	Southern Complex	Tunnels and Shafts Reach SW	8/12/2031	6/14/2032	325	10	5	10	106	Structure		55440
10	Southern Complex	Tunnels and Shafts Reach 6 Jones Tunnel	7/23/2031	11/23/2032	360	10	5	10	154	Structure		63554
10	Southern Complex	South Delta Connections	7/25/2030	1/23/2037	1,697	10	5	10	88	Structure		148032
10	Southern Complex	Southern Forebay	8/28/2034	1/28/2036	371	10	5	10	98	Structure		36192
6	Lambert Road	Intake 5	6/28/2029	6/2/2035	1,547	10	5	6	122	Structure		188847
6	Lambert Road	Tunnels and Shafts Reach 1	8/15/2031	12/28/2031	43	10	5	6	272	Structure		11102
6	Lambert Road	Tunnels and Shafts Reach 2	10/29/2027	4/11/2030	644	10	5	6	143	Structure		92363
6	Southern Complex	BT Pumping Plant	4/30/2027	12/25/2035	2,036	10	5	6	92	Structure		187937
6	Southern Complex	Tunnels and Shafts Reach 4	8/30/2030	1/23/2032	373	10	5	6	210	Structure		79434
6	Southern Complex	Tunnels and Shafts Reach SE	8/23/2030	11/18/2031	323	10	5	6	191	Structure		62690
6	Southern Complex	Tunnels and Shafts Reach SW	8/12/2031	6/14/2032	313	10	5	6	155	Structure		48312
6	Southern Complex	South Delta Connections	7/25/2030	12/16/2036	1,669	10	5	6	89	Structure		148032
6	Southern Complex	Southern Forebay	8/28/2034	1/28/2036	371	10	5	6	98	Structure		36192
8	Lambert Road	Intake 3	5/10/2030	8/14/2035	1,396	10	5	8	129	Structure		180779
8	Lambert Road	Intake 5	6/28/2029	1/16/2034	1,274	10	5	8	88	Structure		111787
8	Lambert Road	Tunnels and Shafts Reach 1	8/15/2031	8/20/2035	311	10	5	8	114	Structure		26271
8	Lambert Road	Tunnels and Shafts Reach 2	10/29/2027	4/11/2030	644	10	5	8	152	Structure		93879
8	Southern Complex	BT Pumping Plant	4/30/2027	6/23/2035	2,188	10	5	8	86	Structure		187907
8	Southern Complex	Tunnels and Shafts Reach 4	8/30/2030	1/23/2032	373	10	5	8	218	Structure		81313
8	Southern Complex	Tunnels and Shafts Reach SE	8/23/2030	11/18/2031	323	10	5	8	201	Structure		65045
8	Southern Complex	Tunnels and Shafts Reach SW	8/12/2031	6/14/2032	325	10	5	8	160	Structure		52481
8	Southern Complex	South Delta Connections	7/25/2030	12/16/2036	1,669	10	5	8	89	Structure		148032
8	Southern Complex	Southern Forebay	8/28/2034	1/28/2036	371	10	5	8	98	Structure		36192

Storage Piles

			Days per year the stockpile is actively used															
2028	Facility & Location	Operational	Pile Size (acres)	Pile Height (feet)	2024	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
1/1/2028					1/1/2025	1/1/2026	1/1/2027	1/1/2028	1/1/2029	1/1/2030	1/1/2031	1/1/2032	1/1/2033	1/1/2034	1/1/2035	1/1/2036	1/1/2037	
12/12/2028					12/12/2025	12/12/2026	12/12/2027	12/12/2028										
	Lambert Road	Intake 3	0.2	10														
	Lambert Road	Intake 5	0.2	10														
	Lambert Road	Tunnels and Shafts Reach 1	0.2	10														
260	Lambert Road	Tunnels and Shafts Reach 2	0.2	10														
260	Southern Complex	BT Pumping Plant	0.2	10														
	Southern Complex	Tunnels and Shafts Reach 4	0.2	10														
	Southern Complex	Tunnels and Shafts Reach SE	0.2	10														
	Southern Complex	Tunnels and Shafts Reach SW	0.2	10														
	Southern Complex	South Delta Connections	0.2	10														
	Southern Complex	Southern Forebay	0.2	10														
	Lambert Road	Intake 2	0.2	10														
	Lambert Road	Intake 3	0.2	10														
	Lambert Road	Intake 5	0.2	10														
260	Lambert Road	Tunnels and Shafts Reach 1	0.2	10														
260	Lambert Road	Tunnels and Shafts Reach 2	0.2	10														
	Southern Complex	BT Pumping Plant	0.2	10														
	Southern Complex	Tunnels and Shafts Reach 4	0.2	10														
	Southern Complex	Tunnels and Shafts Reach SE	0.2	10														
	Southern Complex	Tunnels and Shafts Reach SW	0.2	10														
	Southern Complex	Tunnels and Shafts Reach 6 Jones Tunnel	0.2	10														
	Southern Complex	South Delta Connections	0.2	10														
	Southern Complex	Southern Forebay	0.2	10														
	Lambert Road	Intake 3	0.2	10														
	Lambert Road	Tunnels and Shafts Reach 1	0.2	10														
	Lambert Road	Tunnels and Shafts Reach 2	0.2	10														
260	Lambert Road	Tunnels and Shafts Reach 2	0.2	10														
260	Southern Complex	BT Pumping Plant	0.2	10														
	Southern Complex	Tunnels and Shafts Reach 4	0.2	10														
	Southern Complex	Tunnels and Shafts Reach SE	0.2	10														
	Southern Complex	Tunnels and Shafts Reach SW	0.2	10														
	Southern Complex	South Delta Connections	0.2	10														
	Southern Complex	Southern Forebay	0.2	10														
	Lambert Road	Intake 3	0.2	10														
	Lambert Road	Intake 5	0.2	10														
	Lambert Road	Tunnels and Shafts Reach 1	0.2	10														
260	Lambert Road	Tunnels and Shafts Reach 2	0.2	10														
260	Southern Complex	BT Pumping Plant	0.2	10														
	Southern Complex	Tunnels and Shafts Reach 4	0.2	10														
	Southern Complex	Tunnels and Shafts Reach SE	0.2	10														
	Southern Complex	Tunnels and Shafts Reach SW	0.2	10														
	Southern Complex	South Delta Connections	0.2	10														
	Southern Complex	Southern Forebay	0.2	10														

m. what is the average silt content of the stockpile material? If known, I will use 6.9%.

Notes:

We use 5 tonish plant stockpiles.

Stockpile will consist of both coarse and fine aggregates.

Stockpiles will be used every working day, with material being processed for ready mix or grout and new material being brought in.

Days per year do not account for holidays.

Option

Offsite Batching Assumptions

Option	Facility Name (if known)	Facility Location (if known)	Type of Concrete (precast or structure)	Total Batch for Delta Conveyance (CY)	Year When Supply would Begin	Year When Supply would End	Tunnel length miles	ID ft	Vol cy/ft
2	Early Works - Logistics - Road	Sacramento	Concrete	370	2026	2026			
2	Reach 1	Sacramento	Pre Cast Segment 36' ID x 6' Wide	283026	2030	2034	8.19	36	6.54
2	Reach 2	Sacramento	Pre Cast Segment 36' ID x 6' Wide	438535	2030	2036	12.69	36	6.54
2	Reach 3	Lodi	Concrete	15456	2032	2033			
2	Reach 3	Stockton	Concrete	61788	2029	2032			
2	Reach 3	Stockton	Pre Cast Segment 36' ID x 6' Wide	328296	2031	2036	9.50	36	6.54
2	Reach 4	Stockton	Concrete	15811	2032	2032			
2	Reach 4	Stockton	Pre Cast Segment 36' ID x 6' Wide	407433	2031	2038	11.79	36	6.54
2	Reach 5E	Stockton	Pre-Cast 38' ID Segment 6'	67828	2031	2032	1.67	38	7.69
2	Reach 5W	Stockton	Pre-Cast 38' ID Segment 6'	67828	2032	2034	1.67	38	7.69
2	Early Works - Logistics - Road	Stockton	Concrete	52	2026	2026			
2	Early Works - Logistics - Road	Tracy	Concrete	664	2026	2026			
6	Early Works - Logistics - Road	Sacramento	Concrete	370	2026	2026			
6	Reach 1	Sacramento	Pre Cast Segment 36' ID x 6' Wide	72764	2031	2033	5.64	26	2.44
6	Reach 2	Sacramento	Pre Cast Segment 36' ID x 6' Wide	163720	2030	2035	12.69	26	2.44
6	Reach 3	Lodi	Concrete	11702	2032	2033			
6	Reach 3	Stockton	Concrete	56903	2029	2032			
6	Reach 3	Stockton	Pre Cast Segment 36' ID x 6' Wide	122564	2031	2035	9.50	26	2.44
6	Reach 4	Stockton	Concrete	15811	2032	2032			
6	Reach 4	Stockton	Pre Cast Segment 36' ID x 6' Wide	152108	2031	2037	11.79	26	2.44
6	Reach 5E	Stockton	Pre-Cast 38' ID Segment 6'	67828	2030	2031	1.67	38	7.69
6	Reach 5W	Stockton	Pre-Cast 38' ID Segment 6'	67828	2032	2033	1.67	38	7.69
6	Early Works - Logistics - Road	Stockton	Concrete	52	2026	2026			
6	Early Works - Logistics - Road	Tracy	Concrete	664	2026	2026			
8	Early Works - Logistics - Road	Sacramento	Concrete	370	2026	2026			
8	Reach 1	Sacramento	Pre Cast Segment 36' ID x 6' Wide	216917	2030	2034	8.19	31	5.02
8	Reach 2	Sacramento	Pre Cast Segment 36' ID x 6' Wide	336102	2030	2035	12.69	31	5.02
8	Reach 3	Lodi	Concrete	15456	2032	2033			
8	Reach 3	Stockton	Concrete	61788	2029	2032			
8	Reach 3	Stockton	Pre Cast Segment 36' ID x 6' Wide	251613	2031	2036	9.50	31	5.02
8	Reach 4	Stockton	Concrete	14230	2032	2032			
8	Reach 4	Stockton	Pre Cast Segment 36' ID x 6' Wide	312265	2031	2038	11.79	31	5.02
8	Reach 5E	Stockton	Pre-Cast 38' ID Segment 6'	67828	2031	2032	1.67	38	7.69
8	Reach 5W	Stockton	Pre-Cast 38' ID Segment 6'	67828	2032	2034	1.67	38	7.69
8	Early Works - Logistics - Road	Stockton	Concrete	52	2026	2026			
8	Early Works - Logistics - Road	Tracy	Concrete	664	2026	2026			
10	Early Works - Logistics - Road	Sacramento	Concrete	370	2026	2026			
10	Reach 1	Sacramento	Pre Cast Segment 36' ID x 6' Wide	531541	2030	2036	10.30	40	9.77
10	Reach 2	Sacramento	Pre Cast Segment 36' ID x 6' Wide	654879	2030	2037	12.69	40	9.77
10	Reach 3	Lodi	Concrete	16781	2032	2033			
10	Reach 3	Stockton	Concrete	64708	2029	2032			
10	Reach 3	Stockton	Pre Cast Segment 36' ID x 6' Wide	490256	2031	2036	9.50	40	9.77
10	Reach 4	Stockton	Concrete	17166	2032	2032			

10 Reach 4	Stockton	Pre Cast Segment 36' ID x 6' Wide	608434	2031	2039	11.79	40	9.77
10 Reach 5E	Stockton	Pre-Cast 38' ID Segment 6'	86182	2031	2032	1.67	40	9.77
10 Reach 5W	Stockton	Pre-Cast 38' ID Segment 6'	86182	2032	2034	1.67	40	9.77
10 Early Works - Logistics - Road	Stockton	Concrete	52	2026	2026			
10 Early Works - Logistics - Road	Tracy	Concrete	664	2026	2026			
10 Reach 6	Stockton	Pre-Cast 38' ID Segment 6'	18082	2033	2034	1.40	20	2.44

Tunnel Lining Concrete Volumes

ID ft	Lining in	OD ft	Area ft2	Volume cy/ft
20	12	22.0	66.0	2.4
28	14	30.3	106.9	4.0
31	16	33.7	135.4	5.0
36	18	39.0	176.7	6.5
38	20	41.3	207.7	7.7
40	24	44.0	263.9	9.8

Preliminary Estimate of Power Required for Double TBM Launch Shaft Site (7,500 cfs and 6,000 cfs option)			
Equipment Description	EPB TBM OPTION Estimated Power (kVA)	Comments	
TBM and Trailing Gear (EPB)	40,000	Assume same for 36' and 40 ' TBM	
Tunnel Ventilation Fans	7,400		
Water Cooling Plant	500		
Foam Plant	500		
Conveyor (Tunnel)*	4,960		
Conveyor (Surface)	460		
Tunnel Lighting	350		
Shaft Pumps	200		
Compressed Air Plant	1,600		
Main Hoist and Shaft Elevator	70		
Shaft Gantry Crane	400		
Shop Facilities	300		
RTM Dryers	3,420	Assume the same for 36 and 40' dia tunnel	
Water Treatment	200		
Change House	40		
Office Trailers	140		
Yard Lighting	80		
Miscellaneous	500		
Recommendation	62,000 kVA		
Preliminary Estimate of Power Required for Double TBM Launch Shaft Site (4,500 cfs and 3,000 cfs option)			
Equipment Description	EPB TBM OPTION Estimated Power (kVA)	Comments	
TBM and Trailing Gear (EPB)	20,000	Assume same for 31' and 26 ' TBM	
Tunnel Ventilation Fans	7,400		
Water Cooling Plant	500		
Foam Plant	500		
Conveyor (Tunnel)	3,720	(75% of 6000/7500 cfs option)	
Conveyor (Surface)	340	(75% of 6000/7500 cfs option)	
Tunnel Lighting	350		
Shaft Pumps	200		
Compressed Air Plant	1,600		
Main Hoist and Shaft Elevator	70		
Shaft Gantry Crane	400		
Shop Facilities	300		
RTM Dryers	2,660		
Water Treatment	200		
Change House	40		
Office Trailers	140		
Yard Lighting	80		
Miscellaneous	500		
Recommendation	39,000 kVA		

APPENDIX H - Preliminary Operations and Maintenance Information for EIR Air Quality and Traffic Analyses for the Central Corridor

This appendix provides preliminary operations and maintenance information for the Central Corridor related to quantities of equipment and vehicle use and employee travel needs to develop air quality and traffic analyses in the EIR. The information is provided in the following attachments organized by project design capacity option:

- Attachment 1. Project Design Capacity for 6,000 cfs
- Attachment 2. Project Design Capacity for 7,500 cfs
- Attachment 3. Project Design Capacity for 3,000 cfs
- Attachment 4. Project Design Capacity for 4,500 cfs

APPENDIX H – ATTACHMENT 1

Project Design Capacity 6,000 cfs

FINAL DRAFT

This tab summarizes daily O&M activities for Delta Conveyance.

[illegible]

This tab summarizes weekly and bi-weekly O&M activities for Delta Conveyance.

			Occurrence										Employees		Light Duty Trucks		Heavy Duty Trucks				Other Equipment				Generation											
	Site	County	Structure / Equipment	Activity	Frequency	Season	Duration	Number of personnel per day	Round trip miles per day	Activity Days per day	Round trip miles	Type	Activity Days	Round trip miles per day	Round trip miles	Type	Hours per day	Actual Days	Utilization	Operating Hours per day	Miles/Day (Assumed Straight operation)	Excavation (cu yd)	No. of generators	Transformer kV	Engine Size Horsepower	Daily Hours of Operation	Annual Hours of Generation	Responsible Party	Notes	Spare Day Potential						
	Intake 3	SAC	Electrical equipment (general)	Inspection and testing	Weekly	All	4 hrs	2	42																			DWR		X						
	Intake 3	SAC	Office, locker room and restroom	Janitorial service	Weekly	All	4 hrs	2	44																			DWR		X						
	Intake 5	SAC	Electrical equipment (general)	Inspection and testing	Weekly	All	4 hrs	2	44																			DWR		X						
	Intake 5	SAC	Office, locker room and restroom	Janitorial service	Weekly	All	4 hrs	2	44																			DWR		X						
	South Delta Pumping Plant	CC	Surge Tanks	Inspection	Weekly	All	2 hrs	2	14																			DWR		X						
	South Delta Pumping Plant	CC	Sheds and offices	Janitorial service	Weekly	All	4 hrs	2	14																			DWR		X						
	Southern Forebay	CC	Embankments	Observation and measurements	Weekly	All	4 hrs	2	14																			DWR		X						
	Southern Forebay	CC	Embankments	Inspection	Weekly	All	1 day	2	14																			DWR		X						
	Southern Forebay Outlet Structure	CC	Electrical system	Inspection and maintenance	Weekly	All	4 hrs	2	14																			DWR		X						
	South Delta Outlet and Control Structure	CC	Electrical system	Inspection and maintenance	Weekly	All	4 hrs	2	10																			DWR		X						
	Intake 3	SAC	Electrical substation	Test operability	Bi-weekly	All	4 hrs	2	42																			Contractor		X						
	Intake 5	SAC	Electrical substation	Test operability	Bi-weekly	All	4 hrs	2	44																			Contractor		X						
	South Delta Pumping Plant	CC	Electrical substation	Test operability	Bi-weekly	All	4 hrs	2	14																			DWR		X						

Operations and Maintenance Activities (Draft)

Central Corridor 6,000 cfs Project Design Capacity (DWR EIR Alternative 1) - Draft 06/26/2021
This tab summarizes monthly O&M activities for Delta Conveyance.

Site	County	Structure / Equipment	Occurrences				Employees			Light Duty Trucks			Heavy Duty Trucks				Other Equipment					Excavation (ft / Day)	Generators				Responsible Party	Notes	Same Day Potential																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
			Activity	Frequency	Season	Duration	Number per day	Round trip miles per day	Activity days	Round trip miles	Type	Activity days	Round trips per day	Round trip miles	Type	Incinerator	Activity Days	Utilization	Operating Hours per day	Miles/Day (assumed Depth of 200 ft)	No. of generators		Incinerator +	Engine Type	Daily Hours / Generator	Annual Hours / Generator																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Intake 3	Sac	Intake screens	Test operability	Monthly	All	1 day	2	42																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										</

Operations and Maintenance Activities (Draft)

Central Corridor 6,000 cfs Project Design Capacity (DWR EIR Alternative 1) - Draft 06/26/2021
This tab summarizes quarterly O&M activities for Delta Conveyance.

Site	County	Structure / Equipment	Occurrences						Employees		Light Duty Trucks		Heavy Duty Trucks		Other Equipment						Generators					Responsible Party	Notes	Same Day Potential
			Activity	Frequency	Season	Duration	Number per day	Round trip miles per day	Activity Days	Round trip miles per day	Round trip miles	Type	Activity Days	Round trip miles per day	Round trip miles	Type	Hours/week	Activity Days	Utilization	Operating hours per day	Miles/Day (assumed length of haul)	Excavation (cu yd/day)	No. of generators	Engine Size	Daily Hours / Generator			
South Delta Pumping Plant	CC	DX Air Handler (Electrical Building)	General maintenance	Quarterly	All	5 days	2	14																	DWR	Shp. DX Air Handlers, 1 day each	X	
South Delta Pumping Plant	CC	Ventilation Equipment (Generator Building)	General maintenance	Quarterly	All	4 hrs	2	14																	DWR			
South Delta Pumping Plant	CC	HVAC Equipment (Mechanical Storage Building)	General maintenance	Quarterly	All	8 hrs	2	14																	DWR			
South Delta Pumping Plant	CC	HVAC Equipment (Mechanical Storage Building)	Maintenance	Quarterly	All	8 hrs	2	14																	DWR			
Southern Forebay	CC	Embankments	Animal burrow filling	Quarterly	All	2 days	2	14			2	1	14				Rammer compactor	5.5	2	80%	8					DWR	2 laborers	
Southern Forebay	CC	Embankments	Weed management/herbicide application	Quarterly	All	3 days	2	14																	DWR	1 truck driver + 1 herbicide applicator	X	

Central Corridor 6,000 cfs Project Design Capacity (DWR EIR Alternative 1) - Draft 06/29/2021
This tab summarizes bi-annual O&M activities for Delta Conveyance.

[illegible]

Central Corridor 6,000 cfs Project Design Capacity (DWR EIR Alternative 1) - Draft 05/29/2021
This tab summarizes annual O&M activities for Delta Conveyance

Location		Occurrence		Employee		Light Duty Tasks		Heavy Duty Tasks		Other Equipment		Generation		Notes		Remarks		
Site	County	Structure / Equipment	Activity	Frequency	Season	Duration	Hours per day	Round trip per day	Round trip miles	Type	Activity Date	Activity Days	Location	Quantity per day	Min. per day	Max. per day	Remarks	
Issue 1		Sac. Intake screens	Refurbish	Annually	Aug	6 days	1	42		Low loader	0	0	0	Forklift	74	8	20%	2
Issue 2		Sac. Intake screens	Refurbish	Annually	Aug	6 days	1	42		Flat bed truck	0	0	0					
Issue 3		Sac. Intake screens	Refurbish	Annually	Aug	6 days	1	42		Boom truck	0	0	0					
Issue 4		Sac. Intake screens	Disassemble	Annually	Any	2 days	2	42	2	1	50							
Issue 5		Sac. Roller gates	Refurbish - Install isolation gates	Annually	May-Sep	1 day	2	42		Boom truck	0	0	0					
Issue 6		Sac. Roller gates	Refurbish - Install isolation gates	Annually	May-Sep	1 day	2	42		Flat bed truck	0	0	0					
Issue 7		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Boom truck	0	0	0					
Issue 8		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 9		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 10		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 11		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 12		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 13		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 14		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 15		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 16		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 17		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 18		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 19		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 20		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 21		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 22		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 23		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 24		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 25		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 26		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 27		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 28		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 29		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 30		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 31		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 32		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 33		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 34		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 35		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 36		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 37		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 38		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 39		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 40		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 41		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 42		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 43		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 44		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 45		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 46		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 47		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 48		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 49		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 50		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 51		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 52		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 53		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 54		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 55		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 56		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 57		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 58		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 59		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 60		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 61		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 62		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 63		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 64		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 65		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 66		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 67		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 68		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 69		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 70		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 71		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 72		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 73		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 74		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 75		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 76		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 77		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 78		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 79		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 80		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 81		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 82		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 83		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 84		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 85		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 86		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 87		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 88		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 89		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 90		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 91		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 92		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 93		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 94		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 95		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 96		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 97		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 98		Sac. Roller gates	Refurbish - Remove and replace roller gates	Annually	May-Sep	9 days	2	42		Flat bed truck	0	0	0					
Issue 99		Sac. Roller gates	Refurbish - Remove and replace roller gates	Ann														

Central Corridor 6,000 cfs Project Design Capacity (DWR EIR Alternative 1) - Draft 06/29/2021
This tab summarizes long term O&M activities for Delta Conveyance.

Same C
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Southern Forebay	CC	Site roads	Repairing - Compact paving	Every 15 years	Apr-Oct	5.5 days	2	104
Southern Forebay Outlet Structure	CC	Gantry Crane	Reidentification	Every 4 years	Apr-Oct	2 days	4	104
South Delta Outlet and Control Structure	CC	Radial gates	Hoist cable rebalancing	Every 2 years	Apr-Oct	5 days	2	10
South Delta Outlet and Control Structure	CC	Radial gates	Hoist cable and motor replacement	Every 15 years	Apr-Oct	10 days	2	10
South Delta Outlet and Control Structure	CC	Radial gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	210 days	2	108
South Delta Outlet and Control Structure	CC	Radial gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	210 days	1	108
South Delta Outlet and Control Structure	CC	Radial gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	210 days	1	108
South Delta Outlet and Control Structure	CC	Radial gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	210 days	3	108
South Delta Outlet and Control Structure	CC	Structure	Survey	Every 2 years	Apr-Oct	1 day	2	108
Southern Connections	CC	Site roads	Repairing - Plane surface	Every 15 years	Apr-Oct	2.5 days	3	108
Southern Connections	CC	Site roads	Repairing - Haul away from site	Every 15 years	Apr-Oct	2.5 days	1	108
Southern Connections	CC	Site roads	Repairing - Deliver asphalt	Every 15 years	Apr-Oct	2.5 days	1	108
Southern Connections	CC	Site roads	Repairing - Lay paving	Every 15 years	Apr-Oct	2.5 days	3	108
Southern Connections	CC	Site roads	Repairing - Compact paving	Every 15 years	Apr-Oct	2.5 days	2	108
California Aqueduct Control Structure	Ala	Radial gates	Hoist cable rebalancing	Every 3 years	Apr-Oct	3 days	2	10
California Aqueduct Control Structure	Ala	Radial gates	Hoist cable and motor replacement	Every 15 years	Apr-Oct	4 days	2	10
California Aqueduct Control Structure	Ala	Radial gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	126 days	2	108
California Aqueduct Control Structure	Ala	Radial gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	126 days	1	108
California Aqueduct Control Structure	Ala	Radial gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	126 days	1	108
California Aqueduct Control Structure	Ala	Structure	Survey	Every 2 years	Apr-Oct	1 day	2	108

Low loader	2	1	104	Compactor	131	5.5	100%	10
Boom truck	2	1	104	Boom truck	300	3	20%	2
Boom truck	5	1	10	Boom truck	300	5	80%	8
Boom truck	10	1	10	Boom truck	300	10	80%	8
Boom truck	10	1	108	Boom truck	300	10	80%	8
Flat bed truck	10	1	108	Flat bed truck	380	10	80%	8
Low loader	10	1	108	Forklift	74	10	80%	8
Truck mounted crane	10	1	108	Truck mounted crane	175	10	80%	8
Low loader	2	1	104	Placer	801	2.5	100%	10
Haul truck	2.5	77	54					
Asphalt delivery truck	2.5	77	104					
Low loader	2	1	104	Paver	225	2.5	100%	10
Low loader	2	1	104	Compactor	131	2.5	100%	10
Boom truck	3	1	10	Boom truck	300	3	50%	5
Boom truck	6	1	10	Boom truck	300	4	50%	5
Boom truck	6	1	108	Boom truck	300	6	80%	8
Flat bed truck	6	1	108	Flat bed truck	380	6	80%	8
Low loader	6	1	108	Forklift	74	6	80%	8
Truck mounted crane	6	1	108	Truck mounted crane	175	6	80%	8

Contractor	Per CA OSHA		
DWR	10 radial gates, assume 1/2 day / gate		
DWR	10 radial gates, assume 1 day / gate		X
Contractor	10 radial gates x 1mth (21 days) / gate. Install and remove bulkheads.		X
Contractor	10 radial gates x 1mth (21 days) / gate. Install and remove bulkheads.		X
Contractor	10 radial gates x 1mth (21 days) / gate. Install and remove bulkheads.		X
Contractor	10 radial gates x 1mth (21 days) / gate. Assume 1 day / gate to swap-out		X
Contractor	1,006 LF		
Contractor	1,779 yd3, 3,483 tons @ 18 tons/truck		
Contractor	1,779 yd3, 3,483 tons @ 18 tons/truck		
Contractor			
DWR	6 radial gates, assume 1/2 day / gate		
DWR	6 radial gates, assume 1 day / gate		
Contractor	6 radial gates x 1mth (21 days) / gate. Install and remove bulkheads.		
Contractor	6 radial gates x 1mth (21 days) / gate. Install and remove bulkheads.		
Contractor	6 radial gates x 1mth (21 days) / gate. Install and remove bulkheads.		
Contractor	6 radial gates x 1mth (21 days) / gate. Assume 1 day / gate to swap out		

APPENDIX H – ATTACHMENT 2

Project Design Capacity 7,500 cfs

FINAL DRAFT

Operations and Maintenance Activities (Draft)

Central Corridor 7,500 cfs Project Design Capacity (DWR EIR Alternative 2a) - Draft 06/29/2021

This tab summarizes daily O&M activities for Delta Conveyance.

				Occurrences				Employees		Light Duty Trucks		Heavy Duty Trucks				Other Equipment							Generators				Responsible Party	Notes	
Site	County	Structure / Equipment	Activity	Frequency	Season	Duration	Number per day	Round trip miles per day	Activity days	Round trip miles per day	Round trip miles	Type	Activity days	Round trips per day	Round trip miles	Type	Incinerator	Activity Days	Utilization	Operating hours per day	Miles/Day Inspected (Length x Trucks)	Excavation (C/y / Day)	No. of generators	Interconnect	Engine Type	Daily Hours / Generator			Annual Hours / Generator
Intake 2	Sac	Whole site	Inspection / security check	Daily	All	4 hrs	2	40																				DWR	
Intake 3	Sac	Whole site	Inspection / security check	Daily	All	4 hrs	2	42																				DWR	
Intake 5	Sac	Whole site	Inspection / security check	Daily	All	4 hrs	2	44																				DWR	
Twin Cities Launch Shaft	Sac	Whole site	Inspection / security check	Daily	All	1 hr	2	64																				DWR	
New Hope Maintenance Shaft (Central)	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	76																				DWR	
Station Island Maintenance Shaft	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	82																				DWR	
Boulder Island Launch and Reception Shaft	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	112																				DWR	
Mantleville Island Maintenance Shaft	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	70																				DWR	
Bacon Island Reception Shaft	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	64																				DWR	
Byron Tract Maintenance Shaft	CC	Whole site	Inspection / security check	Daily	All	1 hr	2	26																				DWR	
Southern Forebay Launch Shaft (North)	CC	Whole site	Inspection / security check	Daily	All	1 hr	2	28																				DWR	
Southern Forebay Launch Shaft (South)	CC	Whole site	Inspection / security check	Daily	All	1 hr	2	14																				DWR	
CA Aqueduct Reception Shaft	CC	Whole site	Inspection / security check	Daily	All	1 hr	2	10																				DWR	
South Delta Pumping Plant	CC	Whole site	Inspection / security check	Daily	All	2 hrs	2	14																				DWR	
Southern Forebay	CC	Whole site	Inspection / security check	Daily	All	2 hrs	2	14																				DWR	
South Delta Outlet and Control Structure	CC	Whole site	Inspection / security check	Daily	All	1 hr	2	10																				DWR	
Delta Mendota Canal Control Structure	Ala	Whole site	Inspection / security check	Daily	All	1 hr	2	6																				DWR	
Sacramento Control Centre	Sac	Whole system	Operations oversight	Daily	All	1 day	3	10																				DWR	3 x 8hr shifts in 24hrs
Delta Field Division Control Centre	Ala	Whole system	Operations oversight	Daily	All	1 day	3	10																				DWR	3 x 8hr shifts in 24hrs

This tab summarizes weekly and bi-weekly O&M activities for Delta Conveyance.

[illegible]

Central Corridor 7,500 cfs Project Design Capacity (DWR EIR Alternative 2a) - Draft 06/29/2021
This tab summarizes monthly O&M activities for Delta Conveyance.

			Occurrence				Employees				Light Duty Trucks				Heavy Duty Trucks				Other Equipment				Generators				Responsible Party		
Site	County	Structure / Equipment	Activity	Frequency	Season	Duration	Number per day	Start time min per day	Activity Date	Start trip per day	Round trip miles	Type	Activity Date	Round trip miles	Round trip miles	Type	Hours per day	Activity Date	Utilization	Quoting hours per day	Mile/Day (assumed 2000 mph)	Excavation (cu / day)	No. of Generators	Hours / Generator	Actual Hours / Generator	Notes			
Intake 2	Sac	Intake screens	Test operability	Monthly	All	0.5 days	2	40															2	50	4	1	6	DWR	+2 generators tested for 1/2hr each every month. Tier assumed.
Intake 2	Sac	Standby generators	Test operability	Monthly	All	1 hr	2	40																			DWR		
Intake 3	Sac	Intake screens	Test operability	Monthly	All	1 day	2	42															2	50	4	1	6	DWR	+2 generators tested for 1/2hr each every month. Tier assumed.
Intake 3	Sac	Standby generators	Test operability	Monthly	All	1 hr	2	42																			DWR		
Intake 5	Sac	Intake screens	Test operability	Monthly	All	1 day	2	46																				DWR	+2 generators tested for 1/2hr each every month. Tier assumed.
Intake 5	Sac	Standby generators	Test operability	Monthly	All	1 hr	2	46																2	50	4	1	6	
South Delta Pumping Plant	CC	Medium Voltage Transformers (Electrical Building)	Inspection	Monthly	All	1 day	2	14																				DWR	100% Values, 100% false
South Delta Pumping Plant	CC	Siphon/W Release Valves (Pumping Plant)	Inspection	Monthly	All	1 day	2	14																				DWR	
South Delta Pumping Plant	CC	Electric generator (Generator Building)	General maintenance and testing	Monthly	All	8 hrs	2	14																				DWR	
South Delta Pumping Plant	CC	Check valves	Inspection and maintenance	Monthly	All	1 day	2	14																				DWR	
Southern Forebay	CC	Emergency Outlet	Test operability	Monthly	All	2 hrs	2	14																				Contractor	Assumed hp and runtime. Tier assumed.
Southern Forebay	CC	Emergency Outlet Standby Generators	Test operability	Monthly	All	1 hr	2	104															1	50	4	1	12	Contractor	
Southern Forebay Outlet Structure	CC	Trash racks	Cleaning	Monthly	All	1 day	2	14																				Contractor	Assumed hp and runtime. Tier assumed.
South Delta Outlet and Control Structure	CC	Generator	Test operability and inspection	Monthly	All	1 hr	2	88															1	50	4	1	12	Contractor	
Delta Mendota Canal Control Structure	Ala	Generator	Test operability and inspection	Monthly	All	1 day	2	54																1	50	4	1	12	Contractor

Operations and Maintenance Activities (Draft)
Central Corridor 7,500 cfs Project Design Capacity (DWR EIR Alternative 2a) - Draft 06/29/2021
This tab summarizes quarterly O&M activities for Delta Conveyance.

			Occurrences										Other Equipment										Generators					Notes
Site	County	Structure / Equipment	Activity	Frequency	Season	Duration	Number per day	Round trip miles per day	Activity days	Round trip miles per day	Round trip miles	Type	Activity days	Round trip miles per day	Round trip miles	Type	Hours per week	Activity Days	Utilization	Operating Hours per day	Miles/day (assumed length of haul)	Excavation (CY / day)	No. of generators	Hours per generator	Daily Hours / Generator	Annual Hours / Generator	Responsible Party	
South Delta Pumping Plant	CC	DX Air Handler (Electrical Building)	General maintenance	Quarterly	All	5 days	2	14																		DWR	2 Nos. DX Air Handlers, x1 day each	
South Delta Pumping Plant	CC	Ventilation Equipment (Generator Building)	General maintenance	Quarterly	All	4 hrs	2	14																		DWR		
South Delta Pumping Plant	CC	HVAC Equipment (Mechanical Storage Building)	General maintenance	Quarterly	All	8 hrs	2	14																		DWR		
South Delta Pumping Plant	CC	HVAC Equipment (Mechanical Storage Building)	Maintenance	Quarterly	All	8 hrs	2	14																		DWR		
Southern Forebay	CC	Embankments	Animal burrow filling	Quarterly	All	2 days	2	14	2	1	14						Rammer compactor	5.5	2	80%	8					DWR	2 laborers	
Southern Forebay	CC	Embankments	Weed management/ herbicide application	Quarterly	All	3 days	2	14																		DWR	1 truck driver + 1 herbicide applicator	

This tab summarizes bi-annual O&M activities for Delta Conveyance.

7.5 days = 150k screens at 2/day, 1 boom operator + 1 other
7.5 days = 150k screens at 2/day, 1 pickup truck driver/pressure washer operator + 1 other
3 gates/screens, 8ft tall, 10/1m to raise, 45mins/gate + 3hr mob + 3hr demob = 10 gates/day, 4.5 days = 45 gates at 10 gates/day

15days = 30k screens at 2/day, 1 boom operator + 1 other
15days = 30k screens at 2/day, 1 pickup truck driver/pressure washer operator + 1 other
3 gates/screens, 8ft tall, 10/1m to raise, 45mins/gate + 3hr mob + 3hr demob = 10 gates/day, 9 days = 90 gates at 10 gates/day

15days = 30k screens at 2/day, 1 boom operator + 1 other
15days = 30k screens at 2/day, 1 pickup truck driver/pressure washer operator + 1 other
3 gates/screens, 8ft tall, 10/1m to raise, 45mins/gate + 3hr mob + 3hr demob = 10 gates/day, 9 days = 90 gates at 10 gates/day

2kcs Vacuum generator systems, x2 per day

1 boat pilot = 1 equipment operator

This tab summarizes annual O&M activities for Delta Conveyance.

[illegible]

[illegible]

This tab summarizes long term O&M activities for Delta Conveyance.

[illegible]

APPENDIX H – ATTACHMENT 3

Project Design Capacity 3,000 cfs

FINAL DRAFT

Operations and Maintenance Activities (Draft)

Central Corridor 3,000 cfs Project Design Capacity (DWR EIR Alternative 2b) - Draft 06/29/2021
This tab summarizes daily O&M activities for Delta Conveyance.

			Occurrences										Employees			Light Duty Trucks			Heavy Duty Trucks				Other Equipment						Generators					
Site	County	Structure / Equipment	Activity	Frequency	Season	Duration	Number per day	Round trip miles per day	Activity days	Round trip per day	Round trip miles	Type	Activity days	Round trips per day	Round trip miles	Type	Incinerator	Activity Days	Utilization	Operating hours per day	Miles/Day (assumed length of haul)	Excavation (\$ / day)	No. of generators	Management	Engine Size	Daily Hours / Generator	Annual Hours / Generator	Responsible Party	Notes					
Wika 5	Sac	Whole site	Inspection / security check	Daily	All	4 hrs	2	44																				DWR						
Twin Cities Launch Shaft	Sac	Whole site	Inspection / security check	Daily	All	1 hr	2	64																				DWR						
New Hope Maintenance Shaft (Central)	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	76																				DWR						
Statens Island Maintenance Shaft	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	82																				DWR						
Boulder Island Launch and Reception Shaft	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	112																				DWR						
Mammoth Island Maintenance Shaft	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	70																				DWR						
Bacon Island Reception Shaft	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	64																				DWR						
Byron Tract Maintenance Shaft	CC	Whole site	Inspection / security check	Daily	All	1 hr	2	26																				DWR						
Southern Forebay Launch Shaft (North)	CC	Whole site	Inspection / security check	Daily	All	1 hr	2	28																				DWR						
Southern Forebay Launch Shaft (South)	CC	Whole site	Inspection / security check	Daily	All	1 hr	2	14																				DWR						
CA Aqueduct Reception Shaft	CC	Whole site	Inspection / security check	Daily	All	1 hr	2	10																				DWR						
South Delta Pumping Plant	CC	Whole site	Inspection / security check	Daily	All	2 hrs	2	14																				DWR	Including electrical substation					
Southern Forebay	CC	Whole site	Inspection / security check	Daily	All	2 hrs	2	14																				DWR						
South Delta Outlet and Control Structure	CC	Whole site	Inspection / security check	Daily	All	1 hr	2	10																				DWR						
Sacramento Control Centre	Sac	Whole system	Operations oversight	Daily	All	1 day	3	10																				DWR	3 x 8hr shifts in 24hrs					
Delta Field Division Control Centre	Ala	Whole system	Operations oversight	Daily	All	1 day	3	30																				DWR	3 x 8hr shifts in 24hrs					

Operations and Maintenance Activities (Draft)

Central Corridor 3,000 cfs Project Design Capacity (DWR EIR Alternative 2b) - Draft 06/29/2021
This tab summarizes weekly and bi-weekly O&M activities for Delta Conveyance.

			Occurrences										Other Equipment										Generators				Notes
Site	County	Structure / Equipment	Activity	Frequency	Season	Duration	Number per day	Round trip miles per day	Activity days	Round trip miles	Type	Activity days	Round trips per day	Round trip miles	Type	How many times per day	Activity Days	Utilization	Operating hours per day	Miles/Day (assumed length of haul)	Excavation (CY / DAY)	No. of generators	Engine Type	Daily Hours / Generator	Annual Hours / Generator	Responsible Party	
Intake S	Sac	Electrical equipment (general)	Inspection and testing	Weekly	All	4 hrs	2	44																		DWR	
Intake S	Sac	Office, locker room and restroom	Janitorial service	Weekly	All	4 hrs	2	44																		DWR	
South Delta Pumping Plant	CC	Surge Tanks	Inspection	Weekly	All	2 hrs	2	14																		DWR	
South Delta Pumping Plant	CC	Shops and offices	Janitorial service	Weekly	All	4 hrs	2	14																		DWR	
Southern Forebay	CC	Embankments	Observation well measurements	Weekly	All	4 hrs	2	14																		DWR	
Southern Forebay	CC	Embankments	Inspection	Weekly	All	1 day	2	14																		DWR	
Southern Forebay Outlet Structure	CC	Electrical system	Inspection and maintenance	Weekly	All	4 hrs	2	14																		DWR	
South Delta Outlet and Control Structure	CC	Electrical system	Inspection and maintenance	Weekly	All	4 hrs	2	30																		DWR	
Intake S	Sac	Electrical substation	Test operability	Bi-weekly	All	4 hrs	2	44																		Contractor	
South Delta Pumping Plant	CC	Electrical substation	Test operability	Bi-weekly	All	4 hrs	2	14																		DWR	

Central Corridor 3,000 cfs Project Design Capacity (DWR EIR Alternative 2b) - Draft 06/29/2021
This tab summarizes monthly O&M activities for Delta Conveyance.

					Occurrence		Employees		Light Duty Trucks		Heavy Duty Trucks		Other Equipment				Generators						Responsible Parties							
Site	County	Structure / Equipment	Activity	Frequency	Season	Duration	Number per day	Record this miles per day	Actual days	Record this per day	Record this miles	Type	Actual days	Record this per day	Record this miles	Type	Prepwork	Actual Days	Utilization	Operating hours per day	Mileage (Assumed) (miles)	Excavation (cu / day)	No. of generators	Hours / generator	Annual Hours / generator	Notes				
Intake 5	Sac	Intake screens	Test operability	Monthly	All	1 day	2	44																						
Intake 5	Sac	Standby generators	Test operability	Monthly	All	1 hr	2	14															2	50	4	1	6	DWR DWR	x2 generators tested for 1/2hr each every month. Tier assumed.	
South Delta Pumping Plant	CC	Medium Voltage Transformers (Electrical Building)	Inspection	Monthly	All	1 day	2	14																						
South Delta Pumping Plant	CC	Siphon/Air Release Valves (Pumping Plant)	Inspection	Monthly	All	1 day	2	14																						
South Delta Pumping Plant	CC	Electric generator (Generator Building)	General maintenance and testing	Monthly	All	8 hrs	2	14																						
South Delta Pumping Plant	CC	Check valves	Inspection and maintenance	Monthly	All	1 day	2	14																						
Southern Forebay	CC	Emergency Outlet	Test operability	Monthly	All	2 hrs	2	14																						
Southern Forebay	CC	Emergency Outlet Standby Generators	Test operability	Monthly	All	1 hr	2	104																						
Southern Forebay Outlet Control Structure	CC	Truck racks	Cleaning	Monthly	All	1 day	2	14																						
South Delta Outlet and Control Structure	CC	Generator	Test operability and inspection	Monthly	All	1 hr	2	104				Line loader	1	1	14	Backhoe	68	1	80%				1	50	4	1	12	Contractor	Assumed hp and runtime. Tier assumed.	
																							1	50	4	1	12	Contractor	Assumed hp and runtime. Tier assumed.	

Operations and Maintenance Activities (Draft)
Central Corridor 3,000 cfs Project Design Capacity (DWR EIR Alternative 2b) - Draft 06/29/2021
This tab summarizes quarterly O&M activities for Delta Conveyance.

			Occurrences										Employees				Light Duty Trucks				Heavy Duty Trucks				Other Equipment										Generators					Responsible Party	Notes
Site	County	Structure / Equipment	Activity	Frequency	Season	Duration	Number per day	Round trip miles per day	Activity days	Round trip miles per day	Round trip miles	Type	Activity days	Round trip miles per day	Round trip miles	Type	Hours per week	Activity Days	Utilization	Operating Hours per day	Miles/Day (assumed Depth)	Excavation (CY / Day)	No. of generators	Hours per generator	Engine Size	Daily Hours / Generator	Annual Hours / Generator														
South Delta Pumping Plant	CC	DX Air Handler (Electrical Building)	General maintenance	Quarterly	All	5 days	2	14																				DWR	2 Nos. DX Air Handlers, x1 day each												
South Delta Pumping Plant	CC	Ventilation Equipment (Generator Building)	General maintenance	Quarterly	All	4 hrs	2	14																				DWR													
South Delta Pumping Plant	CC	HVAC Equipment (Mechanical Storage Building)	General maintenance	Quarterly	All	8 hrs	2	14																				DWR													
South Delta Pumping Plant	CC	HVAC Equipment (Mechanical Storage Building)	Maintenance	Quarterly	All	8 hrs	2	14																				DWR													
Southern Forebay	CC	Embankments	Animal burrow filling	Quarterly	All	2 days	2	14	2	1	14						Rammer compactor	5.5	2	80%	8							DWR	2 laborers 1 truck driver + 1 herbicide applicator												
Southern Forebay	CC	Embankments	Weed management/ herbicide application	Quarterly	All	3 days	2	14																				DWR													

Operations and Maintenance Activities (Draft)

Central Corridor 3,000 cb Project Design Capacity (DWR EIR Alternative 2b) - Draft 06/26/2021

This table summarizes Bi-annual O&M activities for Delta Conveyance.

			Occurrences										Light Duty Tools				Heavy Duty Tools				Other Equipment				Generators					Responsible Party	Notes
Site	County	Structure / Equipment	Activity	Frequency	Season	Duration	Number per day	Estimated miles per day	Activity days	Hours per day	Hours per mile	Type	Activity days	Hours per day	Hours per mile	Type	Hours per day	Activity days	Utilization	Operating hours per day	Minutes per hour	Estimated hrs per day	No. of generators	Hours per generator	Engine Test	Daily Hours / Generator	Annual Hours / Generator				
Intake 5	Sac	Intake screens	Pressure wash	Bi-annually	Apr/Oct	15 days	2	44				Boom truck	2	0.5	4	Boom truck	300	15	80%	8						DWR	15days = 30No. screens at 2/day. 1 boom operator +1 other				
Intake 5	Sac	Intake screens	Pressure wash	Bi-annually	Apr/Oct	15 days	2	44	2	1	56					Pressure washer	14	15	50%	5						DWR	15days = 30No. screens at 2/day. 1 pickup truck driver/pressure washer operator +1 other				
Intake 5	Sac	Raker gates	Test operability	Bi-annually	Any	9 days	2	44																		DWR					
Intake 5	Sac	Whole site	Ground maintenance	Bi-annually	Apr/Oct	5 days	1	44	2	1	56					Mower	26	5	80%	8						DWR					
Intake 5	Sac	Whole site	Ground maintenance	Bi-annually	Apr/Oct	5 days	1	44	2	1	56					Pressure washer	14	5	80%	8						DWR					
Twain Cities Launch Shaft	Sac	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	64	2	1	64					Mower	26	2	80%	8						DWR					
Twain Cities Launch Shaft	Sac	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	64	2	1	64					Pressure washer	14	2	80%	8						DWR					
Twain Cities Launch Shaft	Sac	RTM Stockpile	Ground maintenance	Bi-annually	Apr/Oct	5 days	2	64	2	1	64					Mower	26	5	80%	8						DWR					
Twain Cities Launch Shaft (Central)	SI	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	76	2	1	76					Mower	26	2	80%	8						DWR					
New Hope Maintenance Shaft (Central)	SI	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	76	2	1	76					Pressure washer	14	2	80%	8						DWR					
Station Island Maintenance Shaft	SI	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	82	2	1	82					Mower	26	2	80%	8						DWR					
Station Island Maintenance Shaft	SI	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	82	2	1	82					Pressure washer	14	2	80%	8						DWR					
Bouldin Island Launch and Reception Shaft	SI	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	112	2	1	112					Mower	26	2	80%	8						DWR					
Bouldin Island Launch and Reception Shaft	SI	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	112	2	1	112					Pressure washer	14	2	80%	8						DWR					
Bouldin Island Launch and Reception Shaft	SI	RTM Stockpile	Ground maintenance	Bi-annually	Apr/Oct	5 days	2	112	2	1	112					Mower	26	5	80%	8						DWR					
Mandeville Island Maintenance Shaft	SI	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	70	2	1	70					Mower	26	2	80%	8						DWR					
Mandeville Island Maintenance Shaft	SI	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	70	2	1	70					Pressure washer	14	2	80%	8						DWR					
Bacon Island Reception Shaft	SI	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	64	2	1	64					Mower	26	2	80%	8						DWR					
Bacon Island Reception Shaft	SI	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	64	2	1	64					Pressure washer	14	2	80%	8						DWR					
Byron Tract Maintenance Shaft	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	26	2	1	26					Mower	26	2	80%	8						DWR					
Byron Tract Maintenance Shaft	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	26	2	1	26					Pressure washer	14	2	80%	8						DWR					
Southern Forebay Launch Shaft (North)	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	28	2	1	28					Mower	26	2	80%	8						DWR					
Southern Forebay Launch Shaft (North)	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	28	2	1	28					Pressure washer	14	2	80%	8						DWR					
Southern Forebay Launch Shaft (South)	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14					Mower	26	2	80%	8						DWR					
Southern Forebay Launch Shaft (South)	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14					Pressure washer	14	2	80%	8						DWR					
CA Aqueduct Reception Shaft	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	10	2	1	10					Mower	26	2	80%	8						DWR					
CA Aqueduct Reception Shaft	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	10	2	1	10					Pressure washer	14	2	80%	8						DWR					
South Delta Pumping Plant	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14					Mower	26	5	80%	8						DWR					
South Delta Pumping Plant	CC	Wingwall site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14					Pressure washer	14	2	80%	8						DWR					
South Delta Pumping Plant	CC	Irrigation system	General maintenance	Bi-annually	Apr/Oct	8 hrs	2	14																		DWR					
South Delta Pumping Plant	CC	Vacuum generator system (Pumping Plant Building)	General maintenance	Bi-annually	Any	1 day	2	14																		DWR					
South Delta Pumping Plant	CC	Ventilation Equipment (Pumping Plant Building)	General maintenance	Bi-annually	Oct-Mar	8 hrs	2	14																		DWR	2No. Vacuum generator systems, x2 per day				
South Delta Pumping Plant	CC	Discharge Basin in Forebay (Pumping Plant Building)	Debris removal	Bi-annually	Apr/Oct	1 day	2	14																		DWR					
South Delta Pumping Plant	CC	HVAC Equipment (Pumping Plant Building)	General maintenance	Bi-annually	May/Nov	24 hrs	2	14																		DWR					
Southern Forebay	CC	Embankments	Ground maintenance	Bi-annually	Apr/Oct	5 days	1	14	2	1	14					Mower	26	5	80%	8						DWR					
Southern Forebay	CC	Embankments	Ground maintenance	Bi-annually	Apr/Oct	5 days	1	14	2	1	14					Pressure washer	14	5	80%	8						DWR					
Southern Forebay	CC	Embankments/Spillway	Tow drain cleanout	Bi-annually	Apr/Oct	2 days	2	14	2	1	14					Pressure washer	14	2	80%	8						DWR					
Southern Forebay	CC	Repairs	Small debris removal	Bi-annually	Apr/Oct	3 days	2	14	2	1	14					Leaf	150	3	50%	5						DWR	1 boat pilot + 1 equipment operator				
Southern Forebay	CC	Spillway	Debris/sediment removal	Bi-annually	Apr/Oct	2 days	3	14																		DWR					
South Delta Outfall and Control Structure	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	10	2	1	10					Mower	26	2	80%	8						DWR					
South Delta Outfall and Control Structure	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	10	2	1	10					Pressure washer	14	2	80%	8						DWR					

This tab summarizes annual O&M activities for Delta Conveyance.

[illegible]

This tab summarizes long term O&M activities for Delta Conveyance.

		Discipline		Employee		Light Duty Trade		Heavy Duty Trade		Other Equipment		Comments		Responsible Person										
	Site	County	Structure / Equipment	Activity	Frequency	Season	Duration	Number per mile per day	Activity	Round trip days	Round trip miles	Type	Activity	Round trip days	Round trip miles	Type	Roundtrip per day	Mile/day (assumed)	Excursion (hrs/day)	No. of personnel	Engine #	Daily hours (assumed)	Annual hours / generator	Responsible Person
Intake 5	Sac	Sac	Sealing and casting	Sealing and casting	Every 2 years	Apr-Oct	40 hrs	4	56															Contractor
Intake 5	Sac	Sac	Stripping	Stripping	Sac	Apr-Oct	16 hrs	4	56															Contractor
Intake 5	Sac	Sac	Clearing/Cleaning	Clearing/Cleaning	Every 5 years	Apr-Oct	8 hrs	2	56															Contractor
Intake 5	Sac	Sac	Specialist testing	Specialist testing	Every 4 years	Apr-Oct	1 day	2	56															Contractor
Intake 5	Sac	Sac	Host cable rehabilitating	Host cable rehabilitating	Every 4 years	Apr-Oct	2 days	4	56															Contractor
Intake 5	Sac	Sac	Radial gages	Radial gages	Every 2 years	Apr-Oct	2 days	2	56															Contractor
Intake 5	Sac	Sac	Radial gages	Radial gages	Every 15 years	Apr-Oct	84 days	2	56															Contractor
Intake 5	Sac	Sac	Radial gages	Radial gages	Every 30 years	Apr-Oct	84 days	2	56															Contractor
Intake 5	Sac	Sac	Radial gages	Radial gages	Every 30 years	Apr-Oct	84 days	3	56															Contractor
Intake 5	Sac	Sac	Radial gages	Radial gages	Every 30 years	Apr-Oct	84 days	3	56															Contractor
Intake 5	Sac	Sac	Radial gages	Radial gages	Every 30 years	Apr-Oct	84 days	3	56															Contractor
Intake 5	Sac	Sac	Radial gages	Radial gages	Every 30 years	Apr-Oct	84 days	3	56															Contractor
Intake 5	Sac	Sac	Radial gages	Radial gages	Every 30 years	Apr-Oct	84 days	3	56															Contractor
Intake 5	Sac	Sac	Radial gages	Radial gages	Every 30 years	Apr-Oct	84 days	3	56															Contractor
Intake 5	Sac	Sac	Radial gages	Radial gages	Every 30 years	Apr-Oct	84 days	3	56															Contractor
Intake 5	Sac	Sac	Radial gages	Radial gages	Every 30 years	Apr-Oct	84 days	3	56															Contractor
Intake 5	Sac	Sac	Radial gages	Radial gages	Every 30 years	Apr-Oct	84 days	3	56															Contractor
Intake 5	Sac	Sac	Radial gages	Radial gages	Every 30 years	Apr-Oct	84 days	3	56															Contractor
Intake 5	Sac	Sac	Radial gages	Radial gages	Every 30 years	Apr-Oct	84 days	3	56															Contractor
Intake 5	Sac	Sac	Radial gages	Radial gages	Every 30 years	Apr-Oct	84 days	3	56															Contractor
Intake 5	Sac	Sac	Radial gages	Radial gages	Every 30 years	Apr-Oct	84 days	3	56															Contractor
Intake 5	Sac	Sac	Radial gages	Radial gages	Every 30 years	Apr-Oct	84 days	3	56															Contractor
Intake 5	Sac	Sac	Radial gages	Radial gages	Every 30 years	Apr-Oct	84 days	3	56															Contractor
Intake 5	Sac	Sac	Radial gages	Radial gages	Every 30 years	Apr-Oct	84 days	3	56															Contractor
Intake 5	Sac	Sac	Radial gages	Radial gages	Every 30 years	Apr-Oct	84 days	3	56															Contractor
Intake 5	Sac	Sac	Radial gages	Radial gages	Every 30 years	Apr-Oct	84 days	3	56															Contractor
Intake 5	Sac	Sac	Radial gages	Radial gages	Every 30 years	Apr-Oct	84 days	3	56															

California Aqueduct Control Structure	Ala	Radial gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	126 days	2	108
California Aqueduct Control Structure	Ala	Radial gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	126 days	1	108
California Aqueduct Control Structure	Ala	Radial gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	126 days	1	108
California Aqueduct Control Structure	Ala	Radial gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	126 days	3	108
California Aqueduct Control Structure	Ala	Structure	Survey	Every 2 years	Apr-Oct	1 day	2	108

Boom truck	6	1	108	Boom truck	300	6	80%	8
Flat bed truck	6	1	108	Flat bed truck	380	6	80%	8
Low loader	6	1	108	Forklift	74	6	80%	8
Truck mounted crane	6	1	108	Truck mounted crane	175	6	80%	8

Contractor	6 radial gates x 1mth (21 days) / gate. Install and remove bulkheads.
Contractor	6 radial gates x 1mth (21 days) / gate. Install and remove bulkheads.
Contractor	6 radial gates x 1mth (21 days) / gate. Install and remove bulkheads.
Contractor	6 radial gates x 1mth (21 days) / gate. Assume 1 day / gate to swap out

APPENDIX H – ATTACHMENT 4

Project Design Capacity 4,500 cfs

FINAL DRAFT

Operations and Maintenance Activities (Draft)

Central Corridor 4,500 cfs Project Design Capacity (DWR EIR Alternative 2c) - Draft 06/28/2021
This tab summarizes daily O&M activities for Delta Conveyance.

			Occurrences		Employees		Light Duty Trucks		Heavy Duty Trucks				Other Equipment						Generators								
Site	County	Structure / Equipment	Activity	Frequency	Season	Duration	Number per day	Round trip miles per day	Activity days	Round trip miles	Type	Activity days	Round trip per day	Round trip miles	Type	Hours per day	Activity Days	Utilization	Operating hours per day	Miles/Day (assumed length of trip)	Excavation (cu yds)	No. of generators	Engine Type	Daily Hours / Generator	Annual Hours / Generator	Responsible Party	Notes
Intake 3	Sac	Whole site	Inspection / security check	Daily	All	4 hrs	2	40																	DWR		
Intake 5	Sac	Whole site	Inspection / security check	Daily	All	4 hrs	2	44																	DWR		
Twin Cities Launch Shaft	Sac	Whole site	Inspection / security check	Daily	All	1 hr	2	64																	DWR		
New Hope Maintenance Shaft (Central)	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	76																	DWR		
Station Island Maintenance Shaft	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	82																	DWR		
Reedville Island Launch and Reception Shaft	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	113																	DWR		
Mandeville Island Maintenance Shaft	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	70																	DWR		
Bacon Island Reception Shaft	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	64																	DWR		
Bayan Tract Maintenance Shaft	CC	Whole site	Inspection / security check	Daily	All	1 hr	2	26																	DWR		
Southern Forebay Launch Shaft (North)	CC	Whole site	Inspection / security check	Daily	All	1 hr	2	28																	DWR		
Southern Forebay Launch Shaft (South)	CC	Whole site	Inspection / security check	Daily	All	1 hr	2	14																	DWR		
CA Aqueduct Reception Shaft	CC	Whole site	Inspection / security check	Daily	All	1 hr	2	10																	DWR		
South Delta Pumping Plant	CC	Whole site	Inspection / security check	Daily	All	2 hrs	2	14																	DWR	Including electrical substation	
Southern Forebay	CC	Whole site	Inspection / security check	Daily	All	2 hrs	2	14																	DWR		
South Delta Outlet and Control Structure	CC	Whole site	Inspection / security check	Daily	All	1 hr	2	10																	DWR		
Sacramento Control Centre	Sac	Whole system	Operations overnight	Daily	All	1 day	1	10																	DWR	2 x 8hr shifts in 24hrs	
Delta Field Division Control Centre	Ala	Whole system	Operations overnight	Daily	All	1 day	1	10																	DWR	2 x 8hr shifts in 24hrs	

This tab summarizes weekly and bi-weekly O&M activities for Delta Conveyance.

[illegible]

Operations and Maintenance Activities (Draft)

Central Corridor 4,500 cfs Project Design Capacity (DWR EIR Alternative 2c) - Draft 06/28/2021
This tab summarizes monthly O&M activities for Delta Conveyance.

Site	County	Structure / Equipment	Occurrence				Employees		Light Duty Trucks		Heavy Duty Trucks				Other Equipment						Excavator (CY / Day)	No. of generators	Horsepower +	Engine Type	Daily Hours / Generator	Annual Hours / Generator	Responsible Party	Notes	
			Activity	Frequency	Season	Duration	Number per day	Round trip miles per day	Activity days	Round trip per day	Round trip miles	Type	Activity days	Round trip per day	Round trip miles	Type	Inc response	Activity Days	Utilization	Operating hours per day									Miles/day (assumed length of haul)
Intake 3	Sac	Intake screens	Test operability	Monthly	All	1 day	2	40																				DWR	
Intake 3	Sac	Standby generators	Test operability	Monthly	All	1 hr	2	40															2	50	4	1	6	DWR	x2 generators tested for 1/2hr each every month. Tier assumed.
Intake 5	Sac	Intake screens	Test operability	Monthly	All	0.5 days	2	44																				DWR	
Intake 5	Sac	Standby generators	Test operability	Monthly	All	1 hr	2	44															2	50	4	1	6	DWR	x2 generators tested for 1/2hr each every month. Tier assumed.
South Delta Pumping Plant	CC	Medium Voltage Transformers (Electrical Building)	Inspection	Monthly	All	1 day	2	14																				DWR	
South Delta Pumping Plant	CC	Siphon/In Release valves (Pumping Plant)	Inspection	Monthly	All	1 day	2	14																				DWR	
South Delta Pumping Plant	CC	Electric generator (Generator Building)	General maintenance and testing	Monthly	All	8 hrs	2	14																				DWR	
South Delta Pumping Plant	CC	Check valves	Inspection and maintenance	Monthly	All	1 day	2	14																				DWR	
Southern Forebay	CC	Emergency Outlet	Test operability	Monthly	All	2 hrs	2	14																				DWR	
Southern Forebay	CC	Emergency Outlet Standby Generators	Test operability	Monthly	All	1 hr	2	104															1	50	4	1	12	Contractor	Assumed hp and runtime. Tier assumed.
Southern Forebay Outlet Structure	CC	Trash racks	Cleaning	Monthly	All	1 day	2	14																				DWR	
South Delta Outlet and Control Structure	CC	Generator	Test operability and inspection	Monthly	All	1 hr	2	108															1	50	4	1	12	Contractor	Assumed hp and runtime. Tier assumed.

Operations and Maintenance Activities (Draft)
Central Corridor 4,500 cfs Project Design Capacity (DWR EIR Alternative 2c) - Draft 06/29/2021
This tab summarizes quarterly O&M activities for Delta Conveyance.

			Occurrences																									
			Employees					Light Duty Trucks				Heavy Duty Trucks				Other Equipment												
Site	County	Structure / Equipment	Activity	Frequency	Season	Duration	Round trip miles per day		Activity days	Round trip miles per day	Type	Activity days	Round trip miles per day		Round trip miles	Type	Hours/week	Activity Days	Utilization	Operating hours per day	Miles/Day (assumed length of haul)	Excavator (cu yd)	Generators			Responsible Party	Notes	
							Number per day	Rate					Number per day	Rate									Number per day	Rate	Hours per generator			Engines
South Delta Pumping Plant	CC	DX Air Handler (Electrical Building)	General maintenance	Quarterly	All	5 days	2	14																		Shuo DX Air Handlers, x1 day each		
South Delta Pumping Plant	CC	Ventilation Equipment (Generator Building)	General maintenance	Quarterly	All	4 hrs	2	14																			DWR	
South Delta Pumping Plant	CC	HVAC Equipment (Mechanical Storage Building)	General maintenance	Quarterly	All	8 hrs	2	14																			DWR	
South Delta Pumping Plant	CC	HVAC Equipment (Mechanical Storage Building)	Maintenance	Quarterly	All	8 hrs	2	14																			DWR	
Southern Forebay	CC	Embankments	Animal burrow filling	Quarterly	All	2 days	2	14	2	1	14																2 laborers	
Southern Forebay	CC	Embankments	Weed management/Herbicide application	Quarterly	All	3 days	2	14								Hammer compactor	5.5	2	80%	8					1 truck driver + 1 herbicide applicator	DWR		

Operations and Maintenance Activities (Draft)

Central Corridor & SDO CB Project Design Capacity (DWR EIR Alternative 2c) - Draft 06/29/2021

This table summarizes Bi-annual O&M activities for Delta Conveyance.

Occurrence										Light Duty Tasks										Heavy Duty Tasks										Other Equipment										Generators										Notes
Site	County	Structure / Equipment	Activity	Frequency	Season	Duration	Equipment		Light Duty Tasks		Heavy Duty Tasks		Other Equipment		Generators		Notes																																	
							Number per day	Hours per day	Number per day	Hours per day	Type	Activity	Number per day	Hours per day	Type	Activity		Number per day	Hours per day	Number per day	Hours per day																													
Intake 3	Sac	Intake screens	Pressure wash	Bi-annually	Apr/Oct	15 days	2	40					Boom truck	0	0	0	Boom truck	300	15	80%	8	DWR	15days = 30No. screens at 2/day. 1 boom operator +1 other																											
		Intake screens	Pressure wash	Bi-annually	Apr/Oct	15 days	2	40	2	1	50						Pressure washer	14	15	50%	5	DWR	15days = 30No. screens at 2/day. 1 pickup truck driver/pressure washer operator +1 other																											
Intake 3	Sac	Raker gates	Test operability	Bi-annually	Any	9 days	2	40									Mower	26	5	80%	8	DWR	3 gates/screen, lift tail, 10/min to raise, 45min/gate + 1hr mob + 1hr demob = 10 gates/day. 9 days = 90 gates at 10 gates/day.																											
Intake 3	Sac	Whole site	Ground maintenance	Bi-annually	Apr/Oct	5 days	1	40	2	1	50						Mower	26	5	80%	8	DWR																												
Intake 3	Sac	Whole site	Ground maintenance	Bi-annually	Apr/Oct	5 days	1	40	2	1	50						Pressure washer	14	5	80%	8	DWR																												
Intake 3	Sac	Intake screens	Pressure wash	Bi-annually	Apr/Oct	7.5 days	2	44					Boom truck	2	0.5	4	Boom truck	300	7.5	80%	8	DWR	7.5days = 15No. screens at 2/day. 1 boom operator +1 other																											
Intake 3	Sac	Intake screens	Pressure wash	Bi-annually	Apr/Oct	7.5 days	2	44	2	1	56						Pressure washer	14	7.5	50%	5	DWR	7.5days = 15No. screens at 2/day. 1 pickup truck driver/pressure washer operator +1 other																											
Intake 3	Sac	Raker gates	Test operability	Bi-annually	Any	4.5 days	2	44														DWR	2 gates/screen, lift tail, 10/min to raise, 45min/gate + 1hr mob + 1hr demob = 10 gates/day. 4.5 days = 45 gates at 10 gates/day.																											
Intake 3	Sac	Whole site	Ground maintenance	Bi-annually	Apr/Oct	5 days	1	44	2	1	56						Mower	26	5	80%	8	DWR																												
Intake 3	Sac	Whole site	Ground maintenance	Bi-annually	Apr/Oct	5 days	1	44	2	1	56						Pressure washer	14	5	80%	8	DWR																												
Intake 3	Sac	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	64	2	1	64						Mower	26	2	80%	8	DWR																												
Intake 3	Sac	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	64	2	1	64						Pressure washer	14	2	80%	8	DWR																												
Intake 3	Sac	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	76	2	1	76						Mower	26	2	80%	8	DWR																												
Intake 3	Sac	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	82	2	1	82						Pressure washer	14	2	80%	8	DWR																												
Intake 3	Sac	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	112	2	1	112						Mower	26	2	80%	8	DWR																												
Intake 3	Sac	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	112	2	1	112						Pressure washer	14	2	80%	8	DWR																												
Intake 3	Sac	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	112	2	1	112						Mower	26	5	80%	8	DWR																												
Intake 3	Sac	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	70	2	1	70						Mower	26	2	80%	8	DWR																												
Intake 3	Sac	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	70	2	1	70						Pressure washer	14	2	80%	8	DWR																												
Intake 3	Sac	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	64	2	1	64						Mower	26	2	80%	8	DWR																												
Intake 3	Sac	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	64	2	1	64						Pressure washer	14	2	80%	8	DWR																												
Intake 3	CC	Bayon Tract Maintenance Shaft	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	26	2	1	26						Mower	26	2	80%	8	DWR																												
Intake 3	CC	Bayon Tract Maintenance Shaft	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	26	2	1	26						Pressure washer	14	2	80%	8	DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	26	2	1	26						Mower	26	2	80%	8	DWR																												
Intake 3	CC	Southern Forebay Launch Shaft (North)	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	28	2	1	28						Pressure washer	14	2	80%	8	DWR																												
Intake 3	CC	Southern Forebay Launch Shaft (North)	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	28	2	1	28						Mower	26	2	80%	8	DWR																												
Intake 3	CC	Southern Forebay Launch Shaft (South)	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14						Pressure washer	14	2	80%	8	DWR																												
Intake 3	CC	Southern Forebay Launch Shaft (South)	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14						Mower	26	2	80%	8	DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	10	2	1	10						Pressure washer	14	2	80%	8	DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	10	2	1	10						Mower	26	2	80%	8	DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14						Pressure washer	14	2	80%	8	DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14						Mower	26	5	80%	8	DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14						Pressure washer	14	2	80%	8	DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	10	2	1	10											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14											DWR																												
Intake 3	CC	Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14	2	1	14																																							

Central Corridor 4,500 cfs Project Design Capacity (DWR EIR Alternative 2c) - Draft 06/29/2021
This tab summarizes annual ORM activities for Delta Conversion

Central Corridor 4,500 cfs Project Design Capacity (DWR EIR Alternative 2c) - Draft 06/29/2021
This tab summarizes annual ORM activities for Delta Conversion

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Central Corridor 4,500 cfs Project Design Capacity (DWR EIR Alternative 2c) - Draft 06/29/2021
This tab summarizes long term O&M activities for Delta Conveyance.

Southern Forebay	CC	Reservoir	Bathymetric survey	Every 5 years	Aug-Oct	5 days	2	104	2	1	104	Boat	150	5	20%	2	Contractor	1 boat pilot + 1 surveyor	
Southern Forebay	CC	Reservoir	Sediment removal - (drawdown, regrading)	Every 10 years	Jul-Aug	20 days	2	104	2	1	104	Dragage	400	20	100%	10	Contractor	200 tons/skidded	
Southern Forebay	CC	Reservoir	Sediment removal - (drawdown, regrading)	Every 10 years	Jul-Aug	20 days	4	104	2	1	104	Bottombar (single x2)	217	20	80%	8	Contractor	2 Bottombars	
Southern Forebay	CC	Reservoir	Sediment removal - (drawdown, regrading)	Every 10 years	Jul-Aug	20 days	2	104	2	1	104	Motor grader (compact)	139	20	80%	8	Contractor	2 Motor graders	
Southern Forebay	CC	Reservoir	Sediment removal - (drawdown, regrading)	Every 10 years	Jul-Aug	20 days	2	104	2	1	104	Compactor (x2)	80%	10	80%	8	Contractor	2 Compactors	
Southern Forebay	CC	Reservoir	Sediment removal - (drawdown, regrading)	Every 10 years	Jul-Aug	20 days	2	104	2	1	104	Wheel loader (compact)	73	20	80%	8	Contractor	42 load spoils into trucks	
Southern Forebay	CC	Reservoir	Sediment removal - (drawdown, regrading)	Every 10 years	Jul-Aug	20 days	2	104	2	1	104	Haul truck	276	20	80%	8	Contractor	Moving sediment to onsite dirt pile	
Southern Forebay	CC	Site roads	Regrading - Plane surface	Every 15 years	Aug-Oct	5.5 days	2	104	2	1	104	Planer	801	5.5	100%	10	Contractor	17,400 LF	
Southern Forebay	CC	Site roads	Regrading - Haul away from site	Every 15 years	Aug-Oct	5.5 days	1	104	5.5	164	5.4	104	Low loader	5.5	164	5.4	104	Contractor	13,113 yds. 16,273 tons @18 tons/truck
Southern Forebay	CC	Site roads	Regrading - Deliver asphalt	Every 15 years	Aug-Oct	5.5 days	1	104	5.5	164	5.4	104	Asphalt delivery truck	5.5	164	5.4	104	Contractor	6,313 yds. 16,273 tons @18 tons/truck
Southern Forebay	CC	Site roads	Regrading - Lay paving	Every 15 years	Aug-Oct	5.5 days	3	104	Low loader	2	1	104	Paver	235	5.5	100%	10	Contractor	

Southern Forebay	CC	Site roads	Repairing - Compact paving	Every 15 years	Apr-Oct	5.5 days	2	104
Southern Forebay Outlet Structure	CC	Gantry Crane	Reidentification	Every 4 years	Apr-Oct	2 days	4	104
South Delta Outlet and Control Structure	CC	Radial gates	Hoist cable rebalancing	Every 2 years	Apr-Oct	5 days	2	10
South Delta Outlet and Control Structure	CC	Radial gates	Hoist cable and motor replacement	Every 15 years	Apr-Oct	10 days	2	10
South Delta Outlet and Control Structure	CC	Radial gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	210 days	2	108
South Delta Outlet and Control Structure	CC	Radial gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	210 days	1	108
South Delta Outlet and Control Structure	CC	Radial gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	210 days	1	108
South Delta Outlet and Control Structure	CC	Radial gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	210 days	3	108
South Delta Outlet and Control Structure	CC	Structure	Survey	Every 2 years	Apr-Oct	1 day	2	108
Southern Connections	CC	Site roads	Repairing - Plane surface	Every 15 years	Apr-Oct	2.5 days	3	108
Southern Connections	CC	Site roads	Repairing - Haul away from site	Every 15 years	Apr-Oct	2.5 days	1	108
Southern Connections	CC	Site roads	Repairing - Deliver asphalt	Every 15 years	Apr-Oct	2.5 days	1	108
Southern Connections	CC	Site roads	Repairing - Lay paving	Every 15 years	Apr-Oct	2.5 days	3	108
Southern Connections	CC	Site roads	Repairing - Compact paving	Every 15 years	Apr-Oct	2.5 days	2	108
California Aqueduct Control Structure	Ala	Radial gates	Hoist cable rebalancing	Every 3 years	Apr-Oct	3 days	2	10
California Aqueduct Control Structure	Ala	Radial gates	Hoist cable and motor replacement	Every 15 years	Apr-Oct	4 days	2	10
California Aqueduct Control Structure	Ala	Radial gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	126 days	2	108
California Aqueduct Control Structure	Ala	Radial gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	126 days	1	108
California Aqueduct Control Structure	Ala	Radial gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	126 days	1	108
California Aqueduct Control Structure	Ala	Structure	Survey	Every 2 years	Apr-Oct	1 day	2	108

Low loader	2	1	104	Compactor	131	5.5	100%	10
Boom truck	2	1	104	Boom truck	300	3	20%	2
Boom truck	5	1	10	Boom truck	300	5	80%	8
Boom truck	10	1	10	Boom truck	300	10	80%	8
Boom truck	10	1	108	Boom truck	300	10	80%	8
Flat bed truck	10	1	108	Flat bed truck	380	10	80%	8
Low loader	10	1	108	Forklift	74	10	80%	8
Truck mounted crane	10	1	108	Truck mounted crane	175	10	80%	8
Low loader	2	1	104	Placer	801	2.5	100%	10
Haul truck	2.5	77	54					
Asphalt delivery truck	2.5	77	104					
Low loader	2	1	104	Paver	225	2.5	100%	10
Low loader	2	1	104	Compactor	131	2.5	100%	10
Boom truck	3	1	10	Boom truck	300	3	50%	5
Boom truck	6	1	10	Boom truck	300	4	50%	5
Boom truck	6	1	108	Boom truck	300	6	80%	8
Flat bed truck	6	1	108	Flat bed truck	380	6	80%	8
Low loader	6	1	108	Forklift	74	6	80%	8
Truck mounted crane	6	1	108	Truck mounted crane	175	6	80%	8

Contractor	Per CA OSHA
DWR	10 radial gates, assume 1/2 day / gate
DWR	10 radial gates, assume 1 day / gate
Contractor	10 radial gates x 1mth (21 days) / gate. Install and remove bulkheads.
Contractor	10 radial gates x 1mth (21 days) / gate. Install and remove bulkheads.
Contractor	10 radial gates x 1mth (21 days) / gate. Install and remove bulkheads.
Contractor	10 radial gates x 1mth (21 days) / gate. Assume 1 day / gate to swap out
Contractor	1,006 LF
Contractor	1,779 yd3, 3,483 tons @ 18 tons/truck
Contractor	1,779 yd3, 3,483 tons @ 18 tons/truck
Contractor	
Contractor	6 radial gates, assume 1/2 day / gate
DWR	6 radial gates, assume 1 day / gate
Contractor	6 radial gates x 1mth (21 days) / gate. Install and remove bulkheads.
Contractor	6 radial gates x 1mth (21 days) / gate. Install and remove bulkheads.
Contractor	6 radial gates x 1mth (21 days) / gate. Install and remove bulkheads.
Contractor	6 radial gates x 1mth (21 days) / gate. Assume 1 day / gate to swap out

APPENDIX I - Preliminary Operations and Maintenance Information for EIR Air Quality and Traffic Analyses for the Eastern Corridor

This appendix provides preliminary operations and maintenance information for the Eastern Corridor related to quantities of equipment and vehicle use and employee travel needs to develop air quality and traffic analyses in the EIR. The information is provided in the following attachments organized by project design capacity option:

- Attachment 1. Project Design Capacity for 6,000 cfs
- Attachment 2. Project Design Capacity for 7,500 cfs
- Attachment 3. Project Design Capacity for 3,000 cfs
- Attachment 4. Project Design Capacity for 4,500 cfs

APPENDIX I – ATTACHMENT 1

Project Design Capacity 6,000 cfs

FINAL DRAFT

Operations and Maintenance Activities (Draft)

Eastern Corridor 6,000 cfs Project Design Capacity (DWR EIR Alternative 3) - Draft 06/29/2021
This tab summarizes daily O&M activities for Delta Conveyance.

			Occurrence					Employees		Light Duty Trucks		Heavy Duty Trucks				Other Equipment					Generators								
Site	County	Structure / Equipment	Activity	Frequency	Season	Duration	Number per day	Round trip miles per day	Activity days	Round trips per day	Round trip miles	Type	Activity days	Round trips per day	Round trip miles	Type	Hours/operation	Activity Days/operation	Utilisation	Operating hours per day	Miles/day (assumed length of haul)	Operation (\$ / day)	No. of generators	Hours/operation	Engine Type	Daily Hours / Generator	Annual Hours / Generator	Responsible Party	Notes
Intake 3	Sac	Whole site	Inspection / security check	Daily	All	4 hrs	2	40																			DWR		
Intake 5	Sac	Whole site	Inspection / security check	Daily	All	4 hrs	2	44																			DWR		
Twain Cities Launch Shaft	Sac	Whole site	Inspection / security check	Daily	All	1 hr	2	64																			DWR		
New Hope Maintenance Shaft (Eastern)	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	72																			DWR		
Canal Ranch Maintenance Shaft	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	78																			DWR		
Terminous Tract Reception Shaft	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	90																			DWR		
King Island Maintenance Shaft	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	96																			DWR		
Lower Robert's Island Launch and Reception Shaft	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	52																			DWR		
Upper Jones Tract Maintenance Shaft	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	74																			DWR		
Byron Tract Maintenance Shaft	CC	Whole site	Inspection / security check	Daily	All	1 hr	2	26																			DWR		
Southern Forebay Launch Shaft (North)	CC	Whole site	Inspection / security check	Daily	All	1 hr	2	26																			DWR		
Southern Forebay Launch Shaft (South)	CC	Whole site	Inspection / security check	Daily	All	1 hr	2	14																			DWR		
CA Aqueduct Reception Shaft	CC	Whole site	Inspection / security check	Daily	All	1 hr	2	10																			DWR		
South Delta Pumping Plant	CC	Whole site	Inspection / security check	Daily	All	2 hrs	2	14																			DWR	including electrical substation	
Southern Forebay	CC	Whole site	Inspection / security check	Daily	All	2 hrs	2	14																			DWR		
South Delta Outfall and Control Structure	CC	Whole site	Inspection / security check	Daily	All	1 hr	2	10																			DWR		
Sacramento Control Centre	Sac	Whole system	Operations oversight	Daily	All	1 day	3	10																			DWR	3 x 8hr shifts in 24hrs	
Delta Field Division Control Centre	Ala	Whole system	Operations oversight	Daily	All	1 day	3	30																			DWR	3 x 8hr shifts in 24hrs	

Eastern Corridor 6,000 cfs Project Design Capacity (DWR EIR Alternative 3) - Draft 06/29/2021
This tab summarizes weekly and bi-weekly O&M activities for Delta Conveyance.

[illegible]

Operations and Maintenance Activities (Draft)

Eastern Corridor 6,000 cfs Project Design Capacity (DWR EIR Alternative 3) - Draft 06/29/2021
This tab summarizes monthly O&M activities for Delta Conveyance.

Site	County	Structure / Equipment	Occurrences				Employees			Light Duty Trucks			Heavy Duty Trucks				Other Equipment						Generators					Responsible Party	Notes
			Activity	Frequency	Season	Duration	Number per day	Round trip miles per day	Activity days	Round trip miles per day	Round trip miles	Type	Activity days	Round trip per day	Round trip miles	Type	Incinerator	Activity Date	Utilization	Operating hours per day	Miles/Day (assumed length of haul)	Separation (ft / day)	No. of generators	Engine Power	Engine Size	Daily Hours / Generator	Annual Hours / Generator		
Intake 3	Sac	Intake screens	Test operability	Monthly	All	1 day	2	40																				DWR	
Intake 3	Sac	Standby generators	Test operability	Monthly	All	1 hr	2	40															2	50	4	1	6	DWR	x2 generators tested for 1/2hr each every month. Tier assumed.
Intake 5	Sac	Intake screens	Test operability	Monthly	All	1 day	2	44															2	50	4	1	6	DWR	
Intake 5	Sac	Standby generators	Test operability	Monthly	All	1 hr	2	44															2	50	4	1	6	DWR	x2 generators tested for 1/2hr each every month. Tier assumed.
South Delta Pumping Plant	CC	Medium Voltage Transformers (Electrical Building)	Inspection	Monthly	All	1 day	2	14																				DWR	
South Delta Pumping Plant	CC	Siphon/In Release Valves (Pumping Plant)	Inspection	Monthly	All	1 day	2	14																				DWR	
South Delta Pumping Plant	CC	Electric generator (Generator Building)	General maintenance and testing	Monthly	All	8 hrs	2	14																				DWR	107No. Valves, x1hr/valve
South Delta Pumping Plant	CC	Check valves	Inspection and maintenance	Monthly	All	1 day	2	14																				DWR	
Southern Forebay	CC	Emergency Outlet	Test operability	Monthly	All	2 hrs	2	14																				DWR	
Southern Forebay	CC	Emergency Outlet Standby Generators	Test operability	Monthly	All	1 hr	2	104															1	50	4	1	12	Contractor	Assumed hp and runtime. Tier assumed.
Southern Forebay Outlet Structure	CC	Trash racks	Cleaning	Monthly	All	1 day	2	14				Low loader	1	1	14	Backhoe	68	1	80%	8			1	50	4	1	12	Contractor	Assumed hp and runtime. Tier assumed.
South Delta Outlet and Control Structure	CC	Generator	Test operability and inspection	Monthly	All	1 hr	2	108															1	50	4	1	12	Contractor	

Operations and Maintenance Activities (Draft)

Eastern Corridor 6,000 cfs Project Design Capacity (DWR EIR Alternative 3) - Draft 06/29/2021
This tab summarizes quarterly O&M activities for Delta Conveyance.

			Occurrences																			Employees	Light Duty Trucks		Heavy Duty Trucks				Other Equipment										Generators					
Site	County	Structure / Equipment	Activity	Frequency	Season	Duration	Number per day	Round trip miles per day	Activity days	Round trip miles per day	Round trip miles	Type	Activity days	Round trip miles per day	Round trip miles	Type	Hours per week	Activity Days	Utilization	Operating hours per day	Miles/day (assumed length of haul)	Excavation (cu yd / day)	No. of generators	Hours per generator	Daily Hours / Generator	Annual Hours / Generator	Responsible Party	Notes																
South Delta Pumping Plant	CC	DX Air Handler (Electrical Building)	General maintenance	Quarterly	All	5 days	2	14																		DWR	2 Nos. DX Air Handlers, x1 day each																	
South Delta Pumping Plant	CC	Ventilation Equipment (Generator Building)	General maintenance	Quarterly	All	4 hrs	2	14																		DWR																		
South Delta Pumping Plant	CC	HVAC Equipment (Mechanical Storage Building)	General maintenance	Quarterly	All	8 hrs	2	14																		DWR																		
South Delta Pumping Plant	CC	HVAC Equipment (Mechanical Storage Building)	Maintenance	Quarterly	All	8 hrs	2	14																		DWR																		
Southern Forebay	CC	Embankments	Animal burrow filling	Quarterly	All	2 days	2	14	2	1	14						Rammer /compactor	5.5	2	80%	8					DWR	2 laborers																	
Southern Forebay	CC	Embankments	Weed management/herbicide application	Quarterly	All	3 days	2	14																		DWR	1 truck driver + 1 herbicide applicator																	

This tab summarizes bi-annual O&M activities for Delta Conveyance.

Occurrence										Employee			Light Duty Traffic			Heavy Duty Traffic			Other Equipment			Generators					Notes
Site	County	Structure / Equipment	Activity	Frequency	Season	Duration	Estimate per day	Hours per day	Round trip per day	Round trip miles	Type	Activity days	Round trip per day	Round trip miles	Type	Hours per day	Round trip per day	Round trip miles	Hours per day	Round trip per day	Round trip miles	Hours per day	Round trip per day	Round trip miles			
Intake 1	Sec	Intake screens	Pressure wash	Bi-annually	Any/Oct	15 days	2	40			Boom truck	0	0	0	Boom truck	200	15	500	8	DWR	15days = 3000+ screens at 2/day; 1 boom operator +1 other						
Intake 2	Sec	Roller gates	Pressure wash	Bi-annually	Any/Oct	15 days	4	40	2	1	50				Pressure washer	26	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 3	Sec	Roller gates	Test capacity	Bi-annually	Any	9 days	2	40							Mower	26	5	800	8	DWR							
Intake 4	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	40	2	1	50				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 5	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	40	2	1	50				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 6	Sec	Intake screens	Pressure wash	Bi-annually	Any/Oct	15 days	2	40			Boom truck	2	0.5	4	Pressure washer	200	15	500	8	DWR	15days = 3000+ screens at 2/day; 1 boom operator +1 other						
Intake 7	Sec	Intake screens	Pressure wash	Bi-annually	Any/Oct	15 days	2	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 8	Sec	Roller gates	Test capacity	Bi-annually	Any	9 days	2	44							Mower	26	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 boom operator +1 other						
Intake 9	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 10	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 11	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 12	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 13	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 14	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 15	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 16	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 17	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 18	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 19	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 20	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 21	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 22	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 23	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 24	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 25	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 26	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 27	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 28	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 29	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 30	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 31	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 32	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 33	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 34	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 35	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 36	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 37	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 38	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 39	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 40	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 41	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 42	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 43	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 44	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 45	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 46	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 47	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 48	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 49	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 50	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 51	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 52	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 53	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 54	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 55	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 56	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 57	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 58	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 59	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 60	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 61	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 62	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 63	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 64	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1	56				Pressure washer	14	5	800	8	DWR	15days = 3000+ screens at 2/day; 1 pickup truck driver/pressure washer operator + 1 other						
Intake 65	Sec	Whole site	Ground maintenance	Bi-annually	Any/Oct	15 days	1	44	2	1																	

Eastern Corridor 6,000 cfs Project Design Capacity (DWR EIR Alternative 3) - Draft 06/29/2022
This tab summarizes annual O&M activities for Delta Conveyance

Job			County			Structure / Equipment			Occurrence			Frequency			Season			Duration			Hours per day			Light Duty Trucks			Heavy Duty Trucks			Other Equipment			Generator			Responsible Party		
Job	County	Structure / Equipment	Activity	Frequency	Season	Duration	Hours per day	Light Duty Trucks	Heavy Duty Trucks	Other Equipment	Generator	Responsible Party	Job	County	Structure / Equipment	Activity	Frequency	Season	Duration	Hours per day	Light Duty Trucks	Heavy Duty Trucks	Other Equipment	Generator	Responsible Party	Job	County	Structure / Equipment	Activity	Frequency	Season	Duration	Hours per day	Light Duty Trucks	Heavy Duty Trucks	Other Equipment	Generator	Responsible Party
Intake 1	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 1	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 2	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 2	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 3	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 3	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 4	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 4	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 5	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 5	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 6	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 6	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 7	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 7	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 8	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 8	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 9	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 9	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 10	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 10	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 11	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 11	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 12	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 12	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 13	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 13	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 14	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 14	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 15	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 15	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 16	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 16	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 17	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 17	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 18	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 18	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 19	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 19	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 20	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 20	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 21	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 21	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 22	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 22	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 23	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 23	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 24	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 24	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 25	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 25	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 26	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 26	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 27	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 27	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 28	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 28	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 29	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 29	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 30	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 30	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 31	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 31	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 32	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 32	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 33	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 33	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 34	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 34	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 35	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 35	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 36	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 36	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 37	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 37	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 38	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 38	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 39	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 39	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 40	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 40	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.					
Intake 41	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6	20%	2	Contractor	Assume 1 screen/day, 6 screens/yr. All screens every 5yrs. Includes maintenance of motors, seals etc.	Intake 41	San Diego	Intake screens	Refurbish	Annually	Any	6 days	1	40	1	40	74	6									

This tab summarizes long term O&M activities for Delta Conveyance.

Southern Forebay	CC	Reservoir	Sediment removal - (drawdown, regrading)	Every 10 years	Jul-Sept	20 days	2	104
Southern Forebay	CC	Reservoir	Sediment removal - (drawdown, regrading)	Every 10 years	Jul-Sept	20 days	2	104
Southern Forebay	CC	Spillway	Surface repair	Every 2 years	Apr-Oct	5 days	4	104
Southern Forebay	CC	Site roads	Repaving - Plane surface	Every 15 years	Apr-Oct	5.5 days	3	104
Southern Forebay	CC	Site roads	Repaving - Haul away from site	Every 15 years	Apr-Oct	5.5 days	1	104
Southern Forebay	CC	Site roads	Repaving - Deliver asphalt	Every 15 years	Apr-Oct	5.5 days	1	104
Southern Forebay	CC	Site roads	Repaving - Lay paving	Every 15 years	Apr-Oct	5.5 days	3	104
Southern Forebay	CC	Site roads	Repaving - Compact paving	Every 15 years	Apr-Oct	5.5 days	2	104
Southern Forebay Outlet Structure	CC	Gantry Crane	Re-certification	Every 4 years	Apr-Oct	2 days	4	104
South Delta Outlet and Control Structure	CC	Radiat gates	Hoist cable rebalancing	Every 2 years	Apr-Oct	5 days	2	10
South Delta Outlet and Control Structure	CC	Radiat gates	Hoist cable and motor replacement	Every 15 years	Apr-Oct	10 days	2	10
South Delta Outlet and Control Structure	CC	Radiat gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	210 days	2	108
South Delta Outlet and Control Structure	CC	Radiat gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	210 days	1	108
South Delta Outlet and Control Structure	CC	Radiat gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	210 days	1	108
South Delta Outlet and Control Structure	CC	Radiat gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	210 days	3	108
South Delta Outlet and Control Structure	CC	Structure	Survey	Every 2 years	Apr-Oct	1 day	2	108
Southern Connections	CC	Site roads	Repaving - Plane surface	Every 15 years	Apr-Oct	2.5 days	3	108
Southern Connections	CC	Site roads	Repaving - Haul away from site	Every 15 years	Apr-Oct	2.5 days	1	108
Southern Connections	CC	Site roads	Repaving - Deliver asphalt	Every 15 years	Apr-Oct	2.5 days	1	108
Southern Connections	CC	Site roads	Repaving - Lay paving	Every 15 years	Apr-Oct	2.5 days	3	108
Southern Connections	CC	Site roads	Repaving - Compact paving	Every 15 years	Apr-Oct	2.5 days	2	108
California Aqueduct Control Structure	Ala	Radiat gates	Hoist cable rebalancing	Every 2 years	Apr-Oct	3 days	2	10
California Aqueduct Control Structure	Ala	Radiat gates	Hoist cable and motor replacement	Every 15 years	Apr-Oct	6 days	2	10
California Aqueduct Control Structure	Ala	Radiat gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	126 days	2	108
California Aqueduct Control Structure	Ala	Radiat gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	126 days	1	108
California Aqueduct Control Structure	Ala	Radiat gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	126 days	3	108
California Aqueduct Control Structure	Ala	Structure	Survey	Every 2 years	Apr-Oct	1 day	2	108

Low loader	2	1	104	Wheel loader (compact)	73	20	80%	8
Haul truck	2	1	104	Planer	216	20	80%	8
Low loader	2	1	104		801	5.5	100%	10
Haul truck	5.5	164	14					
Asphalt delivery truck	5.5	164	104					
Low loader	2	1	104	Planer	225	2.5	100%	10
Low loader	2	1	104	Compactor	131	5.5	100%	10
Boom truck	2	1	104	Boom truck	300	2	20%	2
Boom truck	5	1	10	Boom truck	300	5	80%	8
Boom truck	10	1	10	Boom truck	300	10	80%	8
Boom truck	10	1	108	Boom truck	300	10	80%	8
Flat bed truck	10	1	108	Flat bed truck	380	10	80%	8
Low loader	10	1	108	Forklift	74	10	80%	8
Truck mounted crane	10	1	108	Truck mounted crane	175	10	80%	8
Low loader	2	1	104	Planer	801	2.5	100%	10
Haul truck	2.5	77	14					
Asphalt delivery truck	2.5	77	104					
Low loader	2	1	104	Planer	225	2.5	100%	10
Low loader	2	1	104	Compactor	131	2.5	100%	10
Boom truck	3	1	10	Boom truck	300	3	50%	5
Boom truck	6	1	10	Boom truck	300	6	50%	5
Boom truck	6	1	108	Boom truck	300	6	80%	8
Flat bed truck	6	1	108	Flat bed truck	380	6	80%	8
Low loader	6	1	108	Forklift	74	6	80%	8
Truck mounted crane	6	1	108	Truck mounted crane	175	6	80%	8

Contractor	to load spoils into trucks
Contractor	moving sediment to onsite dirt pile
Contractor	
Contractor	17,400 LF
Contractor	8,313 yds, 16,273 tons @18 tons/truck
Contractor	8,313 yds, 16,273 tons @18 tons/truck
Contractor	Per CA OSHA
DWR	10 radial gates, assume 1/2 day / gate
DWR	10 radial gates, assume 1 day / gate
Contractor	10 radial gates x 1mth (21 days) / gate. Install and remove bulkheads.
Contractor	10 radial gates x 1mth (21 days) / gate. Install and remove bulkheads.
Contractor	10 radial gates x 1mth (21 days) / gate. Install and remove bulkheads.
Contractor	10 radial gates x 1mth (21 days) / gate. Assume 1 day / gate to swap out
Contractor	
Contractor	4,006 LF
Contractor	1,779 yds, 3,483 tons @18 tons/truck
Contractor	1,779 yds, 3,483 tons @18 tons/truck
Contractor	
DWR	6 radial gates, assume 1/2 day / gate
DWR	6 radial gates, assume 1 day / gate
Contractor	6 radial gates x 1mth (21 days) / gate. Install and remove bulkheads.
Contractor	6 radial gates x 1mth (21 days) / gate. Install and remove bulkheads.
Contractor	6 radial gates x 1mth (21 days) / gate. Install and remove bulkheads.
Contractor	6 radial gates x 1mth (21 days) / gate. Assume 1 day / gate to swap out

APPENDIX I – ATTACHMENT 2

Project Design Capacity 7,500 cfs

FINAL DRAFT

Operations and Maintenance Activities (Draft)

Eastern Corridor 7,500 cfs Project Design Capacity (DWR EIR Alternative 4a) - Draft 06/29/2021

This tab summarizes daily O&M activities for Delta Conveyance.

		Occurrences										Employees		Light Duty Trucks		Heavy Duty Trucks										Other Equipment					Generators					
Site	County	Structure / Equipment	Activity	Frequency	Season	Duration	Number per day	Round trip mile per day	Activity days	Round trip per day	Round trip miles	Type	Activity days	Round trips per day	Round trip miles	Type	Hours per day	Activity Days	Utilisation	Operating hours per day	Miles/day (assumed length 6000ft)	Excavation (cu / day)	No. of generators	Engine Size	Daily Hours / Generator	Annual Hours / Generator	Responsible Party	Notes								
Intake 2	Sac	Whole site	Inspection / security check	Daily	All	4 hrs	2	42																			DWR									
Intake 3	Sac	Whole site	Inspection / security check	Daily	All	4 hrs	2	42																			DWR									
Intake 5	Sac	Whole site	Inspection / security check	Daily	All	4 hrs	2	44																			DWR									
Twin Cities Launch Shaft	Sac	Whole site	Inspection / security check	Daily	All	1 hr	2	64																			DWR									
New Hope Maintenance Shaft (Eastern)	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	72																			DWR									
Canal Ranch Maintenance Shaft	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	76																			DWR									
Terminus Tract Reception Shaft	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	90																			DWR									
King Island Maintenance Shaft	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	96																			DWR									
Lower Roberts Island Launch and Reception Shaft	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	92																			DWR									
Upper Jones Tract Maintenance Shaft	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	74																			DWR									
Byron Tract Maintenance Shaft	CC	Whole site	Inspection / security check	Daily	All	1 hr	2	26																			DWR									
Southern Forebay Launch Shaft (North)	CC	Whole site	Inspection / security check	Daily	All	1 hr	2	28																			DWR									
Southern Forebay Launch Shaft (South)	CC	Whole site	Inspection / security check	Daily	All	1 hr	2	14																			DWR									
CA Aqueduct Reception Shaft	CC	Whole site	Inspection / security check	Daily	All	1 hr	2	10																			DWR									
South Delta Pumping Plant	CC	Whole site	Inspection / security check	Daily	All	2 hrs	2	14																			DWR									
Southern Forebay	CC	Whole site	Inspection / security check	Daily	All	2 hrs	2	14																			DWR									
South Delta Order and Control Structure	CC	Whole site	Inspection / security check	Daily	All	1 hr	2	10																			DWR									
Delta Mendota Canal Control Structure	Ala	Whole site	Inspection / security check	Daily	All	1 hr	2	6																			DWR									
Sacramento Control Centre	Sac	Whole system	Operations oversight	Daily	All	1 day	3	10																			DWR	3 x 8hr shifts in 24hrs								
Delta Field Division Control Centre	Ala	Whole system	Operations oversight	Daily	All	1 day	3	30																			DWR	3 x 8hr shifts in 24hrs								

Eastern Corridor 7,500 cfs Project Design Capacity (DWR EIR Alternative 4a) - Draft 06/29/2021
This tab summarizes weekly and bi-weekly O&M activities for Delta Conveyance.

[illegible]

Eastern Corridor 7,500 cfs Project Design Capacity (DWR EIR Alternative 4a) - Draft 06/29/2021
This tab summarizes monthly O&M activities for Delta Conveyance.

			Occurrence				Employees		Light Duty Trucks				Heavy Duty Trucks				Other Equipment			Generators					Responsible Party					
Site	County	Structure / Equipment	Activity	Frequency	Season	Duration	Number per day	Round trip miles per day	Activity days	Round trip miles	Round trip miles	Type	Activity days	Round trip miles	Round trip miles	Type	Hours per day	Activity days	Utilization	Operating hours per day	Miles/day (assumed 2000-2500)	Excavation (cu / day)	No. of Generators	Hours / Generator	Daily Hours / Generator	Annual Hours / Generator	Notes			
Intake 2	Sac	Intake screens	Test operability	Monthly	All	0.5 days	2	40															2	50	4	1	6	DWR	+2 generators tested for 1/2hr each every month. Tier assumed.	
Intake 2	Sac	Standby generators	Test operability	Monthly	All	1 hr	2	40																			6	DWR		
Intake 3	Sac	Intake screens	Test operability	Monthly	All	1 day	2	42																				DWR		
Intake 3	Sac	Standby generators	Test operability	Monthly	All	1 hr	2	42															2	50	4	1	6	DWR		
Intake 5	Sac	Intake screens	Test operability	Monthly	All	1 day	2	46																				DWR		
Intake 5	Sac	Standby generators	Test operability	Monthly	All	1 hr	2	46																2	50	4	1	6	DWR	+2 generators tested for 1/2hr each every month. Tier assumed.
South Delta Pumping Plant	CC	Medium Voltage Transformers (Electrical Building)	Inspection	Monthly	All	1 day	2	14																				DWR	100% Values, 100% false	
South Delta Pumping Plant	CC	Siphon/W Release Valves (Pumping Plant)	Inspection	Monthly	All	1 day	2	14																				DWR		
South Delta Pumping Plant	CC	Electric generator (Generator Building)	General maintenance and testing	Monthly	All	8 hrs	2	14																				DWR		
South Delta Pumping Plant	CC	Check valves	Inspection and maintenance	Monthly	All	1 day	2	14																				DWR		
South Delta Pumping Plant	CC	Emergency Outlet	Test operability	Monthly	All	2 hrs	2	14																				DWR		
Southern Forebay	CC	Emergency Outlet Standby Generators	Test operability	Monthly	All	1 hr	2	104															1	50	4	1	12	Contractor	Assumed hp and runtime. Tier assumed.	
Southern Forebay	CC	Truck racks	Cleaning	Monthly	All	1 day	2	14																				Contractor	Assumed hp and runtime. Tier assumed.	
Southern Forebay Outlet Structure	CC	Generator	Test operability and inspection	Monthly	All	1 hr	2	88															1	50	4	1	12	Contractor	Assumed hp and runtime. Tier assumed.	
Delta Mendota Canal Control Structure	Ala	Generator	Test operability and inspection	Monthly	All	1 day	2	54															1	50	4	1	12	Contractor	Assumed hp and runtime. Tier assumed.	

Operations and Maintenance Activities (Draft)

Eastern Corridor 7,500 cfs Project Design Capacity (DWR EIR Alternative 4a) - Draft 06/29/2021
This tab summarizes quarterly O&M activities for Delta Conveyance.

			Occurrences																Other Equipment										Generators				Notes
Site	County	Structure / Equipment	Activity	Frequency	Season	Duration	Employees		Light Duty Trucks		Heavy Duty Trucks														No. of generators	Engine Size	Daily Hours / Generator	Annual Hours / Generator	Responsible Party				
							Number per day	Round trip miles per day	Activity days	Round trip miles	Type	Activity days	Round trip miles per day	Round trip miles	Type	Hours/week	Activity Days	Utilization	Operating Hours per day	Miles/Day (assumed Depth)	Excavation (ft / day)												
South Delta Pumping Plant	CC	DX Air Handler (Electrical Building)	General maintenance	Quarterly	All	5 days	2	14																			DWR	2 Nos. DX Air Handlers, x1 day each					
South Delta Pumping Plant	CC	Ventilation Equipment (Generator Building)	General maintenance	Quarterly	All	4 hrs	2	14																			DWR						
South Delta Pumping Plant	CC	HVAC Equipment (Mechanical Storage Building)	General maintenance	Quarterly	All	8 hrs	2	14																				DWR					
South Delta Pumping Plant	CC	HVAC Equipment (Mechanical Storage Building)	Maintenance	Quarterly	All	8 hrs	2	14																				DWR					
Southern Forebay	CC	Embankments	Animal burrow filling	Quarterly	All	2 days	2	14	2	1	14																	DWR	2 laborers 1 truck driver + 1 herbicide applicator				
Southern Forebay	CC	Embankments	Weed management/ herbicide application	Quarterly	All	3 days	2	14									Rammer/compactor	5.5	2	80%	8						DWR						

Operations and Maintenance Activities (Draft)

Eastern Corridor - 2,500-cb Project Design Capacity (DWR EIR Alternative 4) - Draft 06/26/2021

This table summarizes Bi-annual O&M activities for Delta Conveyance

			Occurrence				Equipment				Light Duty Tools				Heavy Duty Tools				Other Equipment				Generators																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Site	County	Structure / Equipment	Activity	Frequency	Season	Duration	Number per day	Hours per day	Activity days	Hours per day	Hours per day	Type	Activity days	Hours per day	Hours per day	Type	Hours per day	Activity days	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per 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day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day</

Operations and Maintenance Activities (Draft)

Eastern Corridor / 500-15 Project Design Capacity (DWR EIR Alternative 4) - Draft 06/26/2021

This table summarizes annual O&M activities for Daily Operations.

Occurrence										Employee										Light Duty Trucks										Heavy Duty Trucks										Other Equipment										Generator										Response Party	Notes																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Site	County	Activity / Equipment	Activity	Frequency	Season	Duration	Number per day	Required hours per day	Activity days	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day			Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per day	Hours per 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Operations and Maintenance Activities (Draft)

Eastern Colorado 7,500 cfs Project Design Capacity (DWR EIR Alternative 4a) - Draft 06/29/2021
This tab summarizes long term O&M activities for Delta Conveyance.

Occurrences										Employees		Light Duty Trucks		Heavy Duty Trucks		Other Equipment				Generators					Responsible Party	
Site	County	Structure / Equipment	Activity	Frequency	Season	Duration	Number per day	Round trip miles per day	Round trip days	Round trip miles	Type	Activity days	Round trip per day	Round trip miles	Type	Hours per day	Utilization	Operating hours per day	Mileage per day (assumed length)	Excavation (cu yd)	No. of generators	Engine Size	Daily Hours / Generator	Annual Hours / Generator	Responsible Party	Notes
Intake 2	Sac	Site roads	Sealing and coating	Every 2 years	Apr-Oct	40 hrs	4	46																	Contractor	
Intake 2	Sac	Site roads	Sealing	Every 2 years	Apr-Oct	16 hrs	2	46																	Contractor	
Intake 2	Sac	Domestic WW/Sepic System/Launchfield	Cleaning/Chasing	Every 5 years	Apr-Oct	8 hrs	2	46																	Contractor	
Intake 2	Sac	Electrical substation	Refurbishment	Every 4 years	Apr-Oct	1 day	2	46																	Contractor	
Intake 2	Sac	Gully Cane	Refurbishment	Every 4 years	Apr-Oct	2 days	4	46																	Contractor	Per CA OSHA.
Intake 2	Sac	Radial gates	Host cable re-lubricating	Every 2 years	Apr-Oct	1 day	2	46			Boom truck	1	1	4	Boom truck	300	1	50%	5						Contractor	2 radial gates, assume 1/2 day / gate
Intake 2	Sac	Radial gates	Host cable and motor replacement	Every 15 years	Apr-Oct	2 days	4	46			Boom truck	2	0.5	4	Boom truck	300	2	50%	5						Contractor	4 radial gates, assume 1 day / gate
Intake 2	Sac	Radial gates	Refurbishment, recast and cathodic protection	Every 30 years	Apr-Oct	42 days	2	46			Boom truck	2	1	46	Boom truck	300	2	80%	8						Contractor	2 radial gates x 10th (21 days) / gate. Install and remove bulkheads.
Intake 2	Sac	Radial gates	Refurbishment, recast and cathodic protection	Every 30 years	Apr-Oct	42 days	1	46			Flat bed truck	2	1	46	Flat bed truck	380	2	80%	8						Contractor	1 radial gates x 10th (21 days) / gate. Install and remove bulkheads.
Intake 2	Sac	Radial gates	Refurbishment, recast and cathodic protection	Every 30 years	Apr-Oct	42 days	1	46			Low loader	2	1	46	Forklift	74	2	80%	8						Contractor	2 radial gates x 10th (21 days) / gate. Install and remove bulkheads.
Intake 2	Sac	Radial gates	Refurbishment, recast and cathodic protection	Every 30 years	Apr-Oct	42 days	3	46			Truck mounted crane	2	1	46	Truck mounted crane	175	2	80%	8						Contractor	2 radial gates x 10th (21 days) / gate. Assume 1 day / gate to swap out
Intake 2	Sac	Site roads	Re-paving - Plane surface	Every 15 years	Apr-Oct	2.5 days	3	46			Low loader	2	1	46	Planer	801	2.5	100%	10						Contractor	10,565 LF
Intake 2	Sac	Site roads	Re-paving - Half away from site	Every 15 years	Apr-Oct	2.5 days	1	46			Head truck	2.5	102	50											Contractor	2,348 yds, 4,996 tons @ 18 tons/truck
Intake 2	Sac	Site roads	Re-paving - Deliver asphalt	Every 15 years	Apr-Oct	2.5 days	1	46			Asphalt delivery truck	2.5	102	46											Contractor	2,348 yds, 4,996 tons @ 18 tons/truck
Intake 2	Sac	Site roads	Re-paving - Lay paving	Every 15 years	Apr-Oct	2.5 days	3	46			Low loader	2	1	46	Power	225	2.5	100%	10						Contractor	
Intake 2	Sac	Site roads	Re-paving - Compact paving	Every 15 years	Apr-Oct	2.5 days	2	46			Low loader	2	1	46	Compactor	131	2.5	100%	10						Contractor	
Intake 2	Sac	Site roads	Sealing and coating	Every 2 years	Apr-Oct	40 hrs	4	50																	Contractor	
Intake 3	Sac	Site roads	Sealing	Every 2 years	Apr-Oct	16 hrs	2	50																	Contractor	
Intake 3	Sac	Domestic WW/Sepic System/Launchfield	Specialist testing	Every 5 years	Apr-Oct	8 hrs	2	50																	Contractor	
Intake 3	Sac	Electrical substation	Refurbishment	Every 4 years	Apr-Oct	1 day	2	50																	Contractor	
Intake 3	Sac	Gully Cane	Refurbishment	Every 4 years	Apr-Oct	2 days	4	50																	Contractor	Per CA OSHA.
Intake 3	Sac	Radial gates	Host cable re-lubricating	Every 2 years	Apr-Oct	2 days	2	50			Boom truck	0	0	0	Boom truck	300	2	50%	5						Contractor	1 radial gate, assume 1/2 day / gate
Intake 3	Sac	Radial gates	Host cable and motor replacement	Every 15 years	Apr-Oct	4 days	2	50			Boom truck	0	0	0	Boom truck	300	4	50%	5						Contractor	4 radial gates, assume 1 day / gate
Intake 3	Sac	Radial gates	Refurbishment, recast and cathodic protection	Every 30 years	Apr-Oct	84 days	2	50			Boom truck	4	1	50	Boom truck	300	4	80%	8						Contractor	4 radial gates x 10th (21 days) / gate. Install and remove bulkheads.
Intake 3	Sac	Radial gates	Refurbishment, recast and cathodic protection	Every 30 years	Apr-Oct	84 days	1	50			Flat bed truck	4	1	50	Flat bed truck	380	4	80%	8						Contractor	1 radial gates x 10th (21 days) / gate. Install and remove bulkheads.
Intake 3	Sac	Radial gates	Refurbishment, recast and cathodic protection	Every 30 years	Apr-Oct	84 days	1	50			Low loader	4	1	50	Forklift	74	4	80%	8						Contractor	4 radial gates x 10th (21 days) / gate. Install and remove bulkheads.
Intake 3	Sac	Radial gates	Refurbishment, recast and cathodic protection	Every 30 years	Apr-Oct	84 days	1	50			Truck mounted crane	4	1	50	Truck mounted crane	175	4	80%	8						Contractor	1 radial gates x 10th (21 days) / gate. Assume 1 day / gate to swap out
Intake 3	Sac	Site roads	Re-paving - Plane surface	Every 15 years	Apr-Oct	3 days	3	50			Low loader	2	1	50	Planer	801	3	100%	10						Contractor	12,714 LF
Intake 3	Sac	Site roads	Re-paving - Half away from site	Every 15 years	Apr-Oct	3 days	1	50			Head truck	3	102	48											Contractor	2,825 yds, 5,331 tons @ 18 tons/truck
Intake 3	Sac	Site roads	Re-paving - Deliver asphalt	Every 15 years	Apr-Oct	3 days	1	50			Asphalt delivery truck	3	102	50											Contractor	2,825 yds, 5,331 tons @ 18 tons/truck
Intake 3	Sac	Site roads	Re-paving - Lay paving	Every 15 years	Apr-Oct	3 days	3	50			Low loader	2	1	50	Power	225	3	100%	10						Contractor	
Intake 3	Sac	Site roads	Re-paving - Compact paving	Every 15 years	Apr-Oct	3 days	2	50			Low loader	2	1	50	Compactor	131	3	100%	10						Contractor	
Intake 5	Sac	Site roads	Sealing and coating	Every 2 years	Apr-Oct	40 hrs	4	56																	Contractor	
Intake 5	Sac	Site roads	Sealing	Every 2 years	Apr-Oct	16 hrs	2	56																	Contractor	
Intake 5	Sac	Domestic WW/Sepic System/Launchfield	Specialist testing	Every 5 years	Apr-Oct	8 hrs	2	56																	Contractor	
Intake 5	Sac	Electrical substation	Refurbishment	Every 4 years	Apr-Oct	1 day	2	56																	Contractor	
Intake 5	Sac	Gully Cane	Refurbishment	Every 4 years	Apr-Oct	2 days	4	56																	Contractor	Per CA OSHA.
Intake 5	Sac	Radial gates	Host cable re-lubricating	Every 2 years	Apr-Oct	2 days	2	56			Boom truck	2	0.5	4	Boom truck	300	2	50%	5						Contractor	1 radial gate, assume 1/2 day / gate
Intake 5	Sac	Radial gates	Host cable and motor replacement	Every 15 years	Apr-Oct	4 days	2	56			Boom truck	2	0.5	4	Boom truck	300	4	50%	5						Contractor	4 radial gates, assume 1 day / gate
Intake 5	Sac	Radial gates	Refurbishment, recast and cathodic protection	Every 30 years	Apr-Oct	84 days	2	56			Boom truck	4	1	56	Boom truck	300	4	80%	8						Contractor	4 radial gates x 10th (21 days) / gate. Install and remove bulkheads.
Intake 5	Sac	Radial gates	Refurbishment, recast and cathodic protection	Every 30 years	Apr-Oct	84 days	1	56			Flat bed truck	4	1	56	Flat bed truck	380	4	80%	8						Contractor	1 radial gates x 10th (21 days) / gate. Install and remove bulkheads.
Intake 5	Sac	Radial gates	Refurbishment, recast and cathodic protection	Every 30 years	Apr-Oct	84 days	1	56			Low loader	4	1	56	Forklift	74	4	80%	8						Contractor	4 radial gates x 10th (21 days) / gate. Install and remove bulkheads.
Intake 5	Sac	Radial gates	Refurbishment, recast and cathodic protection	Every 30 years	Apr-Oct	84 days	1	56			Truck mounted crane	4	1	56	Truck mounted crane	175	4	80%	8						Contractor	1 radial gates x 10th (21 days) / gate. Assume 1 day / gate to swap out
Intake 5	Sac	Site roads	Re-paving - Plane surface	Every 15 years	Apr-Oct	3 days	3	56			Low loader	2	1	56	Planer	801	3	100%	10						Contractor	12,877 LF
Intake 5	Sac	Site roads	Re-paving - Half away from site	Every 15 years	Apr-Oct	3 days	1	56			Head truck	3	104	52											Contractor	2,864 yds, 5,606 tons @ 18 tons/truck
Intake 5	Sac	Site roads	Re-paving - Deliver asphalt	Every 15 years	Apr-Oct	3 days	1	56			Asphalt delivery truck	3	104	50											Contractor	2,864 yds, 5,606 tons @ 18 tons/truck
Intake 5	Sac	Site roads	Re-paving - Lay paving	Every 15 years	Apr-Oct	3 days	3	56			Low loader	2	1	56	Power	225	3	100%	10						Contractor	
Intake 5	Sac	Site roads	Re-paving - Compact paving	Every 15 years	Apr-Oct	3 days	2	56			Low loader	2	1	56	Compactor	131	3	100%	10						Contractor	
Tunnels	AB	Structure	Inspection	Every 2 years	Apr-Oct	40 days	2	56																	Contractor	
Tunnels	AB	Structure	Dewatering and inspection - install stop logs	Every 10 years	Jul-Sep	1 day	2	56																	Contractor	1 day to install stop logs
Tunnels	AB	Structure	Dewatering and inspection - install stop logs and drain	Every 10 years	Jul-Sep	1 day	2	56																	Contractor	1 day to install stop logs
Tunnels	AB	Structure	Dewatering and inspection - lower and install equipment	Every 10 years	Jul-Sep	26 days	2	56																	Contractor	1 day to remove stop logs
Tunnels	AB	Structure	Dewatering and inspection - lower and install equipment	Every 10 years	Jul-Sep	26 days	2	56																	Contractor	2 days x13 shift sets, includes vehicle, lighting, ventilation etc.
Tunnels	AB	Structure	Dewatering and inspection - inspection	Every 10 years	Jul-Sep	40 days	2	56																	Contractor	2 days x13 shift sets, includes vehicle, lighting, ventilation etc.
Tunnels	AB	Structure	Dewatering and inspection - remove equipment	Every 10 years	Jul-Sep	26 days	2	56																	Contractor	2 days x13 shift sets, includes vehicle, lighting, ventilation etc.
Tunnels	AB	Structure	Dewatering and inspection - remove equipment	Every 10 years	Jul-Sep	26 days	2	56																	Contractor	2 days x13 shift sets, includes vehicle, lighting, ventilation etc.
Tunnels	AB	Structure	Dewatering and inspection - remove drain pumps	Every 10 years	Jul-Sep	3 days	2	56			</															

South Delta Pumping Plant	CC	Main Pump Motor (Pumping Plant Building)	General maintenance	Every 5 years	Any	10 days	2	104	Boom truck	1	1	104	Boom truck	300	1	50%	5	Contractor	100s. Main pumps, x1 per day
South Delta Pumping Plant	CC	Wet Well	Sediment removal - Install Pumps	Every 5 years	Jul-Sep	1 day	2	104	Sediment removal	1	1	104	Contractor					Contractor	
South Delta Pumping Plant	CC	Wet Well	Sediment removal - Pump out water	Every 5 years	Jul-Sep	3 days	1	104	Low loader	2	1	104	Pumps	121	3	50%	5	Contractor	
South Delta Pumping Plant	CC	Wet Well	Sediment removal - Excavate sediment	Every 5 years	Jul-Sep	3 days	5	104	Low loader	2	1	104	Boom truck	300	3	50%	5	Contractor	
South Delta Pumping Plant	CC	Wet Well	Sediment removal - Haul sediment to landfill	Every 5 years	Jul-Sep	1 day	2	104	Head truck (x2)	1	8	432					Contractor	Assume 2lbs. Trucks x 4 trips/truck/day	
South Delta Pumping Plant	CC	Wet Well	Sediment removal - Inspect wet well	Every 5 years	Jul-Sep	1 day	2	104	Concrete truck	5	4	104					Contractor	Assume performed by ROW	
South Delta Pumping Plant	CC	Wet Well	Concrete repair	Every 5 years	Jul-Sep	5 days	3	104									Contractor	Assume 4lbs. delivered/day for 5 days @ 30mph	
South Delta Pumping Plant	CC	Electrical substation	Specialist testing	Every 4 years	Any	1 day	2	104									Contractor	Per CA OSHA	
South Delta Pumping Plant	CC	Bridge Crane (Pumping Plant Building)	Recertification	Every 4 years	Apr-Oct	2 days	4	104									Contractor	Per CA OSHA	
South Delta Pumping Plant	CC	Bridge Crane Mechanical Storage Building)	Recertification	Every 4 years	Apr-Oct	2 days	4	104									Contractor	Per CA OSHA	
South Delta Pumping Plant	CC	Maintenance Building Crane	Recertification	Every 4 years	Apr-Oct	2 days	4	104									Contractor	Per CA OSHA	
Southern Forebay	CC	Reservoir	Bathymetric survey	Every 5 years	Apr-Oct	5 days	2	104	Boat				Boat	350	5	20%	2	Contractor	1 boat pilot + 1 surveyor
Southern Forebay	CC	Reservoir	Sediment removal - (drawdown, regrading)	Every 10 years	Jul-Sep	20 days	4	104	Dredge	2	1	104	Contractor	400	20	100%	10	Contractor	
Southern Forebay	CC	Reservoir	Sediment removal - (drawdown, regrading)	Every 10 years	Jul-Sep	20 days	4	104	Low loader	2	2	104	Bulldozer (Bargi) (x2)	217	20	80%	8	Contractor	x2 Bulldozers
Southern Forebay	CC	Reservoir	Sediment removal - (drawdown, regrading)	Every 10 years	Jul-Sep	20 days	4	104	Low loader	2	2	104	Motor grader (x2)	139	20	80%	8	Contractor	x2 Motor graders
Southern Forebay	CC	Reservoir	Sediment removal - (drawdown, regrading)	Every 10 years	Jul-Sep	20 days	4	104	Low loader	2	2	104	Compactor (x2)	131	20	80%	8	Contractor	x2 Compactors
Southern Forebay	CC	Reservoir	Sediment removal - (drawdown, regrading)	Every 10 years	Jul-Sep	20 days	4	104	Low loader	2	1	104	Wheel loader (compact)	73	20	80%	8	Contractor	To load spills into trucks
Southern Forebay	CC	Reservoir	Sediment removal - (drawdown, regrading)	Every 10 years	Jul-Sep	20 days	2	104	Head truck	2	1	104					Contractor	Mixing sediment to create dirt pile	
Southern Forebay	CC	Spillway	Surface repair	Every 2 years	Apr-Oct	5 days	4	104									Contractor		
Southern Forebay	CC	Site roads	Repaving - Plane surface	Every 15 years	Apr-Oct	5.5 days	3	104	Low loader	2	1	104	Planner	801	5.5	100%	10	Contractor	12,409 LF
Southern Forebay	CC	Site roads	Repaving - Haul away from site	Every 15 years	Apr-Oct	5.5 days	1	104	Head truck	5.5	164	164					Contractor	8,313 yds, 16,273 tons @18 ton/truck	
Southern Forebay	CC	Site roads	Repaving - Deliver asphalt	Every 15 years	Apr-Oct	5.5 days	1	104	Asphalt delivery truck	5.5	164	104					Contractor	8,313 yds, 16,273 tons @18 ton/truck	
Southern Forebay	CC	Site roads	Repaving - Lay paving	Every 15 years	Apr-Oct	5.5 days	3	104	Low loader	2	1	104	Paver	225	5.5	100%	10	Contractor	
Southern Forebay	CC	Site roads	Repaving - Compact paving	Every 15 years	Apr-Oct	5.5 days	2	104	Low loader	2	1	104	Compactor	131	5.5	100%	10	Contractor	
Southern Forebay Outlet Structure	CC	Gantry Crane	Recertification	Every 4 years	Apr-Oct	2 days	4	104	Boom truck	2	1	104	Boom truck	300	2	20%	2	Contractor	Per CA OSHA
South Delta Outlet and Control Structure	CC	Radiat gases	Host cable rebalancing	Every 2 years	Apr-Oct	5 days	2	10	Boom truck	5	1	10	Boom truck	300	5	80%	8	DWR	10 radial gases, assume 1/2 day / gate
South Delta Outlet and Control Structure	CC	Radiat gases	Host cable and motor replacement	Every 15 years	Apr-Oct	10 days	2	10	Boom truck	10	1	10	Boom truck	300	10	80%	8	DWR	10 radial gases, assume 1 day / gate
South Delta Outlet and Control Structure	CC	Radiat gases	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	210 days	2	108	Boom truck	10	1	108	Boom truck	300	10	80%	8	Contractor	10 radial gases x 1mth (21 days) / gate. Install and remove bulkheads.
South Delta Outlet and Control Structure	CC	Radiat gases	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	210 days	1	108	Flat bed truck	10	1	108	Flat bed truck	380	10	80%	8	Contractor	10 radial gases x 1mth (21 days) / gate. Install and remove bulkheads.
South Delta Outlet and Control Structure	CC	Radiat gases	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	210 days	1	108	Low loader	10	1	108	Forklift	74	10	80%	8	Contractor	10 radial gases x 1mth (21 days) / gate. Install and remove bulkheads.
South Delta Outlet and Control Structure	CC	Radiat gases	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	210 days	3	108	Truck mounted crane	10	1	108	Truck mounted crane	175	10	80%	8	Contractor	10 radial gases x 1mth (21 days) / gate. Assume 1 day / gate to swap out
South Delta Outlet and Control Structure	CC	Structure	Survey	Every 2 years	Apr-Oct	1 day	2	108									Contractor		
Southern Connections	CC	Site roads	Repaving - Plane surface	Every 15 years	Apr-Oct	2.5 days	3	108	Low loader	2	1	104	Planner	801	2.5	100%	10	Contractor	8,006 LF
Southern Connections	CC	Site roads	Repaving - Haul away from site	Every 15 years	Apr-Oct	2.5 days	1	108	Head truck	2.5	77	14					Contractor	1,779 yds, 1,483 tons @18 tons/truck	
Southern Connections	CC	Site roads	Repaving - Deliver asphalt	Every 15 years	Apr-Oct	2.5 days	1	108	Asphalt delivery truck	2.5	77	104					Contractor	1,779 yds, 1,483 tons @18 tons/truck	
Southern Connections	CC	Site roads	Repaving - Lay paving	Every 15 years	Apr-Oct	2.5 days	3	108	Low loader	2	1	104	Paver	225	2.5	100%	10	Contractor	
Southern Connections	CC	Site roads	Repaving - Compact paving	Every 15 years	Apr-Oct	2.5 days	2	108	Low loader	2	1	104	Compactor	131	2.5	100%	10	Contractor	
Janes Control Structure	Ala	Radiat gases	Host cable rebalancing	Every 2 years	Apr-Oct	2 days	2	10	Boom truck	2	1	10	Boom truck	300	2	50%	5	DWR	4 radial gases, assume 1/2 day / gate
Janes Control Structure	Ala	Radiat gases	Host cable and motor replacement	Every 15 years	Apr-Oct	4 days	2	10	Boom truck	4	1	10	Boom truck	300	4	50%	5	DWR	4 radial gases, assume 1 day / gate
Janes Control Structure	Ala	Radiat gases	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	84 days	2	108	Boom truck	4	1	108	Boom truck	300	4	80%	8	Contractor	4 radial gases x 1mth (21 days) / gate. Install and remove bulkheads.
Janes Control Structure	Ala	Radiat gases	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	84 days	1	108	Flat bed truck	4	1	108	Flat bed truck	380	4	80%	8	Contractor	4 radial gases x 1mth (21 days) / gate. Install and remove bulkheads.
Janes Control Structure	Ala	Radiat gases	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	84 days	3	108	Low loader	4	1	108	Forklift	74	4	80%	8	Contractor	4 radial gases x 1mth (21 days) / gate. Install and remove bulkheads.
Janes Control Structure	Ala	Structure	Survey	Every 2 years	Apr-Oct	1 day	2	108	Truck mounted crane	4	1	108	Truck mounted crane	175	4	80%	8	Contractor	4 radial gases x 1mth (21 days) / gate. Assume 1 day / gate to swap out
California Aqueduct Control Structure	Ala	Radiat gases	Host cable rebalancing	Every 2 years	Apr-Oct	3 days	2	10	Boom truck	3	1	10	Boom truck	300	3	50%	5	DWR	6 radial gases, assume 1/2 day / gate
California Aqueduct Control Structure	Ala	Radiat gases	Host cable and motor replacement	Every 15 years	Apr-Oct	6 days	2	10	Boom truck	6	1	10	Boom truck	300	6	50%	5	DWR	6 radial gases, assume 1 day / gate
California Aqueduct Control Structure	Ala	Radiat gases	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	126 days	2	108	Boom truck	6	1	108	Boom truck	300	6	80%	8	Contractor	6 radial gases x 1mth (21 days) / gate. Install and remove bulkheads.
California Aqueduct Control Structure	Ala	Radiat gases	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	126 days	1	108	Flat bed truck	6	1	108	Flat bed truck	380	6	80%	8	Contractor	6 radial gases x 1mth (21 days) / gate. Install and remove bulkheads.
California Aqueduct Control Structure	Ala	Radiat gases	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	126 days	3	108	Low loader	6	1	108	Forklift	74	6	80%	8	Contractor	6 radial gases x 1mth (21 days) / gate. Install and remove bulkheads.
California Aqueduct Control Structure	Ala	Structure	Survey	Every 2 years	Apr-Oct	1 day	2	108	Truck mounted crane	6	1	108	Truck mounted crane	175	6	80%	8	Contractor	6 radial gases x 1mth (21 days) / gate. Assume 1 day / gate to swap out
Delta Mendota Canal Control Structure	Ala	Radiat gases	Host cable rebalancing	Every 2 years	Apr-Oct	1.5 days	2	8	Boom truck	2	1	16	Boom truck	300	1.5	50%	5	DWR	3 radial gases, assume 1/2 day / gate
Delta Mendota Canal Control Structure	Ala	Radiat gases	Host cable and motor replacement	Every 15 years	Apr-Oct	3 days	2	8	Boom truck	3	1	16	Boom truck	300	3	50%	5	DWR	3 radial gases, assume 1 day / gate
Delta Mendota Canal Control Structure	Ala	Radiat gases	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	63 days	2	58	Boom truck	3	1	58	Boom truck	300	3	80%	8	Contractor	3 radial gases x 1mth (21 days) / gate. Install and remove bulkheads.
Delta Mendota Canal Control Structure	Ala	Radiat gases	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	63 days	1	58	Flat bed truck	3	1	58	Flat bed truck	380	3	80%	8	Contractor	3 radial gases x 1mth (21 days) / gate. Install and remove bulkheads.
Delta Mendota Canal Control Structure	Ala	Radiat gases	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	63 days	1	58	Low loader	3	1	58	Forklift	74	3	80%	8	Contractor	3 radial gases x 1mth (21 days) / gate. Install and remove bulkheads.
Delta Mendota Canal Control Structure	Ala	Structure	Survey	Every 10 years	Apr-Oct	63 days	3	58	Truck mounted crane	3	1	58	Truck mounted crane	175	3	80%	8	Contractor	3 radial gases x 1mth (21 days) / gate. Assume 1 day / gate to swap out
Delta Mendota Canal Connection	Ala	Site roads	Repaving - Plane surface	Every 2 years	Apr-Oct	1 day	2	58	Low loader	2	1	58	Planner	801	2.5	100%	10	Contractor	4,355 LF
Delta Mendota Canal Connection	Ala	Site roads	Repaving - Haul away from site	Every 15 years	Apr-Oct	2.5 days	1	58	Head truck	2.5	62	44					Contractor	1,412 yds, 2,764 tons @18 ton/truck	
Delta Mendota Canal Connection	Ala	Site roads	Repaving - Deliver asphalt	Every 15 years	Apr-Oct	2.5 days	1	58	Asphalt delivery truck	2.5	62	58					Contractor	1,412 yds, 2,764 tons @18 ton/truck	
Delta Mendota Canal Connection	Ala	Site roads	Repaving - Lay paving	Every 15 years	Apr-Oct	2.5 days	3	58	Low loader	2	1	58	Paver	225	2.5	100%	10	Contractor	
Delta Mendota Canal Connection	Ala	Site roads	Repaving - Compact paving	Every 15 years	Apr-Oct	2.5 days	2	58	Low loader	2	1	58	Compactor	131	2.5	100%	10	Contractor	

APPENDIX I – ATTACHMENT 3

Project Design Capacity 3,000 cfs

FINAL DRAFT

Operations and Maintenance Activities (Draft)

Eastern Corridor 3,000 cfs Project Design Capacity (DWR EIR Alternative 4b) - Draft 06/29/2021
This tab summarizes daily O&M activities for Delta Conveyance.

Site	County	Structure / Equipment	Occurrences				Employees		Light Duty Trucks		Heavy Duty Trucks				Other Equipment					Excavation (% / Day)	Generators			Responsible Party	Notes		
			Activity	Frequency	Season	Duration	Number per day	Round trip miles per day	Activity days	Round trip per day	Round trip miles	Type	Activity days	Round trip per day	Round trip miles	Type	Incinerator	Activity Days	Utilization		Operating Hours per day	Miles/Day (Impound Depth - Avg)	No. of generators			Engine Type	Daily Hours / Generator
Intake 5	Sac	Whole site	Inspection / security check	Daily	All	4 hrs	2	44																		DWR	
Twin Cities Launch Shaft	Sac	Whole site	Inspection / security check	Daily	All	1 hr	2	64																		DWR	
New Hope Maintenance Shaft (Eastern)	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	72																		DWR	
Canal Ranch Maintenance Shaft	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	78																		DWR	
Terminus Tract Reception Shaft	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	90																		DWR	
King Island Maintenance Shaft	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	96																		DWR	
Lower Roberts Island Launch and Reception Shaft	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	52																		DWR	
Upper Jones Tract Maintenance Shaft	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	74																		DWR	
Byron Tract Maintenance Shaft	CC	Whole site	Inspection / security check	Daily	All	1 hr	2	26																		DWR	
Southern Forebay Launch Shaft (North)	CC	Whole site	Inspection / security check	Daily	All	1 hr	2	28																		DWR	
Southern Forebay Launch Shaft (South)	CC	Whole site	Inspection / security check	Daily	All	1 hr	3	14																		DWR	
CA Aqueduct Reception Shaft	CC	Whole site	Inspection / security check	Daily	All	1 hr	2	10																		DWR	
South Delta Pumping Plant	CC	Whole site	Inspection / security check	Daily	All	2 hrs	2	14																		DWR	Including electrical substation
Southern Forebay	CC	Whole site	Inspection / security check	Daily	All	2 hrs	2	14																		DWR	
South Delta Outlet and Control Structure	CC	Whole site	Inspection / security check	Daily	All	1 hr	2	10																		DWR	
Sacramento Control Centre	Sac	Whole system	Operations overnight	Daily	All	1 day	3	30																		DWR	2 x 8hr shifts in 24hrs
Delta Field Division Control Centre	Ala	Whole system	Operations overnight	Daily	All	1 day	3	30																		DWR	2 x 8hr shifts in 24hrs

Operations and Maintenance Activities (Draft)

Eastern Corridor 3,000 cfs Project Design Capacity (DWR EIR Alternative 4b) - Draft 06/29/2021
This tab summarizes weekly and bi-weekly O&M activities for Delta Conveyance.

			Occurrences										Other Equipment										Generators								
Site	County	Structure / Equipment	Activity	Frequency	Season	Duration	Number per day	Round trip miles per day	Activity days	Round trip per day	Round trip miles	Type	Activity days	Round trips per day	Round trip miles	Type	Harvester	Activity Days	Utilization	Operating hours per day	Miles/Day (assumed length of haul)	Excavator (CY / HR)	No. of generators	Transformer	Engine HP	Daily Hours / Generator	Annual Hours / Generator	Responsible Party	Notes		
Intake S South Delta Pumping Plant South Delta Pumping Plant Southern Forebay Southern Forebay Southern Forebay Outlet Structure South Delta Outlet and Control Structure Intake S South Delta Pumping Plant	Sac	Electrical equipment (general)	Inspection and testing	Weekly	All	4 hrs	2	44																					DWR		
		Office, locker room and restroom	Janitorial service	Weekly	All	4 hrs	2	44																						DWR	
		Surge Tanks	Inspection	Weekly	All	2 hrs	2	14																						DWR	
		Shops and offices	Janitorial service	Weekly	All	4 hrs	2	14																						DWR	
		Embankments	Observation well measurements	Weekly	All	4 hrs	2	14																						DWR	
		Embankments	Inspection	Weekly	All	1 day	2	14																						DWR	
		Electrical system	Inspection and maintenance	Weekly	All	4 hrs	2	14																						DWR	
		Electrical system	Inspection and maintenance	Weekly	All	4 hrs	2	30																						DWR	
		Electrical substation	Test operability	Bi-weekly	All	4 hrs	2	14																						Contractor	DWR

Eastern Corridor 3,000 cfs Project Design Capacity (DWR EIR Alternative 4b) - Draft 06/29/2021
This tab summarizes monthly O&M activities for Delta Conveyance.

			Occurrence				Employees				Light Duty Trucks				Heavy Duty Trucks				Other Equipment				Generators							Responsible Party
Site	County	Structure / Equipment	Activity	Frequency	Season	Duration	Number per day	Hours min per day	Actual days	Rest trip per day	Round trip miles	Type	Actual days	Hours trip per day	Round trip miles	Type	Fuelconsumption	Actual Days	Utilization	Operating hours per day	Mileage (assumed) / Mph	Excavation (cu yd) / depth	No. of generators	horsepower	Engine Type	Volts/kvohr Generator	Annual Hours/Generator	Notes		
Intake 5	Sac	Intake screens	Test operability	Monthly	All	1 day	2	44																			DWR	x2 generators tested for 1/2hr each every month. Tier assumed.		
Intake 5	Sac	Standby generators	Test operability	Monthly	All	1 hr	2	48															2	50	4	1	6	DWR		
South Delta Pumping Plant	CC	Medium Voltage Transformers(Electrical Building)	Inspection	Monthly	All	1 day	2	14																			DWR			
South Delta Pumping Plant	CC	Siphon/Air Release Valves (Pumping Plant)	Inspection	Monthly	All	1 day	2	14																			DWR	\$50k, Value, x1hr/yels		
South Delta Pumping Plant	CC	Electric generator (Generator Building)	General maintenance and testing	Monthly	All	9 hrs	2	14																			DWR			
South Delta Pumping Plant	CC	Check valves	Inspection and maintenance	Monthly	All	2 hrs	2	14																			DWR			
Southern Forebay	CC	Emergency Outlet	Test operability	Monthly	All	2 hrs	2	14																			DWR			
Southern Forebay	CC	Emergency Outlet Standby Generators	Test operability	Monthly	All	1 hr	2	104																			DWR			
Southern Forebay Outlet Structure	CC	Truck racks	Cleaning	Monthly	All	1 day	2	14																			DWR	Assumed hp and runtime. Tier assumed.		
South Delta Outlet and Control Structure	CC	Generator	Test operability and inspection	Monthly	All	1 hr	2	104				Low loader		1	1	14	Backhoe	68	1	80%	8		1	50	4	1	12	Contractor DWR	Assumed hp and runtime. Tier assumed.	

Operations and Maintenance Activities (Draft)

Eastern Corridor 3,000 cfs Project Design Capacity (DWR EIR Alternative 4b) - Draft 06/29/2021
This tab summarizes quarterly O&M activities for Delta Conveyance.

			Occurrences																			Employees	Light Duty Trucks		Heavy Duty Trucks				Other Equipment										Generators					
Site	County	Structure / Equipment	Activity	Frequency	Season	Duration	Number per day	Round trip miles per day	Activity days	Round trip miles per day	Round trip miles	Type	Activity days	Round trip miles per day	Round trip miles	Type	Hours per week	Activity Days	Utilization	Operating hours per day	Miles/day (assumed length of haul)	Excavation (cu yd / day)	No. of generators	Hours per generator	Daily Hours / Generator	Annual Hours / Generator	Responsible Party	Notes																
South Delta Pumping Plant	CC	DX Air Handler (Electrical Building)	General maintenance	Quarterly	All	5 days	2	14																		DWR	2 Nos. DX Air Handlers, x1 day each																	
South Delta Pumping Plant	CC	Ventilation Equipment (Generator Building)	General maintenance	Quarterly	All	4 hrs	2	14																		DWR																		
South Delta Pumping Plant	CC	HVAC Equipment (Mechanical Storage Building)	General maintenance	Quarterly	All	8 hrs	2	14																		DWR																		
South Delta Pumping Plant	CC	HVAC Equipment (Mechanical Storage Building)	Maintenance	Quarterly	All	8 hrs	2	14																		DWR																		
Southern Forebay	CC	Embankments	Animal burrow filling	Quarterly	All	2 days	2	14	2	1	14						Rammer/compactor	5.5	2	80%	8					DWR	2 laborers																	
Southern Forebay	CC	Embankments	Weed management/herbicide application	Quarterly	All	3 days	2	14																		DWR	1 truck driver + 1 herbicide applicator																	

Eastern Corridor 3,000 cfs Project Design Capacity (DWR EIR Alternative 4b) - Draft 06/29/2021
This tab summarizes bi-annual O&M activities for Delta Conveyance.

[illegible]

Eastern Corridor 3,000 cfs Project Design Capacity (DWR EIR Alternative 4b) - Draft 06/29/2022

[illegible]

This tab summarizes long term O&M activities for Delta Conveyance.

Location			Employee			Light Duty Trade			Heavy Duty Trade			Other Equipment			Comments			Responsible Person												
Site	County	Structure / Equipment	Activity	Frequency	Season	Duration	Number per day	Round trip miles per day	Activity	Round trip miles per day	Activity	Round trip miles per day	Type	Activity	Round trip miles per day	Round trip miles per day	Type	Round trip miles per day	Activity	Round trip miles per day	Utilization	Operating hours per day	Mileage (per day)	Execution (per day)	No. of personnel	Personnel	Engine	Daily hours	Annual hours	Responsible Person
Intake 5	Sac	Sac	Sealing and casting	Every 2 years	Apr-Oct	40 hrs	4	56																						Contractor
Intake 5	Sac	Sac	Stripping	Every 2 years	Apr-Oct	16 hrs	4	56																						Contractor
Intake 5	Sac	Sac	Clearing/Cleaning	Every 5 years	Apr-Oct	8 hrs	2	56																						Contractor
Intake 5	Sac	Sac	Electrical substation	Every 4 years	Apr-Oct	1 day	2	56																						Contractor
Intake 5	Sac	Sac	Gasification	Every 4 years	Apr-Oct	2 days	2	56																						Contractor
Intake 5	Sac	Sac	Hot cable rehabilitation	Every 2 years	Apr-Oct	2 days	2	56																						Contractor
Intake 5	Sac	Sac	Radial gates	Every 15 years	Apr-Oct	84 days	1	56																						Contractor
Intake 5	Sac	Sac	Radial gates	Refurbishment, recast and cathodic protection	Every 30 years	Apr-Oct	84 days	2	56																					Contractor
Intake 5	Sac	Sac	Radial gates	Refurbishment, recast and cathodic protection	Every 30 years	Apr-Oct	84 days	2	56																					Contractor
Intake 5	Sac	Sac	Radial gates	Refurbishment, recast and cathodic protection	Every 30 years	Apr-Oct	84 days	3	56																					Contractor
Intake 5	Sac	Sac	Radial gates	Refurbishment, recast and cathodic protection	Every 30 years	Apr-Oct	84 days	3	56																					Contractor
Intake 5	Sac	Sac	Radial gates	Refurbishment, recast and cathodic protection	Every 30 years	Apr-Oct	84 days	3	56																					Contractor
Intake 5	Sac	Sac	Radial gates	Refurbishment, recast and cathodic protection	Every 30 years	Apr-Oct	84 days	3	56																					Contractor
Intake 5	Sac	Sac	Radial gates	Refurbishment, recast and cathodic protection	Every 30 years	Apr-Oct	84 days	3	56																					Contractor
Intake 5	Sac	Sac	Radial gates	Refurbishment, recast and cathodic protection	Every 30 years	Apr-Oct	84 days	3	56																					Contractor
Intake 5	Sac	Sac	Radial gates	Refurbishment, recast and cathodic protection	Every 30 years	Apr-Oct	84 days	3	56																					Contractor
Intake 5	Sac	Sac	Radial gates	Refurbishment, recast and cathodic protection	Every 30 years	Apr-Oct	84 days	3	56																					Contractor
Intake 5	Sac	Sac	Radial gates	Refurbishment, recast and cathodic protection	Every 30 years	Apr-Oct	84 days	3	56																					Contractor
Intake 5	Sac	Sac	Radial gates	Refurbishment, recast and cathodic protection	Every 30 years	Apr-Oct	84 days	3	56																					Contractor
Intake 5	Sac	Sac	Radial gates	Refurbishment, recast and cathodic protection	Every 30 years	Apr-Oct	84 days	3	56																					Contractor
Intake 5	Sac	Sac	Radial gates	Refurbishment, recast and cathodic protection	Every 30 years	Apr-Oct	84 days	3	56																					Contractor
Intake 5	Sac	Sac	Radial gates	Refurbishment, recast and cathodic protection	Every 30 years	Apr-Oct	84 days	3	56																					Contractor
Intake 5	Sac	Sac	Radial gates	Refurbishment, recast and cathodic protection	Every 30 years	Apr-Oct																								

Southern Connections	CC	Site roads	Repaving - Plane surface	Every 15 years	Apr-Oct	2.5 days	3	108
Southern Connections	CC	Site roads	Repaving - Haul away from site	Every 15 years	Apr-Oct	2.5 days	1	108
Southern Connections	CC	Site roads	Repaving - Deliver asphalt	Every 15 years	Apr-Oct	2.5 days	1	108
Southern Connections	CC	Site roads	Repaving - Lay paving	Every 15 years	Apr-Oct	2.5 days	3	108
Southern Connections	CC	Site roads	Repaving - Compact paving	Every 15 years	Apr-Oct	2.5 days	2	108
California Aqueduct Control Structure	Ala	Radial gates	Hoist cable rebalancing	Every 2 years	Apr-Oct	3 days	2	10
California Aqueduct Control Structure	Ala	Radial gates	Hoist cable and motor replacement	Every 15 years	Apr-Oct	6 days	2	10
California Aqueduct Control Structure	Ala	Radial gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	126 days	2	108
California Aqueduct Control Structure	Ala	Radial gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	126 days	1	108
California Aqueduct Control Structure	Ala	Radial gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	126 days	1	108
California Aqueduct Control Structure	Ala	Radial gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	126 days	3	108
California Aqueduct Control Structure	Ala	Structure	Survey	Every 2 years	Apr-Oct	1 day	2	108

Low loader	2	1	104	Planner	801	2.5	100%	10
Head truck	2.5	77	154					
Asphalt delivery truck	2.5	77	104					
Low loader	2	1	104	Paver	225	2.5	100%	10
Low loader	2	1	104	Compactor	151	2.5	100%	10
Boom truck	3	1	10	Boom truck	300	3	50%	5
Boom truck	6	1	10	Boom truck	300	6	50%	5
Boom truck	6	1	108	Boom truck	300	6	80%	8
Flat bed truck	6	1	108	Flat bed truck	380	6	80%	8
Low loader	6	1	108	Foghorn	14	6	80%	8
Truck mounted crane	6	1	108	Truck mounted crane	175	6	80%	8

Contractor	6,006 LF	
Contractor	1,779 yd ³ , 3,483 tons @ 18 tons/truck	
Contractor	1,779 yd ³ , 3,483 tons @ 18 tons/truck	
Contractor		
DWR	6 radial gates, assume 1/2 day / gate	
DWR	6 radial gates, assume 1 day / gate	
Contractor	6 radial gates x 1 smth (21 days) / gate. Install and remove bulkheads.	
Contractor	6 radial gates x 1 smth (21 days) / gate. Install and remove bulkheads.	
Contractor	6 radial gates x 1 smth (21 days) / gate. Install and remove bulkheads.	
Contractor	6 radial gates x 1 smth (21 days) / gate. Assume 1 day / gate to swap out	

APPENDIX I – ATTACHMENT 4

Project Design Capacity 4,500 cfs

FINAL DRAFT

Operations and Maintenance Activities (Draft)

Eastern Corridor 4,500 cfs Project Design Capacity (DWR EIR Alternative 4c) - Draft 06/29/2021
This tab summarizes daily O&M activities for Delta Conveyance.

			Occurrences					Employees		Light Duty Trucks		Heavy Duty Trucks				Other Equipment					Generators							
Site	County	Structure / Equipment	Activity	Frequency	Season	Duration	Number per day	Round trip miles per day	Activity days	Round trip miles per day	Type	Activity days	Round trip miles per day	Round trip miles	Type	Hours/operation	Activity Date	Utilisation	Operating hours per day	Miles/day (assumed length of haul)	Operation (\$ / day)	No. of generators	Hours/operation	Engine Power	Daily Hours / Generator	Annual Hours / Generator	Responsible Party	Notes
Intake 3	Sac	Whole site	Inspection / security check	Daily	All	4 hrs	2	42																		DWR		
Intake 5	Sac	Whole site	Inspection / security check	Daily	All	4 hrs	2	44																		DWR		
Twin Cities Launch Shaft	Sac	Whole site	Inspection / security check	Daily	All	1 hr	2	64																		DWR		
New Hope Maintenance Shaft (Eastam)	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	72																		DWR		
Canal Ranch Maintenance Shaft	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	78																		DWR		
Terminous Tract Reception Shaft	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	90																		DWR		
King Island Maintenance Shaft	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	96																		DWR		
Lower Roberts Island Launch and Reception Shaft	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	52																		DWR		
Upper Jones Tract Maintenance Shaft	SJ	Whole site	Inspection / security check	Daily	All	1 hr	2	74																		DWR		
Byron Tract Maintenance Shaft	CC	Whole site	Inspection / security check	Daily	All	1 hr	2	26																		DWR		
Southern Forebay Launch Shaft (North)	CC	Whole site	Inspection / security check	Daily	All	1 hr	2	26																		DWR		
Southern Forebay Launch Shaft (South)	CC	Whole site	Inspection / security check	Daily	All	1 hr	2	14																		DWR		
CA Aqueduct Reception Shaft	CC	Whole site	Inspection / security check	Daily	All	1 hr	2	10																		DWR		
South Delta Pumping Plant	CC	Whole site	Inspection / security check	Daily	All	2 hrs	2	14																		DWR	including electrical substation	
Southern Forebay	CC	Whole site	Inspection / security check	Daily	All	2 hrs	2	14																		DWR		
South Delta Outfall and Control Structure	CC	Whole site	Inspection / security check	Daily	All	1 hr	2	10																		DWR		
Sacramento Control Centre	Sac	Whole system	Operations oversight	Daily	All	1 day	3	10																		DWR	3 x 8hr shifts in 24hrs	
Delta Field Division Control Centre	Ala	Whole system	Operations oversight	Daily	All	1 day	3	30																		DWR	3 x 8hr shifts in 24hrs	

This tab summarizes weekly and bi-weekly O&M activities for Delta Conveyance.

[illegible]

Operations and Maintenance Activities (Draft)

Eastern Corridor 4,500 cfs Project Design Capacity (DWR EIR Alternative 4c) - Draft 06/29/2021
This tab summarizes monthly O&M activities for Delta Conveyance.

Site	County	Structures / Equipment	Occurrences				Employees		Light Duty Trucks		Heavy Duty Trucks		Other Equipment										Excavator (\$/ Day)	No. of generators	Horsepower +	Engine Size / Generator	Daily Hours / Generator	Annual Hours / Generator	Responsible Party	Notes																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
			Activity	Frequency	Season	Duration	Number per day	Round trip miles per day	Activity days	Round trip per day	Round trip miles	Type	Activity days	Round trips per day	Round trip miles	Type	Inc response	Activity Days	Utilization	Operating hours per day	Miles/day (assumed length of haul)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Intake 3	Sac	Intake screens	Test operability	Monthly	All	1 day	2	42																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	</

Operations and Maintenance Activities (Draft)

Eastern Corridor 4,500 cfs Project Design Capacity (DWR EIR Alternative 4c) - Draft 06/29/2021
This tab summarizes quarterly O&M activities for Delta Conveyance.

			Occurrences										Employees			Light Duty Trucks			Heavy Duty Trucks					Other Equipment							Generators					Responsible Party	Notes
Site	County	Structure / Equipment	Activity	Frequency	Season	Duration	Number per day	Round trip miles per day	Activity days	Round trip miles per day	Round trip miles	Type	Activity days	Round trip miles per day	Round trip miles	Type	Hours/week	Activity Days	Utilization	Operating Hours per day	Miles/Day (assumed Depth)	Excavation (CY / Day)	No. of generators	Hours per generator	Engine Size	Daily Hours / Generator	Annual Hours / Generator										
South Delta Pumping Plant	CC	DX Air Handler (Electrical Building)	General maintenance	Quarterly	All	5 days	2	14																				DWR	2 Nos. DX Air Handlers, x1 day each								
South Delta Pumping Plant	CC	Ventilation Equipment (Generator Building)	General maintenance	Quarterly	All	4 hrs	2	14																				DWR									
South Delta Pumping Plant	CC	HVAC Equipment (Mechanical Storage Building)	General maintenance	Quarterly	All	8 hrs	2	14																				DWR									
South Delta Pumping Plant	CC	HVAC Equipment (Mechanical Storage Building)	Maintenance	Quarterly	All	8 hrs	2	14																				DWR									
Southern Forebay	CC	Embankments	Animal burrow filling	Quarterly	All	2 days	2	14	2	1	14						Rammer compactor	5.5	2	80%	8							DWR	2 laborers 1 truck driver + 1 herbicide applicator								
Southern Forebay	CC	Embankments	Weed management/herbicide application	Quarterly	All	3 days	2	14																				DWR									

Eastern Corridor 4,500 cfs Project Design Capacity (DWR EIR Alternative 4c) - Draft 06/29/2021
This tab summarizes bi-annual O&M activities for Delta Conveyance.

Location		Occurrence		Employees		Night Duty Tasks				Heavy Duty Tasks				Other Equipment				Generators				Responsible Party	Notes			
Site	County	Structure / Equipment	Activity	Frequency	Season	Duration	Number per day	Required min per day	Activity days	Amount days per week	Hours per week	Type	Activity days	Amount days per week	Hours per week	Type	Amount per day	Activity Days	Utilization	Operating hours per day	Minimum amount per day			Maximum amount per day	No. of operators	Amount per day
Intake 3		Intake screens	Pressure wash	Bi-annually	Apr/Oct	15 days	2	42				Boom truck	0	0	0	Boom truck	300	15	80%	8	DWR	15days = 300x screens at 2/day, 1 boom operator + 1 other				
Intake 4		Intake screens	Pressure wash	Bi-annually	Apr/Oct	15 days	2	42		1	50					Pressure washer	400	15	80%	8	DWR	15days = 300x screens at 2/day, 1 pickup truck driver/pressure washer operator + 1 other				
Intake 5		Roller gates	Test operability	Bi-annually	Apr/Oct	5 days	2	1	50							Mower	26	5	80%	8	DWR	1 gate/screen, 8ft tall, 10/10m to 1st raise, 45m/45m @ 2m min + 10m demo = 10 gates/day, 4 days = 90 gates at 10 gates/day.				
Intake 5		Roller gates	Ground maintenance	Bi-annually	Apr/Oct	5 days	2	1	50							Mower	26	5	80%	8	DWR					
Intake 5		Whole site	Ground maintenance	Bi-annually	Apr/Oct	5 days	1	42		1	50					Pressure washer	14	5	80%	8	DWR					
Intake 5		Intake screens	Pressure wash	Bi-annually	Apr/Oct	7.5 days	2	44				Boom truck	2	0.5	4	Boom truck	300	7.5	80%	8	DWR	7.5days = 150x screens at 2/day, 1 boom operator + 1 other				
Intake 5		Intake screens	Pressure wash	Bi-annually	Apr/Oct	7.5 days	2	44								Pressure washer	14	7.5	50%	5	DWR	7.5days = 150x screens at 2/day, 1 pickup truck driver/pressure washer operator + 1 other				
Intake 5		Roller gates	Test operability	Bi-annually	Apr/Oct	4.5 days	2	44								Mower	26	5	80%	8	DWR	1 gate/screen, 8ft tall, 10/10m to 1st raise, 45m/45m @ 2m min + 10m demo = 10 gates/day, 4.5 days = 45 gates at 10 gates/day.				
Intake 5		Whole site	Ground maintenance	Bi-annually	Apr/Oct	5 days	1	44		1	56					Pressure washer	14	5	80%	8	DWR					
Intake 5		Whole site	Ground maintenance	Bi-annually	Apr/Oct	5 days	1	44		1	56					Mower	26	5	80%	8	DWR					
Pat's Cities Launch Shaft		Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	64		1	64					Pressure washer	14	2	80%	8	DWR					
Pat's Cities Launch Shaft		Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	64		1	64					Pressure washer	14	2	80%	8	DWR					
Pat's Cities Launch Shaft		RTM Storage	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	64		1	64					Mower	26	2	80%	8	DWR					
New Hope Maintenance Shaft (Eastern)		Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	72		1	72					Pressure washer	14	2	80%	8	DWR					
New Hope Maintenance Shaft (Eastern)		Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	72		1	72					Mower	26	2	80%	8	DWR					
New Hope Maintenance Shaft (Eastern)		Small Ranch Maintenance Shaft	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	78		1	78					Pressure washer	14	2	80%	8	DWR					
Canal Ranch Maintenance Shaft		Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	78		1	78					Mower	26	2	80%	8	DWR					
Terminous Tract Reception Shaft		Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	90		1	90					Pressure washer	14	2	80%	8	DWR					
Terminous Tract Reception Shaft		Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	90		1	90					Mower	26	2	80%	8	DWR					
Blizzard Mountain Shaft		Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	96		1	96					Pressure washer	14	2	80%	8	DWR					
Lower Roberts Island Launch and Reception Shaft		Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	52		1	52					Mower	26	2	80%	8	DWR					
Lower Roberts Island Launch and Reception Shaft		Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	52		1	52					Pressure washer	14	2	80%	8	DWR					
Lower Roberts Island Launch and Reception Shaft		RTM Storage	Ground maintenance	Bi-annually	Apr/Oct	5 days	2	52		1	52					Mower	26	5	80%	8	DWR					
Upper Jones Tract Maintenance Shaft		Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	74		1	74					Pressure washer	14	2	80%	8	DWR					
Upper Jones Tract Maintenance Shaft		Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	74		1	74					Pressure washer	14	2	80%	8	DWR					
Ryan Tract Maintenance Shaft		Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	26		1	26					Mower	26	2	80%	8	DWR					
Ryan Tract Maintenance Shaft		Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	26		1	26					Pressure washer	14	2	80%	8	DWR					
Southern Forebay Launch Shaft (North)		Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	28		1	28					Mower	26	2	80%	8	DWR					
Southern Forebay Launch Shaft (North)		Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	28		1	28					Pressure washer	14	2	80%	8	DWR					
Southern Forebay Launch Shaft (North and South)		RTM Storage	Ground maintenance	Bi-annually	Apr/Oct	5 days	2	28		1	28					Mower	26	5	80%	8	DWR					
Southern Forebay Launch Shaft (South)		Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Pressure washer	14	2	80%	8	DWR					
Southern Forebay Launch Shaft (South)		Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Pressure washer	14	2	80%	8	DWR					
CA Aqueduct Reception Shaft		Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	10		1	10					Mower	26	5	80%	8	DWR					
South Delta Pumping Plant		Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	5	80%	8	DWR					
South Delta Pumping Plant		Whole site	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Pressure washer	14	2	80%	8	DWR					
South Delta Pumping Plant		Vegetation system (Pumping Plant Building)	General maintenance	Any	1 day																					
South Delta Pumping Plant		Vegetation system (Pumping Plant Building)	General maintenance	Bi-annually	Oct-Mar	8 hrs	2	14																		
South Delta Pumping Plant		Discharge Basin in Forebay (Pumping Plant Building)	General maintenance	Bi-annually	Apr/Oct	2 days	1	14																		
South Delta Pumping Plant		HVAC Equipment (Pumping Plant Building)	General maintenance	Bi-annually	May/Nov	24 hrs	2	14																		
Southern Forebay		Embankments	Ground maintenance	Bi-annually	Apr/Oct	5 days	1	14		2	1	14				Mower	26	5	80%	8	DWR					
Southern Forebay		Embankments/Spillway	Ground maintenance	Bi-annually	Apr/Oct	5 days	2	14		1	14					Pressure washer	14	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower	26	2	80%	8	DWR					
Southern Forebay		Embankment	Ground maintenance	Bi-annually	Apr/Oct	2 days	1	14		1	14					Mower										

Eastern Corridor 4,500 cfs Project Design Capacity (DWR EIR Alternative 4c) - Draft 06/29/2023
This tab summarizes annual ORM activities for Delta Conveyance

Eastern Corridor 4,500 cfs Project Design Capacity (DWR EIR Alternative 4c) - Draft 06/29/2023
This tab summarizes annual ORM activities for Delta Conversion.

[illegible]

This tab summarizes long term O&M activities for Delta Conveyance.

Southern Forebay	CC Reservoir	Bathymetric survey	Every 5 years	Apr-Oct	5 days	2	104			Boat	150	5	20%	2			
Southern Forebay	CC Reservoir	Sediment removal - (drawdown, regrading)	Every 10 years	JUL-Sept	20 days	2	104		Low loader	2	1	104	Dredge	400	20	100%	10
Southern Forebay	CC Reservoir	Sediment removal - (drawdown, regrading)	Every 10 years	JUL-Sept	20 days	4	104		Low loader	2	2	104	Bulkhead (Cargo #x2)	217	20	80%	8
Southern Forebay	CC Reservoir	Sediment removal - (drawdown, regrading)	Every 10 years	JUL-Sept	20 days	2	104		Low loader	2	104	Motor grader (#x2)	69	20	80%	8	
Southern Forebay	CC Reservoir	Sediment removal - (drawdown, regrading)	Every 10 years	JUL-Sept	20 days	4	104		Low loader	2	2	104	Compactor (#x2)	131	20	80%	8

Southern Forebay	CC	Reservoir	Sediment removal - (drawdown, regrading)	Every 10 years	Jul-Sept	20 days	2	104
Southern Forebay	CC	Reservoir	Sediment removal - (drawdown, regrading)	Every 10 years	Jul-Sept	20 days	2	104
Southern Forebay	CC	Spillway	Surface repair	Every 2 years	Apr-Oct	5 days	4	104
Southern Forebay	CC	Site roads	Repaving - Plane surface	Every 15 years	Apr-Oct	5.5 days	3	104
Southern Forebay	CC	Site roads	Repaving - Haul away from site	Every 15 years	Apr-Oct	5.5 days	1	104
Southern Forebay	CC	Site roads	Repaving - Deliver asphalt	Every 15 years	Apr-Oct	5.5 days	1	104
Southern Forebay	CC	Site roads	Repaving - Lay paving	Every 15 years	Apr-Oct	5.5 days	3	104
Southern Forebay	CC	Site roads	Repaving - Compact paving	Every 15 years	Apr-Oct	5.5 days	2	104
Southern Forebay Outlet Structure	CC	Gantry Crane	Recertification	Every 4 years	Apr-Oct	2 days	4	104
South Delta Outlet and Control Structure	CC	Radiat gates	Hoist cable rebalancing	Every 2 years	Apr-Oct	5 days	2	10
South Delta Outlet and Control Structure	CC	Radiat gates	Hoist cable and motor replacement	Every 15 years	Apr-Oct	10 days	2	10
South Delta Outlet and Control Structure	CC	Radiat gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	210 days	2	108
South Delta Outlet and Control Structure	CC	Radiat gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	210 days	1	108
South Delta Outlet and Control Structure	CC	Radiat gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	210 days	1	108
South Delta Outlet and Control Structure	CC	Radiat gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	210 days	3	108
South Delta Outlet and Control Structure	CC	Structure	Survey	Every 2 years	Apr-Oct	1 day	2	108
Southern Connections	CC	Site roads	Repaving - Plane surface	Every 15 years	Apr-Oct	2.5 days	3	108
Southern Connections	CC	Site roads	Repaving - Haul away from site	Every 15 years	Apr-Oct	2.5 days	1	108
Southern Connections	CC	Site roads	Repaving - Deliver asphalt	Every 15 years	Apr-Oct	2.5 days	1	108
Southern Connections	CC	Site roads	Repaving - Lay paving	Every 15 years	Apr-Oct	2.5 days	3	108
Southern Connections	CC	Site roads	Repaving - Compact paving	Every 15 years	Apr-Oct	2.5 days	2	108
California Aqueduct Control Structure	Ala	Radiat gates	Hoist cable rebalancing	Every 2 years	Apr-Oct	3 days	2	10
California Aqueduct Control Structure	Ala	Radiat gates	Hoist cable and motor replacement	Every 15 years	Apr-Oct	6 days	2	10
California Aqueduct Control Structure	Ala	Radiat gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	126 days	2	108
California Aqueduct Control Structure	Ala	Radiat gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	126 days	1	108
California Aqueduct Control Structure	Ala	Radiat gates	Refurbishment, recoat and cathodic protection	Every 30 years	Apr-Oct	126 days	3	108
California Aqueduct Control Structure	Ala	Structure	Survey	Every 2 years	Apr-Oct	1 day	2	108

Low loader	2	1	104	Wheel loader (compact)	73	20	80%	8
Haul truck	2	1	104	Planer	216	20	80%	8
Low loader	2	1	104		801	5.5	100%	10
Haul truck	5.5	164	14					
Asphalt delivery truck	5.5	164	104					
Low loader	2	1	104	Planer	225	2.5	100%	10
Low loader	2	1	104	Compactor	131	5.5	100%	10
Boom truck	2	1	104	Boom truck	300	2	20%	2
Boom truck	5	1	10	Boom truck	300	5	80%	8
Boom truck	10	1	10	Boom truck	300	10	80%	8
Boom truck	10	1	108	Boom truck	300	10	80%	8
Flat bed truck	10	1	108	Flat bed truck	380	10	80%	8
Low loader	10	1	108	Forklift	74	10	80%	8
Truck mounted crane	10	1	108	Truck mounted crane	175	10	80%	8
Low loader	2	1	104	Planer	801	2.5	100%	10
Haul truck	2.5	77	14					
Asphalt delivery truck	2.5	77	104					
Low loader	2	1	104	Planer	225	2.5	100%	10
Low loader	2	1	104	Compactor	131	2.5	100%	10
Boom truck	3	1	10	Boom truck	300	3	50%	5
Boom truck	6	1	10	Boom truck	300	6	50%	5
Boom truck	6	1	108	Boom truck	300	6	80%	8
Flat bed truck	6	1	108	Flat bed truck	380	6	80%	8
Low loader	6	1	108	Forklift	74	6	80%	8
Truck mounted crane	6	1	108	Truck mounted crane	175	6	80%	8

Contractor	to load spoils into trucks
Contractor	blowing sediment to onsite dirt pile
Contractor	
Contractor	17,400 LF
Contractor	8,313 yds, 16,273 tons @18 tons/truck
Contractor	8,313 yds, 16,273 tons @18 tons/truck
Contractor	Per CA OSHA
DWR	10 radial gates, assume 1/2 day / gate
DWR	10 radial gates, assume 1 day / gate
Contractor	10 radial gates x 1mth (21 days) / gate. Install and remove bulkheads.
Contractor	10 radial gates x 1mth (21 days) / gate. Install and remove bulkheads.
Contractor	10 radial gates x 1mth (21 days) / gate. Install and remove bulkheads.
Contractor	10 radial gates x 1mth (21 days) / gate. Assume 1 day / gate to swap out
Contractor	
Contractor	4,006 LF
Contractor	1,779 yds, 3,483 tons @18 tons/truck
Contractor	1,779 yds, 3,483 tons @18 tons/truck
Contractor	
DWR	6 radial gates, assume 1/2 day / gate
DWR	6 radial gates, assume 1 day / gate
Contractor	6 radial gates x 1mth (21 days) / gate. Install and remove bulkheads.
Contractor	6 radial gates x 1mth (21 days) / gate. Install and remove bulkheads.
Contractor	6 radial gates x 1mth (21 days) / gate. Install and remove bulkheads.
Contractor	6 radial gates x 1mth (21 days) / gate. Assume 1 day / gate to swap out