

MINUTES
ENGINEERING AND OPERATIONS
COMMITTEE MEETING
Thursday, December 1, 2022, at 9:00 a.m.
Santa Clara Room, UWCD Headquarters
1701 N. Lombard Street, Oxnard, CA 93030

COMMITTEE MEMBERS IN ATTENDANCE

Lynn E. Maulhardt, chair
Gordon Kimball, director
Daniel C. Naumann, director

STAFF IN ATTENDANCE

Anthony Emmert, assistant general manager
Dr. Maryam Bral, chief engineer
John Carman, operations and maintenance program supervisor
Dan Detmer, water resources manager
Tessa Lenz, associate environmental scientist
Jackie Lozano, administrative assistant
Craig Morgan, engineering manager
Josh Perez, chief human resources officer
Zachary Plummer, technology systems manager
Linda Purpus, environmental services manager
Robert Richardson, senior engineer
Daryl Smith, controller
Clayton Strahan, chief park ranger

PUBLIC IN ATTENDANCE

Two members of the public were present; the attendance sheet was not signed.

Call to Order – Open Session

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

1. Public Comments

Information Item

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

2. Approval of Minutes

Motion

Motion to approve the Minutes of November 3, 2022, Engineering and Operations Committee meeting, Director Kimball; Second, Chair Maulhardt. Voice vote: two ayes (Maulhardt, Kimball), none opposed, one abstained (Naumann) not present at last meeting. Motion carried 2/0/1.

3. December 14, 2022, Board Meeting Agenda Motion Items

The Committee reviewed and discussed the following motion items for the December 14, 2022, UWCD Board of Directors meeting to formulate Committee recommendations:

3.1 Authorize a Contract with ESA to provide Consultant Services for CEQA and NEPA Documentation and Regulatory Permitting for the Phase 1 of the Extraction Barrier and Brackish Water Treatment Project

Associate Environmental Scientist Tessa Lenz presented the motion to the Committee (presentation attached). This motion to the Board would authorize the General Manager to execute an agreement with Environmental Science Associates (ESA) in the amount of \$908,256 [\$825,687 + 10% contingency (\$82,569)] to provide consultant services for the California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) Documentation, Processing, and Regulatory Permitting for the Phase 1 of the Extraction Barrier and Brackish Water Treatment Project (EBB Water).

Chair Maulhardt mentioned this request is consistent with District activities and was in favor of recommending approval to the Board. Chief Engineer Dr. Maryam Bral and Senior Engineer Robert Richardson were on hand to answer any questions.

With guidance from the Committee on what staff should bring forward to the Board of Directors meeting regarding the presentation, there would be no need to go into great detail, but that all the bases were covered with Ms. Lenz presentation.

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

The Committee members were in favor of recommending approval of the motion to the full Board.

3.2 Contract Award to Kennedy/Jenks Consultants, Inc. for Design Services Related to the Phase 1 of the Extraction Barrier and Brackish Water Treatment Project (CIP 8019)

Dr. Bral presented the motion to the Committee (presentation attached). This motion to the Board would authorize the General Manager to execute a professional consulting services agreement with Kennedy/Jenks Consultants, Inc. in the amount of \$2,069,912 [\$1,881,738 plus 10% contingency (\$188,174)] to complete the design and bid documents for Phase 1 of the Extraction Barrier and Brackish (EBB) Water Treatment Project (CIP 8019).

There was discussion among the Committee members and Dr. Bral regarding the efficacy of Phase 1. Dr. Bral discussed an initial feasibility analysis and modeling has been conducted for the project. Additional modeling is being conducted to address State and Regional Water Board's initial concerns. She also mentioned that the model does not show a significant downward movement of contaminants from the semi-perched to the Oxnard aquifer. Additional water quality data will be collected to support the model results. Further discussed were the wells and phases

of the project. Chair Maulhardt expressed his high level of confidence in the extraction barrier concept then continued to discuss discharge activities. After further discussion with Dr. Bral, Chair Maulhardt requested that the key points of the extraction and phases of discharge be presented similarly to the Board. Director Naumann added, he'd like hear more detail on the Navy's support of the project and to cover the project two-phased approach. There were questions from the Committee and discussion with staff regarding monitoring well activities and the bidding process for the contract. Concluding, Director Naumann reiterated when Dr. Bral presents to the Board, to explain Phase 1 and Phase 2 separately.

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

The Committee members were in favor of recommending approval of the motion to the full Board.

3.3 Authorize an Amendment to the University of Iowa Contract for the Physical Modeling of the Vertical Slot for the Freeman Expansion Project

Engineering Manager Craig Morgan presented the motion to the Committee (presentation attached). The motion to the Board would approve an amendment to the University of Iowa contract for the operational and stress physical modeling of the Vertical Slot for the Freeman Expansion Project which would result in a credit to the District in the amount of \$387,165. The Board approval would modify the scope of work which would provide cost savings to the District.

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

The Committee members were in favor of recommending approval of the motion to the full Board.

4. Project Highlights (see attached slides)

4.1 Engineering Department Update

Dr. Maryam Bral presented an overview of the Engineering Department's activities which included highlights from the Santa Felicia Dam (SFD) Safety Improvement Project Coordination Workshop, SFD Safety Regulatory Compliance, improvements at Lake Piru Recreational Area, Iron and Manganese Treatment Facility progress, and public outreach.

Chair Maulhardt mentioned Dr. Bral's summary updates were very good. When bringing the presentation to the Board, he stated there would be no need to take a deep dive into the details. Dr. Bral responded she would like the Board of Directors to be aware of Dam Safety related activities and it was her obligation and requirement as the Chief Dam Safety Engineer to provide this information and keep track/record of the information she shares with the Committee. Chair Maulhardt added, Dr. Bral shares the information that the Board of Directors needs to know

in order to meet the regulatory requirements regarding dam safety awareness. It was suggested to add the context by starting off saying “all staff members” when discussing compliance-type issues. Chair Maulhardt went on to request, when staff is speaking to the members of the Committee or Board, to state “things we are talking about today are regulatory in nature and I am certifying that the Board needs to hear the following information.” This is a small change in protocol of what has been done in the past. He appreciated Dr. Bral’s feedback because it was important to hear/share. She thanked the Committee for their support.

Director Naumann requested at a previous meeting to see the date stamped on the pictures depicted on the slides. He expressed his appreciation to Dr. Bral for providing that information on the images but would like the white text changed for readability before bringing the presentation to the Board.

Information Item. There were no further comments or questions from the Committee. No public comments or questions were offered.

4.2 Environmental Services Department Update

Environmental Services Manager Linda Purpus presented department updates which included partnership building with the California Conservation Corps during the FERC Fish Passage Pre-implementation Study, permitting support for the Freeman Sediment Management Project, and The SWRCB approval of Dissolved Oxygen Monitoring Annual Report related to water releases from the SFD.

When presenting the key activities of the pre-implementation study to the Board, Director Naumann suggested to Ms. Purpus to start off with the objectives first then follow with the rest of the presentation. After Ms. Purpus highlighted the State Water Resources Control Board’s approval of the Dissolved Oxygen Monitoring Report, there was discussion among Committee and staff regarding water discharge and the design considerations to increasing and maintaining dissolved oxygen in the releases from the new outlet works.

Director Naumann excused himself from the meeting at 10:02 a.m.

Information Item. There were no further comments or questions from the Committee. No public comments or questions were offered.

4.3 Operations and Maintenance Department Update

Program Supervisor John Carman presented an overview of the Operations and Maintenance Department activities. Included in the overview presentation were images depicting work being performed at the Santa Felicia Dam, and Freeman Diversion, as well as an update on the desilting of the Desilting Basin in Saticoy and enhancements/repairs to the OH pipelines and PTP Well No. 3.

A question raised by Chair Maulhardt regarding beneficial use of the dirt removed as a result of the desilting project. He stated that there needed to be a solution of where the dirt can be stored for beneficial use, and it may have some value to other businesses who may need it. It was mentioned by staff that the District had consulted on this process in the past.

Director Kimball commented that he was pleased with the new outlet works project. Dr. Bral asked the Committee members what they would like staff to present to the Board. Committee members confirmed all slides are good and to please include the back stories concerning requirements.

Information item. There were no additional comments or questions from the Committee. No public comments were offered.

5. Future Agenda Topics

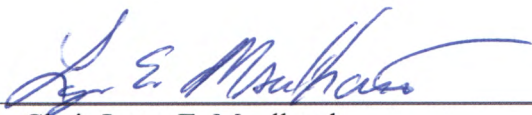
None were offered.

ADJOURNMENT 10:17 a.m.

Chair Maulhardt adjourned the meeting at 10:17 a.m.

I certify that the above is a true and correct copy of the minutes of the Engineering and Operations Committee Meeting of December 1, 2022.

ATTEST:


Chair Lynn E. Maulhardt

Motion Item
3.1

CEQA and NEPA Documentation and Regulatory Permitting Services
Contract Award to Environmental Science Associates for
Phase 1 of the Extraction Barrier and Brackish Water Treatment Project


☐ RFQ/P released on August 8, 2022


☐ Received five proposals on September 15, 2022

☐ Three firms were interviewed

☐ Environmental Science Associates (ESA) was selected by the interview panel

☐ Contract amount: \$908,256 (includes 10% contingency)

A photograph showing two people standing in a field of low-lying vegetation. One person is wearing a high-visibility vest and the other is pointing towards the distance. The background shows a clear sky and distant hills.



1

Motion Item

3.2

Design Services Contract Award to Kennedy Jenks for Phase 1 of the Extraction Barrier and Brackish Water Treatment Project


RFQ/P released on August 12

Received one proposal on September 22

Interview panel met with Kennedy Jenks (KJ) consultants on November 8 and selected KJ for design services

Staff discussed PM and SOW with KJ on November 9

Staff recommends approval of a contract with KJ for \$2,069,912 (includes 10% contingency)



1

Phase 1 Extraction Barrier and Brackish (EBB) Water Treatment Project




Figure 2 - Project Location Map

1


1


Motion Item
3.3

Amendment to the University of Iowa Contract for the Physical Modeling
of the Vertical Slot for the Freeman Expansion Project

☐

Staff recommends approval of a contract amendment with the
University of Iowa for \$387,165





1



ENGINEERING DEPARTMENT MONTHLY UPDATE

December 1, 2022



1



Interagency Emergency Action Plan and Santa Felicia Dam Safety Improvement Project Coordination Workshop on Nov. 15

Santa Felicia Dam Safety Improvement Project

- DWR and United reviewed Santa Felicia Dam, Pyramid, and Castaic Emergency Action Plans.
- SFD Safety Improvement Project and proposed construction schedule, pre-construction risk reduction measures and hydrological risk assessment during construction, were discussed.
- Staff from several DWR divisions, LADWP, GEI, Catalyst, and United were in attendance.
- Next coordination meeting is tentatively scheduled for early 2023.



2

2



Santa Felicia Dam Safety Regulatory Compliance

Quinquennial SFD EAP Functional Exercise Feb. 23, 2023

- Staff e-filed the District Plan and Schedule for the exercise with FERC on November 18. Gannett Fleming will facilitate the exercise and ensure compliance with FERC guidelines.

Quinquennial ODSP External Audit

- Staff is currently reviewing the draft report that was prepared and submitted for review on October 28. The final copy is due to FERC by December 31, 2022.



Triennial Spillway Underdrain System Inspection

- The video inspection was conducted by HDR Engineering on November 17 and 18 and the draft inspection report will be ready for staff review by December 7.

3

3

Condor Point Improvements



4

4

Iron and Manganese Treatment Facility



Nov 14, 2022 at 11:58:20 AM
Oxnard CA 93036
United States



Nov 14, 2022 at 2:32:13 PM
Oxnard CA 93036
United States

Filter vessel interior preparation prior to concrete pour



5

5

Iron and Manganese Treatment Facility



Nov 15, 2022 at 11:04:25 AM
Oxnard CA 93036
United States



Nov 15, 2022 at 2:02:20 PM
Oxnard CA 93036
United States

Underground piping and valving



6

6

Iron and Manganese Treatment Facility



Installation of MCC in the Fe/Mn Building

7

7

Public Outreach

- ❑ FERC-D2SI Security Branch Fall 2022 Webinar (Nov 2)
- ❑ Pyramid Dam Tour (Nov 15)
- ❑ CA Coastal Commission Cal Am Desalination Hearing (Nov 17)



The DWR Southern Field Division provided a tour of Pyramid Dam to Staff from Engineering, Environmental Services and Water Resources departments

8

QUESTIONS



9



ENVIRONMENTAL SERVICES DEPARTMENT MONTHLY UPDATE

December 1, 2022




Department Summary Updates


- FERC Fish Passage
Pre-implementation Study
 - Fall Monitoring
 - o Partnership building opportunity
 - Rockslide on Piru Canyon Road



Department Summary Updates (continued)

- Permitting
 - Freeman Sediment Management Project - Complete
- SWRCB Approval of Dissolved Oxygen Monitoring Report





3

3

QUESTIONS





4

4



OPERATIONS AND MAINTENANCE DEPARTMENT MONTHLY UPDATE

December 1, 2022



1

Santa Felicia Dam

Rain Event 1.86 inches – Treatment Plant Filter Media



2

2

Freeman Diversion

Sediment Management Project





3

3

Desilt Clean Out Update

Saticoy

Load Count as of 11/28: 1428
38,556 cubic yards



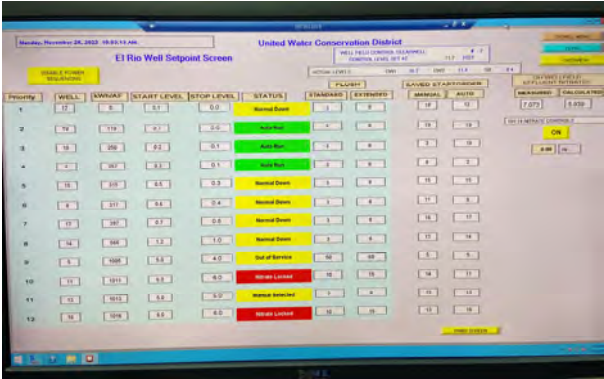



4


4

OH Delivery

OH Well 12 VFD – Nitrate Blend Mode



Priority	WELL	MINIAP	START LEVEL	STOP LEVEL	STATUS	STANDARD	EXTENDED	SAVED START PROGRAM	SAVED STOP PROGRAM	MANUAL	AUTO
1	12	5	5.7	6.0	Normal Stand	5.7	6	5.7	6	ON	ON
2	7a	7.9	9.7	9.9	Normal Stand	9.7	9.9	9.7	9.9	ON	ON
3	7b	8.8	8.9	9.1	Normal Stand	8.8	8.9	8.8	8.9	ON	ON
4	4	3.87	3.7	3.7	Normal Stand	3.7	3.7	3.7	3.7	ON	ON
5	10	3.05	3.4	3.7	Normal Stand	3.4	3.7	3.4	3.7	ON	ON
6	4	3.11	3.4	3.4	Normal Stand	3.4	3.4	3.4	3.4	ON	ON
7	10	3.87	3.7	3.7	Normal Stand	3.7	3.7	3.7	3.7	ON	ON
8	4	3.88	3.7	3.7	Normal Stand	3.7	3.7	3.7	3.7	ON	ON
9	5	3.88	3.7	3.7	Normal Stand	3.7	3.7	3.7	3.7	ON	ON
10	10	3.05	3.4	3.7	Normal Stand	3.4	3.7	3.4	3.7	ON	ON
11	10	3.87	3.7	3.7	Normal Stand	3.7	3.7	3.7	3.7	ON	ON
12	10	3.05	3.4	3.7	Normal Stand	3.4	3.7	3.4	3.7	ON	ON


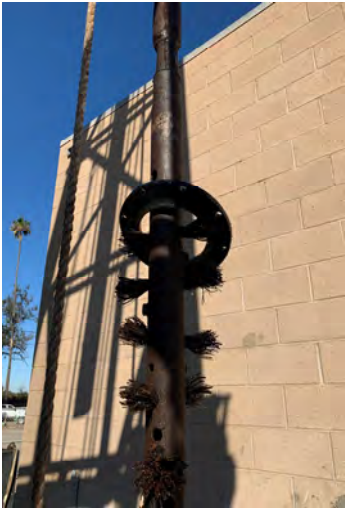



5

5

PTP

PTP Well #3





6

6

Questions?

