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ENGINEERING and OPERATIONS
COMMITTEE MEETING
MINUTES

Thursday, May 4, 2023, at 9:00 a.m.
UWCD Headquarters, First Floor, Board Room
1701 N. Lombard Street, Oxnard, CA 93030

COMMITTEE MEMBERS IN ATTENDANCE

Lynn E. Maulhardt, chair
Catherine P. Keeling, director
Daniel C. Naumann, director

STAFF IN ATTENDANCE

Mauricio Guardado, general manager
Anthony Emmert, assistant general manager
Dr. Maryam Bral, chief engineer
Marissa Caringella, environmental services manager
John Carman, operations and maintenance supervisor
Brian Collins, chief operations officer
Dan Detmer, water resources manager
Michel Kadah, engineer
John Lindquist, supervising hydrogeologist
Jackie Lozano, administrative assistant
Josh Perez, chief human resources officer
Zachary Plummer, technology systems manager
Ed Reese, technology systems specialist
Robert Richardson, senior engineer
Vanessa Vasquez, administrative assistant
Brian Zahn, chief financial officer

PUBLIC IN ATTENDANCE

One member of the public was in attendance.

Call to Order – Open Session

Chair Lynn Maulhardt called the committee meeting to order at 9:00 a.m. The clerk of the Committee called roll. All Committee members were present (Keeling, Maulhardt, Naumann).

1. Public Comments

Information Item

Chair Maulhardt asked for public comment. There were none offered.



2. Approval of Minutes

Motion

Motion to approve the minutes from April 6, 2023, Engineering and Operations Committee meeting, Director Keeling; Second, Chair Maulhardt. Voice vote: three ayes (Maulhardt, Keeling, Naumann); none opposed. Motion carries 3/0.

3. May 17, 2023, Board Meeting Motion Agenda Item

The Committee reviewed and discussed the following motion item for approval at the UWCD Board meeting on May 17, 2023. The Committee has formulated a recommendation to the entire Board based on its discussions with staff.

3.1 Authorize Approval of a Contract with GEI Consultants, Inc. To Develop the Final Design Phase of the Santa Felicia Dam Outlet Works Improvement Project, Prepare Final Bid Documents and Support Bid Phase

Chief Engineer Dr. Maryam Bral presented on motion item 3.1. Chair Maulhardt initiated a discussion on the mandates put in place by the government for dam safety improvements related to the work presented in motion item 3.1. The Committee concluded that presenting regulatory mandates to the public would provide a better understanding of how costs are incurred. Presenting these would provide transparency to the number of required mandates that the District is required to respond to.

The Committee members suggested providing a spreadsheet to summarize project costs in presentations. These spreadsheets should include not-to-exceed amounts, funding that offsets costs and a list of past, current and anticipated expenditures. Dr. Bral notified the Committee that the Engineering Department has been tracking expenditures for each project and will provide this when presenting to the Board.

The Committee were all in favor of recommending motion item 3.1 to the Board.

No further comments or questions offered. No comments or questions were offered by the public.

4. Monthly Department Updates

Information Item

The Committee received and reviewed the monthly reports from the Engineering, Environmental Services, and Operations and Maintenance Departments as well as received a verbal presentation of its highlights (presentations are attached).

4.1 Engineering Department Update

Dr. Bral presented department updates that covered the Santa Felicia Dam Safety Improvement Project, Iron and Manganese Treatment Facility and the Office of Local Defense Community Cooperation (OLDCC) Site Visit, Extraction Barrier and Brackish (EBB) Water Treatment Project status update and Public Outreach.



Director Naumann asked the status of the EBB project schedule referenced on slide six of the presentation. This led to further discussion on the Santa Felicia Dam Safety Improvement (SFD SIP) Project. Dr. Bral explained that the SFD SIP is currently on schedule with regard to design. However, that was different on the environmental front. The conversation continued discussing the National Marine Fisheries Service (NMFS) biological opinion regarding the construction for the spillway and outlet works. General Manager Mauricio Guardado asked Dr. Bral to make the Committee aware of certain project delays. Dr. Bral explained that the SFD SIP was scheduled to begin construction in July 2024 for the outlet works but due to extensive comments by NMFS, the construction may be delayed.

Chair Maulhardt asked Dr. Bral if she was content with the recent Functional Exercise (FE), especially in relation to her role as the chief engineer. Dr. Bral explained that she has made recommendations to the consultant to prevent the FE from going directly into dam failure in future training and to ensure adequate staff training on dam safety and emergency action plans to respond to such an event. She said she would like to see staff equally equipped to deal with such emergencies and these recommendations have been communicated with the consultant and have been included in After Action and Implementation Plan that was submitted to the Federal Energy Regulatory Commission (FERC).

Chair Maulhardt continued, discussing a number of challenges associated with NMFS obstructions and how this results in lost resources. Dr. Bral provided a background on the challenges associated with NMFS and potential impacts to the construction schedule for Santa Felicia Dam. As a legal requirement, staff are doing their due diligence to move forward with this project and delays are costly and could affect rates.

Dr. Bral continued, explaining that the OLDCC Staff recommended to invite the local legislators, (referencing slide three of the presentation) to the Iron and Manganese Facility Treatment Plant ribbon cutting ceremony and that the OLDCC Staff expressed interest in being present for the ribbon cutting currently scheduled for July 13. Mr. Guardado added that the benefit of such a project is putting public resources to good use and helping save rate payers money. The projects and outreach being done within the District serve the community at large and the goal is to influence better policy.

No further comments or questions. No comments or questions were offered by the public.

4.2 Environmental Services Department Update

Environmental Services Manager Marissa Caringella, presented on Freeman Diversion Operations and Fish Passage Facility, Increased Importation of Water from Pyramid Lake to Lake Piru, Santa Felicia Dam Fish Passage Pre-Implementation Study site access and Tour of the proposed EBB project locations at Naval Base Ventura County - Point Mugu.



Ms. Caringella thanked Water Resources and Engineering staff for their efforts relating to the tour of U.S. Navy Base Point Mugu associated with the EBB project. She also extended her gratitude for such efforts to the General Manager.

No further comments or questions were offered. No comments or questions were offered by the public.

4.3 Operations and Maintenance Department Update

Chief Operations Officer Brian Collins presented an overview of the Operations and Maintenance activities which included Lake Piru Spilling, Santa Felicia Dam Penstock Storm Cleanup and Grading, Saticoy Recharge Basins Generational Water Year, the Freeman Diversion Sediment Management, OH Delivery VFD Room Wire Pull/Shutdown and Post Chlorine Shutdown Gas Engine No. 4.

Director Nauman asked Mr. Collins about the hydroelectric system. Mr. Collins explained that that staff is currently hard at work on the hydroelectric plant. Mr. Collins reassured the Committee that staff will consider sediment impacts on the transducers and get the hydro plant at Santa Felicia Dam working again.

Chair Maulhardt added that the photos pictured in the presentation depict the complexities of diverting large amounts of water. These photos taken by John Carman depict the amount of work required to clear such massive amounts of silt.

Director Keeling suggested that staff highlight the maintenance operations associated with sediment to explain how this impacts the accumulation of water.

No further comments or questions from the Committee. No comments or questions were offered by the public.

5. Future Agenda Items

Chair Maulhardt polled the Committee members for any agenda items they would like to see at a future Committee meeting. None were offered.

ADJOURNMENT 10:26 a.m.

Chair Maulhardt adjourned the meeting at 10:26 a.m.

I certify that the above is a true and correct copy of the minutes of the Engineering and Operations Committee Meeting held on May 4, 2023.

ATTEST:


Chair Lynn E. Maulhardt

Motion Item 3.1

Authorize a Contract with GEI to Develop the Final Design Phase of the Santa Felicia Dam Outlet Works Improvement Project

❑ **Scope of Work:**

▪ Final Analyses and Design Document Development

▪ Updated Constructability Report and Engineering Cost Estimate

▪ Three-Dimensional Visualization

▪ O&M Manual

▪ Reservoir Operations Plan during Construction

▪ BOC Meeting No. 8 (November 2023)

▪ Design Potential Failure Modes Analysis (PFMA) Support - *Optional*

▪ Preparation of Construction Bid Documents - *Optional*


▪ Bid Phase Support – *Optional*

❑ **Contract Fee:**

▪ Final Design and Bid Support - \$867,980

❑ **Final Design Schedule:**

▪ July – November 2023




ATTACHMENT TO MEETING MINUTES UWCD
Engineering and Operations Committee Presentations

1

Motion Item 3.1

Authorize a Contract with GEI to Develop the Final Design Phase of the Santa Felicia Dam Outlet Works Improvement Project

Design Item	Cost to Date	Projected Future Cost
Pre-Design	\$1.9M	NA
Outlet Works Design	\$7.1M	\$500K
Spillway Design	\$4.7M	\$1.6M
Release Channel Design	\$144K	\$450K
Environmental Compliance	\$903K	\$400K
Regulatory Agency Permit Fee	\$310K	\$460K
Subtotal	\$15M	\$3.4M
Total Estimated Design Cost	\$18.4M	



ATTACHMENT TO MEETING MINUTES UWCD
Engineering and Operations Committee Presentations

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ENGINEERING DEPARTMENT MONTHLY UPDATE

May 4, 2023



1



Santa Felicia Dam Safety Improvement Project

Design

- April 17 – 90% Design Workshop Meeting
- April 26 – FERC met with NMFS and District to discuss NMFS comments on the Aug 2022 draft BA

CM Services

- April 17 – Received three proposals: Black & Veatch, Delve Underground, and Mott MacDonald

EAP

- April 18 – E-filed with FERC Functional Exercise After Action and Implementation Plan



03/22/23

2

2

Iron and Manganese Treatment Facility

OLDCC Site Visit



3

Iron and Manganese Treatment Facility



Construction Completion: July 21, 2023, incl. 13 inclement weather days
DCIP Completion Date: December 31, 2023



4

Iron and Manganese Treatment Facility



05/01/23

Filter media delivery on site



05/01/23

Laboratory room – dry wall installation



Extraction Barrier and Brackish Water Treatment Project



04/19/23

- OLDCC and United site tour, greeting Capt. Kimnach III
- DCIP grant opportunities for projects on military installations
- Final Draft MOA under review
- Draft Discharge Alternatives TM and Letter of Request are under development
- Letter of Support from LAFCo (April 24)



U.S. Department of Defense
Office of Local Defense
Community Cooperation



VENTURA
LOCAL AGENCY
FORMATION COMMISSION



Public Outreach





Perris II Desalter Tour of Eastern Municipal Water District
Desalination Complex




7

QUESTIONS





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Sabrina Kennedy at Saticoy – April 17, 2023

ENVIRONMENTAL SERVICES DEPARTMENT MONTHLY UPDATE


May 4, 2023




1

Department Summary Updates

- Freeman Diversion operations and fish passage facility
- Increased importation of water from Pyramid Lake to Lake Piru
- Santa Felicia Fish Passage Pre-Implementation Study site access
- Tour of proposed EBB Project locations at U.S. Navy Base Point Mugu



Freeman Diversion downstream view – April 10, 2023



Freeman fish ladder in use – April 10, 2023

2

Robbie Gambelli at Freeman – April 17, 2023



QUESTIONS ?



3



OPERATIONS AND MAINTENANCE DEPARTMENT MONTHLY UPDATE

May 4, 2023



1

Lake Piru Spill Continues Since 3-16-23






4-23-23

2


2

Santa Felicia Dam


Penstock Storm Cleanup – Grading




4-12-23 Penstock Cleanup




4-25-23 Irrigation Line LPWTP



4-12-23 Piru Recharge Basins



4-12-23 Piru Recharge Basins



3

3

Saticoy Recharge Basins

Generational Water Year



Desilt
Saticoy Basins
Noble 1
Noble 2
Noble 3
Rose Basin

5-3-23 Saticoy Recharge Basins



4

4

Freeman Diversion

Sediment Management



4-21-23 Fish Wiper Cleanup



4-21-23 Sediment Management



Every
Mon/Wed/Friday
Flush Cycle
5-1-23 Freeman Flush



5

OH Delivery

VFD Room Wire Pull / Shutdown - Post Chlorine Shutdown Gas Engine #4



4-25-23 VFD Electrical Building





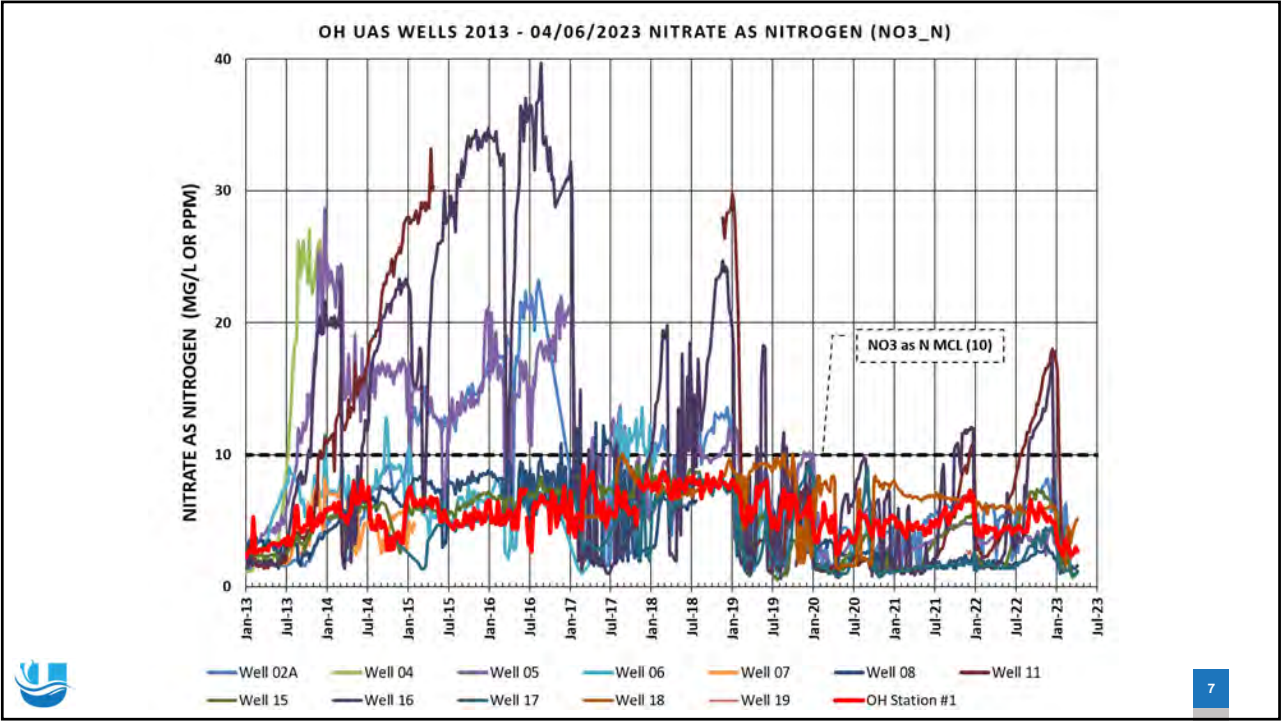
4-25-23 Post Chlorination
Manifold upgrade



4-21-23 El Rio Booster Plant
Gas Engine #4



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Questions?

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