Sites and EBMUD Meeting Agenda



Our Core Values – Safety, Trust and Integrity, Respect for Local Communities, Environmental Stewardship, Shared Responsibility and Shared Benefits, Accountability and Transparency, Proactive Innovation, Diversity and Inclusivity Our Commitment – To live up to these values in everything we do

Meeting Information:								
Date:	September 24, 2	021 Location:	Microsoft Teams					
Start Time:	9:00 a.m.	Finish Time:	11:00 a.m.					
Purpose: Current stat implication:		environmental planning for the ects to EBMUD resources and factors	Sites Reservoir Pro cilities	ject and possible				
Meeting Partie	cipants:							
Ben Bray, EBMU	D	Ali Forsythe, Sites Project	, Sites Project Jim Lecky, ICF					
Jose Setka, EBMUD		Mike Hendrick, ICF	Steve Micko, Jacobs					
Lena Tam, EBMUD		Erin Heydinger, HDR	John Spranza, HDR					
Michael Tognolini, EBMUD		Rob Leaf, Jacobs	Darren <mark>last nam</mark>	<mark>ame,</mark> MBK				
Michelle Workm	nan, EBMUD							
Agenda:								
Discussion Top	Dic	Topic Leader	Time Allotted					
1. Introduction	ons		Group	10 mins				
2. Meeting O	verview / Agenda F	Review	Ali	5 mins				
3. Project Ov	erview		Ali / Erin	20 mins				
a. Faciliti	es							
b. Opera	tions							
4. Modeling	Approach		Steve	10 mins				
5. Analysis Re	esults		Steve/Mike	20 mins				
a. Sacramento Changes in Lower River Flows								
b. Changes in Delta Flows and Salinity								
c. Aquatic Resources Evaluation								
6. RDEIR/SDE	IS Aquatic Impact I	Determinations	John / Mike	15 mins				
7. Planning a	nd Permitting Cons	Ali/John	15 mins					
a. Revise	vised Draft EIR/Supplemental Draft EIS							
b. Key Pe	ey Permits (ESA, CESA, water right application)							

8.	Additional Topics	Group	15 mins
9.	Action Items and Next Steps	Group	5 mins

Sites Project and EBMUD

September 22, 2021



Draft - Predecisional Working Document - For Discussion Purposes Only

Agenda

- 1. Introductions
- 2. Meeting Overview
- 3. Project Overview
 - a) Facilities
 - b) Operations
- 4. Modeling Approach
- 5. Analysis Results
- 6. RDEIR/SDEIS Aquatic Impact Determinations
- 7. Planning and Permitting Considerations/Schedule
- 8. Additional Topics
- 9. Action Items and Next Steps

Project Overview

Ali Forsythe/Erin Heydinger



What is the Sites Project?



Regional Area



Not to scale

Alt 1 – Authority's Preferred Project



Alt 1 – Authority's Preferred Project





- Junior diverter Diverting after all senior water rights and water quality and flow requirement are met
- Diverting during "excess conditions" (as determined by Reclamation and DWR)
- Diversion locations in priority:
 - Red Bluff Pumping Plant into the Tehama-Colusa Canal: 2,100 cfs for Sites
 - Hamilton City Pump Station into the GCID Main Canal: 1,800 cfs for Sites
- Diversions when Sacramento River not fully appropriated (September 1 to June 15)

Operations (cont.)

- Diversion Criteria
 - Wilkins Slough Bypass flow requirements:
 - 10,700 cfs March/April/May
 - 5,000 cfs all other months
 - Pulse flow protection
 - Fremont Weir Notch Protection
 - Objective is to limit changes to frequency and duration of spills

Operations (cont)

- Releases
 - TC Canal
 - GCID Canal
 - North Delta (Yolo Bypass)
 - South of Delta
- Exchanges
 - Reclamation
 - DWR
- Exports through the Delta



Diversions and Releases



Modeling Approach

Steve Micko



Modeling Approach

- Regulatory Environment

 2019 BiOps and 2020 SWP ITP
- Modeling Framework
 - CalSim II
 - Hydrodynamics
 - Water Temperature
 - Aquatics

Modeling Results

Steve Micko



Modeling Results - Diversions

• Diversions occur in Wet and Above Normal Years



Modeling Results - Releases

• Releases in Dry and Critically Dry years



Modeling Results – Sac River at Freeport



Modeling Results – X2



RDEIR/SDEIS Aquatic Impact Determinations

Mike Hendrick/John Spranza



Aquatic Resources Evaluation – Near-Field Effect Analysis

- Near-Field Effects Analysis associated with salmon, sturgeon:
 - Entrainment through screens (Red Bluff and Hamilton City intakes)
 - Screen Impingement
 - Predation (Red Bluff and Hamilton City intakes, at Dunnigan Pipeline (Alt 2))
 - Stranding behind screens
 - Attraction to Reservoir Discharge and Pipeline Entry (Alt 2)

- Winter-run
 Chinook salmon
- Spring-run Chinook salmon
- Fall-run/late fallrun Chinook salmon
- CCV steelhead
- White sturgeon
- Green Sturgeon
- Longfin smelt
- Delta smelt

Aquatic Resources Evaluation – Far-Field Effects Analysis

Far-Field Effects Analysis associated with salmon, sturgeon, and smelt:

- Temperature Effects (Sacramento, Feather, American (as appropriate))
- Flow-Related Effects
 - Redd Scour Entombment
 - Redd Dewatering
 - Spawning and Egg Incubation
 - Adult Migration and Holding
- Habitat Weighted Usable Area (Spawning, Rearing)
- Juvenile Stranding

- Winter-run Chinook salmon
- Spring-run Chinook salmon
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- White sturgeon
- Green Sturgeon
- Longfin smelt
- Delta smelt

Aquatic Resources Evaluation - Far-Field Effects Analysis (cont.)

Far-Field Effects Analysis associated with salmon, sturgeon, and smelt:

- Floodplain Inundation and Access
 - Yolo Bypass and Fremont Weir Spill Flow and Days of Yolo Bypass Inundation
 - Yolo Bypass Inundated Area
 - Sutter Bypass and Fremont Weir Spill Flow and Duration
 - Sutter Bypass Inundated Area
- Migration Flow-Survival
- Sites Reservoir Release Effects
 - Temperature Effects
 - Water Quality Effects

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 Chinook salmon
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Aquatic Resources Evaluation - Far-Field Effects Analysis (cont.)

Far-Field Effects Analysis associated with salmon, sturgeon, and smelt:

• Delta

- Juvenile Through-Delta Survival
- Juvenile Rearing Habitat
- South Delta Entrainment

- Winter-run
 Chinook salmon
- Spring-run Chinook salmon
- Fall-run/late fallrun Chinook salmon
- CCV steelhead
- White sturgeon
- Green Sturgeon
- Longfin smelt
- Delta smelt

CEQA Findings for Aquatic Biological Resources

 Based on analysis and discussions with agencies two areas of effect resulted in the need for mitigation associated with aquatic biological resources

Effect Area	Impacts Requiring Mitigation	Significant and Unavoidable Impacts		
Operations Effects on Winter-Run, Spring-Run, Fall-Run/Late Fall-Run Chinook Salmon and Central Valley Steelhead	All Alts – Implement Wilkins Slough Flow Protection Criteria whereby Project diversions would not occur from March through May of all water year types if flows in the Sacramento River at Wilkins Slough are below or would be reduced below 10,700 cubic feet per second	None		
Operations Effects on Delta Smelt	All Alts – Evaluate and prevent potential detrimental water temperature and dissolved oxygen effects to Delta Smelt associated with moving Colusa Basin Drain water through the Yolo Bypass by monitoring and ceasing flows through the Yolo Bypass if detrimental effects are projected to occur	None		

Planning & Permitting Considerations and Schedule

Ali Forsythe/John Spranza



Schedule Through 2030

- Current schedule of overall key project components
- Final EIR/EIS and ESA consultation with the agencies may lag slightly based on recent discussions focused on exchanges

Summary Schedule Timeline	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
EIR/EIS											
Permitting											
Mitigation Implementation											
Right of Way Acquisition											
Design Level Geotech & Survey											
Preliminary and Final Engineering											
Construction											
Commissioning											
Full Operations Begins											

Current Permit and Coordination Schedule



Additional Topics



Action Items and Next Steps



Thank you!

