

## **Stakeholder Engagement Committee Meeting**

### Meeting Agenda

1	Welcome/Call to Order	
2	Roll Call/Housekeeping	
3	Minutes Review: September 23, 2020 Regular SEC Meeting	
4	Technical Presentations	
4a.	Deferred SEC Questions	
4b.	Bethany Reservoir Alternative Update	
4c.	DWR Update	
4d.	SEC Questions or Comments on September 23rd Meeting Presentation	
4e.	Public Comment on Item 4	
5.	Future Agenda Items	
6	Non-Agendized SEC Comments or Questions	
7	Public Comment on Non-Agendized Items	-

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## Item 3.

# Minutes Review: September 23, 2020

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## **Regular SEC Meeting**

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## **Technical Presentations**

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**Deferred SEC Questions** 

**Questions from Previous SEC Meeting** 

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**Bethany Update** 

DWR Update

**Public Comment** 

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## **Deferred SEC Questions**

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### **Deferred SEC Questions**

- **1.** Coordination with Port of Stockton Sustainability
- 2. Site Renders Package
- 3. Site Water Management During Construction
- 4. Air Quality Emissions at Construction Sites
- 5. Post Construction Intakes Operations Truck Traffic
- 6. Total Power Requirements and Power Line Corridors
- 7. Impact on Existing Train Traffic Loads and Idling in South Stockton

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8. Emergency Response Plan - Construction

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- 9. RTM Environmental Data
- 10. DCA Seismic Studies
- 11. Twin Cities Stockpile Use for Uplands Foraging Habitat

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### 1. Coordination with Port of Stockton - Sustainability

Q: The Delta Conveyance program needs to work together with the Port of Stockton to help it become a "clean" Port. Community Benefit opportunities to help the Port become a model of a Sustainable Port should be considered.

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## DCA will Partner with the Port of Stockton -Identify Opportunities for Synergy



Delta Environmental Enhancement Program

### **DEEP** Plan

The Port's Delta Environmental Enhancement Program which aims to enhance air quality, water quality, and wildlife habitats in the Delta and surrounding communities

- Air Quality Program
- Water Quality Program

Port of Stockton

ALIFORNIA

- Ballast Water Management Program •
- Barn Owl Nest Box Program
- Bat Roosting Box Program
  - Antioch Dunes Project

https://www.portofstockton.com/environment/

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### 2. Site Renders Package

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*Q*: What features will be left behind at each site? How visible will these facilities be from freeways and other local roads?

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## **Project Booklets**

### **Graphic Material Provided to Date:**

- Site Plans Construction
- Site Plans Post-Construction
- Site Photos
- Logistics Routes

### New Render Book:

- Intakes
- Launch Shaft Site
- Maintenance Shaft Site
- South Delta Pumping Plant
- Southern Forebay Complex





### NORTHERN SITES





### Intake - Typical



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## Twin Cities Launch Shaft Site (Typical)



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### Terminous Reception Shaft (Typical)



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## Pumping Plant



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## South Delta Pumping Plant

Electrical Substation

Electrical Building

**Pumping Plant** 

Equipment Storage & Shops

Pump Station Inlet and Overflow Structure

## Southern Forebay

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### Southern Forebay Complex



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### 3. Site Water Management During Construction

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Q: How will water be managed on the construction sites, particularly stormwater? Will the existing sloughs be used as a source of water or point of discharge?

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## Water Balance Goals

**Overall Goal: Avoid reductions in surface water and groundwater supplies** 

Maximize use of on-site water supplies to reduce discharge of stormwater and minimize need for other supplies

- Limit on-site surface water use to historical diversions
- Limit on-site groundwater use to regional groundwater use/acre
- ✓ Maximize use of recycled wastewater
- ✓ Minimize use of water from public water supplies

#### 3. SITE WATER MANAGEMENT

### Water Uses and Sources at Construction Sites









### Major Water Demands

- Construction site dust control
- Water to mix soil and cement to stabilize ground
- Moisture for soil compaction
- Water to mix with cement/bentonite to create slurry wall structures
- Water injected at tunnel head to loosen soil
- Water to make concrete at the Batch Plants
- Tire Wash Basins at exit locations

### **Potential Water Sources**

- Dewatering flows from excavations
- Existing surface water diversions (not to exceed historical diversions)
- Site runoff from storm events
- Groundwater wells (not to exceed regional diversion rates)
- Recycled water from nearby wastewater treatment plants
- Public water agency supplies

3. SITE WATER MANAGEMENT

# Example: Water Demands for Smaller Sites (e.g., Reception/Maintenance Shafts) would be from Local Recycled Water, especially in Summer Months

Potential Water Demand New Hope Shaft - Central



**Potential Water Supplies New Hope Shaft - Central** 



# Example: Water Demands for Parcels with Existing Water Rights would also Use Site Runoff in Winter to Reduce Stormwater Discharges



Potential Water Supplies Southern Complex on Byron Tract



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### 4. Air Quality Emissions During Construction

*Q*: *Please include Air Quality as a future topic of discussion.* 

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### 4. AIR QUALITY

## Site Air Quality Impacts - The Basics

### **DCA** Assumptions & Inputs

- If electric equipment is currently available, it was assumed that electric equipment would be used
- Non-electric equipment includes Tier 4 diesel engines if currently available
- Created list of non-electric equipment operating hours for each site
- Operating hours per construction schedules
- Major non-electric equipment includes:
  - Excavators Grout Graders
  - Dozers Facilities Pumps
  - Loaders Asphalt Cranes
  - Rollers Pavers Forklifts
  - Compactors Generators Welders

### DWR – EIR Impact Analysis

- Use Air Quality Models to quantify emissions
- Compare to background air quality and thresholds
- If needed, identify mitigation measures
  - > Alternative Fuels
- > Minimize Vehicle Miles
- > Vehicles Retrofits
- > Purchase Offset Measures



#### 4. AIR QUALITY

## **Relative On-Site Non-Electric Equipment Construction Use**





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### 5. Post Construction Operations -Solids Hauling at Intakes

Q: Please identify post-construction traffic and noise levels at the construction sites, in particular the intake sites?

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#### 5. INTAKES SOLIDS HAULING



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### 5. INTAKES SOLIDS HAULING

## Intakes Solids Hauling - Post Construction

- Solids pumped from Sedimentation Basin to Drying Beds once per year during summer
- Anticipate 10 to 20 weeks each year to pump, dry, and haul solids off-site for disposal
- Total Solids Generated dependent upon:
  - Solids Loads in River
  - Total Volume Diverted (0 to 3,000 cfs per intake)
- Anticipate 2 to 10 trucks per hour (one way) to haul solids off site based on range of potential scenarios



### 6. Total Power Requirements and Power Line Corridors

Q: What are the total power requirements at the sites and how will power be brought to these sites? Will any renewable energy be built as part of the project?

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### **Total Power Requirements and Power Line Corridors**

FACILITY	CONSTRUCTION	ΡΕΓΜΑΝΕΝΤ
Capacity (cfs) 6000	Load (kVA)	Load (kVA)
Intakes	8,000	4000
Batch Plants	4,000	-
Twin Cities Dual Launch Shaft and RTM Drying	62,000	<50
Bouldin Launch and Reception Shaft	29,000	<50
Lower Roberts Launch and Reception Shaft	29,000	<50
Maintenance/Reception Shafts (except Bacon Is)	1,000 (5,000)	<50
Southern Complex and Pumping Plant	71,100	122,000
South Delta Conveyance Facilities	2,000	2,000

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#### 6. POWER REQUIREMENTS

### Proposed Power 1 of 3

ΚΕΥ

Underground

**Overhead – Ex. Corridor** 



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### 6. POWER REQUIREMENTS

### Proposed Power 2 of 3 CENTRAL ALTERNATIVE KEY SITES **Terminous Tract** Underground **Reception Shaft Overhead – Ex. Corridor** EASTERN **Bouldin Island** ALTERNATIVE Launch Shaft SITES **King Island** Tunnel **Maintenance Shaft** Alignment Mandeville Island Maintenance Shaft **Lower Roberts Island** Eastern Alternati Launch/ Reception Shaft al Alternative **Bacon Island** Reception Shaft 5

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### 6. POWER REQUIREMENTS

### **Proposed Power 3 of 3**

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Underground

Overhead – Ex. Corridor

**Overhead – New Corridor** 



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### 7. Existing Train Traffic Loads and Idling In South Stockton

Q: There are current issues with air pollution from idling trains in South Stockton. What train traffic with the DCA add to this area and how can the DCA help reduce this issue?

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7. TRAIN IMPACTS IN SOUTH STOCKTON

# Existing Train Traffic Loads and Idling In South Stockton

- No data on rail idling in South Stockton is available
- BNSF Stockton: ~20 freight services per day & ~8 Amtrak trains/day
- DCA: ~2 weekly deliveries at Lower Roberts Island site (liners, bulk materials); ~2 trains/day to the Southern Complex site (liners, RTM, bulk materials).
- Trains will pull off main line onto site spur; drop-off ~ 20 40 railcar loads; locomotive will depart after drop-off. Minimal idling.
- On-site rail movement managed by DCA Contractor under DCA governed operating specifications.



### 8. Emergency Response Plan - Construction

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## **Emergency Response Plan During Construction**

Coordination with Emergency Response Agencies throughout the region to provide for the safety of those working on the project, without compromising community coverage.

Delta Conveyance Emergency Response Plan will conform to existing plans and regulations:

- Cal OSHA/Federal Tunneling Regulations
- general civil construction requirements
- DWR's Emergency Action Plan Requirements

The project would aim to:

- Enhance local emergency response capabilities
- Construct on-site facilities where needs cannot be adequately met with local facilities
- Augment or expand existing local emergency response agency facilities
- Leave a legacy in the way of equipment and training

## Emergency Response -Coordination Agencies

Fire District			
<b>Clarksburg Fire Protection District</b>	CL		
Cosumnes CSD Department	CSD		
Courtland Fire Department	CRT		
East Contra Costa Fire Protection District	ECC		
Isleton Fire Department	IFD		
Lodi Fire Department	LFD		
Montezuma Fire Protection District	MFPD		
River Delta Fire District	RDFD		
Thornton Rural Fire District	TRFD		
Tracy Fire Department	TFS		
Walnut Grove Fire Protection District	WGFPD		
Woodbridge Fire District	WFD		



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### 9. Soils Environmental Data - Year 1

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Q: While levels of constituents in the RTM may be consistent with background levels at the surface, some naturally occurring contaminants are at high levels in the background. This doesn't necessarily mean that the material will meet standards. How are you assessing this issue?

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### 9. SOILS ENVIRONMENTAL DATA

## Year 1 Testing Program

### Sample Depths:

- Background Surface Conditions 0 to 3 ft
- Shallow Excavation 0 to 10 ft; sites where soils excavated for use on project (e.g. intakes)
- Tunnel Depth 115 to 160 ft; representative of RTM

### **Constituents:**

• See table to right

### Schedule:

- Drilling from October through June;
- Results available ~ mid-Summer 2021

Analyte	Test Method
PAHs	• 8270SIM
Butyltins	Krone Method
Ammonia	• SM4500NH3
Nitrate/Nitrite	• SM4500NO3
Metals	• ICP/MS
Metals, individual tests	• ICP/MS
Soluble Metals	• 6020 (DI-WET)
Mercury	• 7471
Methyl Mercury	• 1631
Soluble Mercury, discrete testing	• 7471 (DI-WET)
Hexavalent Chromium	• 7196
Soluble Hex Chromium	• 7196
ТРН	• 8015M
<b>Organochlorine Pesticides &amp; PCBs</b>	• 8080
Herbicides	• 8151
VOCs	• 8260
Semi-VOCs	• 8270
Total Organic Carbon	Walkley-Black
Ag Testing including Boron	<ul> <li>Lab Standard Methods</li> </ul>
Salinity as Chloride	• CL- SM2520
рН	• 9045D

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9. SOILS ENVIRONMENTAL DATA

## Year 1 Soils Environmental Test Sites

Sample Type	Location
Background	Glanville
(0 to 3 ft)	Staten Island
	Bouldin Island
	Lower Roberts
Shallow	Intakes
(0 to 10 ft)	• Southern Complex – Byron Tract
Tunnel Depth	• Intakes
(115 to 160 ft)	Glanville
	Staten Island
	Lower Roberts
	• Southern Complex – Byron Tract



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### 10. DCA Seismic Study

Q: Please explain all work that is being done by the DCA related to Earthquake analysis.

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### 10. SEISMIC STUDIES

### **DCA Seismic Studies**

- DCA performing various studies and field and laboratory tests to assess seismic risks at each site. Examples include:
  - Seismic Cone Penetration Tests (SCPTs) examine propagation of ground motion from shaking
  - Downhole suspension logging
  - West Tracy Fault Studies
  - Laboratory Cyclic Shear Strength Testing liquefaction potential
- Analyses required by building codes and regulations for site specific responses
- Data used for design of project facilities to meet seismic criteria for foundations and physical structures including existing levees



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### 11. Twin Cities Stockpile -Potential for Uplands Habitat

*Q*: *Please consider post-construction rehabilitation of the Twin Cities site for uplands foraging habitat.* 

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11. TWIN CITIES - POST-CONSTRUCTION HABITAT

## Twin Cities Stockpile -Potential for Upland GSC Foraging Habitat

To create upland foraging habitat would require:

- 1. Deeper stripping to provide more native soil
- 2. Grade and level site to above recurring floodplain @ El. 19 ft
- 3. Spread amendments and cross rip
- 4. Spread topsoil and cross disc
- 5. Final grade and level
- 6. Construct irrigation (depending on crop type)
- Plant foraging crop (corn, winter wheat, pasture, alfalfa, or native grasses) - crop type selection could also support Swanson's hawk and white tail kite

Eastern/Central Upland Foraging: ~270 acres of RTM @ ~4-10 ft high

> Eastern/Central: ~100 acres of RTM @ ~20 ft high

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## Item 4b.

# Bethany Reservoir Alternative Update

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## **Bethany Update Topics**

- 1. Logistics plans to access each of the four main work sites
- 2. Review how the pipelines will be installed from the Pumping Plant to Bethany Reservoir

Lower Roberts Island Launch/ Reception Shaft

CA-4

Upper Jones Tract Maintenance Shaft

Union Island Maintenance Shaft

Bethany Reservoir Pumping Plant, Surge Basin and Reception Shaft

Bethany Reservoir

BETHANY

ALIGNMENT

Clifton Court Forebay CA-4

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#### 4C. BETHANY UPDATE - LOGISTICS

Logistics: Lower Roberts Island Launch Shaft Site Access Routes



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#### 4C. BETHANY UPDATE - LOGISTICS

Logistics: Upper Jones Maintenance Shaft Site Access Routes



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Logistics: Union Island Maintenance Shaft Site Access Routes



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#### 4C. BETHANY UPDATE - LOGISTICS

## Logistics: Bethany Complex



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### Bethany Reservoir Alternative Pipeline Route

Pumping Plant and Surge Basin

**Pipeline Route** 

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Tunnel Reaches

**Tunnel Portals** 

- Discharge Structure

**Bethany Reservoir** 

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## **Cross-Section of Construction Aqueduct Trench - Open Cut Reaches**

### Typical construction phase trench section for open cut reaches of pipeline alignment



- Four, 15-ft diameter steel pipes
  - ~ 140 to 160 ft wide trench
  - ~ 12 to 15 ft deep trench
- Backfill trench with soil cement and reuse of excavated trench material

- Space on each side of trench for:
  - Stockpile of excavated material
  - Pipe section laydown
  - Access roads
- Fully buried under roads

#### **BETHANY UPDATE - AQUEDUCT**

### **Construction Phase Profile of Tunnel Portal**



- Tunnel portal constructed to receive "cut and fill" pipes and launch tunneled pipe sections
- Portal about 200 ft long by 150 ft wide and 25 to 40 ft deep excavation
- Tunnel excavated with roadheader tunneling machine

- Sidewalls supported and stabilized during tunnel excavation
- 15 ft dia pipe installed in 30 ft sections welded on site / in situ
- Space between tunnel and pipe filled with grout



Roadheader tunneling machine

## Item 4c.

## **DWR Update**

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# Delta Conveyance Project: Environmental Review Update

Carrie Buckman Environmental Program Manager

CALIFORNIA DEPARTMENT OF WATER RESOURCES

## **Environmental Review Process**

Identify, analyze and disclose the potential significant adverse environmental impacts of a proposed project, and provide feasible mitigation measures and alternatives to avoid or reduce such effects.







# Environmental Planning Update

- California Environmental Quality Act (CEQA): work on existing conditions and analytical methods
- National Environmental Policy Act (NEPA): United States Army Corps of Engineers closed scoping on October 20 and received about 90 comment letters and emails
- Soil Investigations: field work under Initial Study/Mitigated Negative Declaration has started
- Community Benefits Program: DWR is preparing for a discussion of a Community Benefits Program concept at the December SEC meeting
- Environmental Justice Community Survey: survey open until the end of November

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## Item 4d.

# SEC Questions or Comments on September 23, 2020 Presentation

Key Agenda Items: Bethany Update – Siting Analysis

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Bethany Update – RTM Management

DWR Update – EJ Survey

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## ltem 4e.

## **Public Comment on Item 4**

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## Item 5.

# **Future SEC Topics**

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### Reminder - Original Charge of SEC (November 2019)

- 1. The DCA has a defined role in this Planning Phase that confines the areas of discussion within the SEC process.
- 2. The DCA endeavors to work collaboratively with the Delta Stakeholders to minimize the affects of construction of this project to the broader Delta community through engineering design, logistics optimization, and facility siting.
- 3. The byproduct of our engineering efforts and engagement with the Delta Community will be described in a DRAFT Concept Engineering Report to be delivered to DWR for their environmental review and assessment.
- 4. The case for the proposed project, the alternatives to be evaluated in the environmental documentation process, the flow and operating parameters of the proposed project, and the assessment of environmental impacts under the CEQA process, are all outside the purview of the DCA and thus outside the purview of this committee.

## SEC Schedule



### **Proposed future SEC Topics:**

- Continued update on Bethany Alternative
- Feedback on Community Benefits Program Framework
- Update on Geotech Studies

- Design Changes for Mitigations
  - Air Quality
  - Noise
  - Traffic

- Terrestrial Resources
- Agricultural Resources

## **December 9th SEC Meeting Topics**

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### Bethany Update

- Traffic Impacts & Mitigations
- Pump Station & Surge Basin

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- Bethany Reservoir Outlet Structure
- Introduction to Community Benefit Program Framework

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## Volunteers for SEC Report to DCA Board

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# Non-Agendized SEC Questions or Comments

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# Public Comment on Non-Agendized Items

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