

MINUTES ENGINEERING & OPERATIONS COMMITTEE MEETING

<u>Thursday, March 5, 2020, 9:00 A.M.</u> <u>Board Room</u> <u>UWCD, 1701 Lombard Street, Oxnard CA 93030</u>

COMMITTEE MEMBERS

Lynn E. Maulhardt, Chair Edwin T. McFadden III Daniel C. Naumann

STAFF ATTENDING

Mauricio E. Guardado Jr, General Manager Anthony Emmert, Assistant General Manager Robert C. Siemak, Assistant General Manager Dr. Maryam Bral, Chief Engineer Brian Collins, Operations and Maintenance Manager Josh Perez, Human Resource Manager Adrian Quiroz, Assistant Engineer Michel Kadah, Associate Engineer Craig Morgan, Senior Engineer Robert Richardson, Senior Engineer Evan Lashly, Associate Ecologist Tessa Lenz, Assistant Ecologist Randall McInvale, Assistant Ecologist Linda Purpus, Senior Environmental Scientist Zachary Plummer, IT Administrator Destiny Rubio, Administrative Assistant

Public Present

none

OPEN SESSION:

Chair Maulhardt called the Engineering & Operations Committee Meeting to order at 9:05 am.

1. Public Comment

Chair Maulhardt asked if there were any public comments for the Committee. None were offered.

Board of Directors Michael W. Mobley, President Bruce E. Dandy, Vice President Sheldon G. Berger, Secretary/Treasurer Patrick J. Kelley Lynn E. Maulhardt Edwin T. McFadden III Daniel C. Naumann

General Manager Mauricio E. Guardado, Jr.

Legal Counsel David D. Boyer UWCD Engineering and Operations Committee Meeting MINUTES March 5, 2020 Page 2

2. Approval of Minutes

Motion to approve the minutes from the July 2, 2019 Operations Committee meeting, Voice vote, three ayes (Maulhardt, McFadden, Naumann). None opposed. Minutes approved unanimously.

3. Amendment to Pleasant Valley County Water District's Water Delivery Agreement

Operations and Maintenance Manager Brian Collins provided updates and slides on UWCD's water delivery agreement with Pleasant Valley County Water District. He asked for the Committee's recommendation to the Board to authorize the General Manager to amend the current agreement with proposed language approved by the District's legal counsel. Discussion ensued among the committee members and staff.

The committee agreed to recommend the Board amend the current water delivery agreement with Pleasant Valley County Water District.

4. Santa Felicia Dam Safety Improvement Project Update

Chief Engineer Maryam Bral and Associate Engineer Michel Kadah provided updates and slides regarding the Santa Felicia Dam Safety Improvement Project. They asked for the Committee's recommendation to the Board to authorize the General Manager to approve the costs and enter into agreement with GEI Consultants for delivery of 30% Design. Discussion ensued among the committee members and staff.

The committee agreed to recommend the Board approve costs and authorize the General Manager to execute an agreement with GEI Consultants for 30% Design of the SFD Safety Improvement Project.

5. Operations and Maintenance Update

Mr. Collins provided updates and slides on the department's recent activities and projects.

6. Recreation Department Update

Assistant General Manager Robert C. Siemak provided updates and slides on the department's recent activities and projects.

7. Environmental Planning and Conservation Department Update

Senior Environmental Scientist Linda Purpus provided updates on the department's recent activities and projects.

8. Future Agenda Topics None were offered.

ADJOURNMENT 10:58 a.m.

Chair Maulhardt adjourned the Engineering & Operations Committee meeting at 10:58 am.

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I certify that the above is a true and correct copy of the minutes of the Engineering and Operations Committee Meeting of March δ , 2020.

ATTEST: 15 Lynn Maulhardt, Chair

ATTEST:

Destiny Rubio, Administrative Assistant



















10% Design of Outlet Works

Additional Design Items

- > Improvement to an Existing Access Road
- Installation of a new Electric Power Supply System
- > Abandonment of the Existing Outlet Works







10% Design of Spillway

- ≻ Hydraulic Analysis 2D and CFD
- > Spillway Condition Assessment
- > Downstream Channel Analysis
- > Seismic Analysis of Existing Spillway Walls
 - Counterfort Wall Sections
- Structural Evaluation of Wall Retrofit Options









Santa Felicia Dam Safety Improvement Project Progress

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BOC Meeting #4	•																							
10% Design of Spillway and Outlet Works																								
Drilling Program Plan Development																								
Subsurface Exploration																								
Supplemental Design of Spillway																								
30% Design of Outlet Works																								
BOC Meeting #5																	\blacklozenge							
FERC License Amendment Application Preparation & Submittal																								
NEPA Document Processing																								

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POTHOLE TRAILHEAD PARKING AREA PROJECT

Piru Canyon Road

Issues of ownership and maintenance resolved by 1974 Easement granted to Forest Service

Path Forward - Interim

Interim Improvements to be completed by March 31, 2020:

- > New Pothole Gate with Secure Lockbox
- > Portable Restroom and Hand Wash Station
- Six Road Hazard Signs on Piru Canyon Road
- Parking Area Boundary

Full Implementation

- Vaulted Restroom and Wildlife Trash Receptacle Gravel paved parking area
- Interpretative signage in collaboration with FS ADA Parking Space
- ➢ Horse hitch Rail
- > Trail Realignment (1.8 miles) if prop 68 funding granted





Timeline																																																		
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Design Considerations													
Feasibility Study (Draft)	Feasibility Study (Final)	GW Treatme Evalua (Kennedy	ent System ation //Jenks)	30% Design (Kennedy/Jenks)	90% Design (Kennedy/Jenks)								
Mar 10, 2016	Aug 11, 2016	May 24, 2018	June 29, 2018	Mar 1, 2019	Aug 27, 2019								
	 Improved Filter Loading Rate (3 to 6 gpm/sf) Decreased Filter Vessel Size 	 Reduced from 4 to 3 active horizontal filters Added Backwash Tank and Recycled Pump Station Added Waste Solids Manhole and Lift Station 	Considered change in treatment plant location	Changes: Reduced from 3 to 2 active horizontal filters Moved treatment plant location Increased Earthwork Increased Yard Piping Bolted steel tank in lieu of lined earth basins Concrete Encasement of Piping at Filters Electrical Supply Source Lab/Air Scour Building Size Increase Additions: Filter Drain Pump Station 	Additions: • Paving • Raw Bypass • Future Nitrate Treatment Connections Cost Increases: • Earthwork • CMU Building • Electrical, I&C • Tank & Piping • Yard Piping • Filter Drain Pump Station								



Next Steps

Complete 100% Design

- General Manager to approve Amendment No. 1 in the amount of \$158,000 with Kennedy/Jenks Consultants
- Complete potholing work at EI Rio WTP to avoid utility conflicts during construction
- > Staff will consider constructability review by independent consultant

> WCVC IRWMP Prop 1 Funding

> DWR is anticipated to announce awards in late spring or early fall 2020

≻ <u>NEPA</u>

> U.S. Bureau of Reclamation to complete NEPA process

> Bid Process and Construction

Advertise for bids as early as fall 2020 following DWR funding announcement

















































































Covered Species

- Fish
 - Southern California steelhead
 - Pacific lamprey
 - Santa Ana sucker
 - Tidewater goby
- Birds
 - Least Bell's vireo
 - Southwestern willow flycatcher
 - Yellow-billed cuckoo
 - Yellow warbler
 - <u>Yellow-breasted chat</u>
- Reptiles
 - Western pond turtle
 - Two-striped garter snake



Instream Flow Commitments

• Mimic the shape of the No Diversion hydrograph to the maximum extent practicable

- Provide instream flows according to several protocols to maximize biologically meaningful passage days to the maximum extent practicable
 - ----- For both interim (375 cfs) and future (750 cfs) diversions
 - Turn-in Rate Protocol
 - Adult Migration Variable Flow Protocol
 - Adult Migration Base Flow Protocol
 - Smolt Migration Protocol







