



Board of Directors
Bruce E. Dandy, President Sheldon G.
Berger, Vice President
Lynn E. Maulhardt, Secretary/Treasurer
Mohammed A. Hasan
Catherine P. Keeling
Gordon Kimball Daniel C.
Naumann

General Manager
Mauricio E. Guardado, Jr.

Legal Counsel David
D. Boyer

AGENDA
ENGINEERING and OPERATIONS COMMITTEE MEETING
Thursday, December 7, 2023, at 9:30 a.m.
UWCD Headquarters, First Floor, Board Room
1701 N. Lombard Street, Oxnard, CA 93030

CALL TO ORDER – OPEN SESSION 9:30 a.m.

Roll Call

1. Public Comment

The public may comment on any matter not on the agenda within the jurisdiction of the Committee. All comments are subject to a five-minute time limit.

2. Approval of Minutes

Motion

Approve the October 5, 2023, Engineering and Operations Committee meeting minutes.

3. December 13, 2023, Board Meeting Motion Agenda Items

The Committee will review and discuss the following agenda items to be considered for approval at the December 13, 2023, Board meeting. The Committee will formulate a recommendation to the entire Board based on its discussions with staff.

3.1 Authorize Contract Amendment to the Professional Consulting Services Agreement with GEI Consultants, Inc. for the Development of the Final Design Phase of the Santa Felicia Dam Outlet Works Improvement Project (CIP 8002), Approval of a Supplemental Appropriation to Cover Fees Associated with the Amendment, and Approval to Fund the Supplemental Appropriation Using the EPA WIFIA Loan (Engineering Department, Dr. Maryam Bral)

Recommend the approval of the motion to the Board authorizing the General Manager to execute an amendment to the professional services agreement with GEI Consultants, Inc. in the amount of \$1,158,211.00 (including 4.73% of total fee allocated to optional tasks and 17.3% contingency) to continue the development of the final design phase of the Santa Felicia Dam Outlet Works Improvement Project, approval of a supplemental appropriation, and approval to fund the supplemental appropriation using the EPA WIFIA low-interest loan.

3.2 Approve Resolution Determining the Three Barrel Culvert Replacement Project is Exempt from the Provisions of the California Environmental Quality Act and Approve the Project (Engineering Department, Craig Morgan)

Recommend the approval to the Board a Resolution determining the Three Barrel Culvert Replacement Project (Project) is exempt from the provisions of the California Environmental Quality Act (CEQA) and approving the Project, and direct staff to file the Notice of Exemption in accordance with CEQA.



3.3 Approve Resolution Determining the Inverted Siphon Replacement Project is Exempt from the Provisions of the California Environmental Quality Act and Approve the Project (Engineering Department, Craig Morgan)

Recommend the approval to the Board a Resolution determining the Inverted Siphon Replacement Project (Project) is exempt from the provisions of the California Environmental Quality Act (CEQA) and approving the Project, and direct staff to file the Notice of Exemption in accordance with CEQA.

3.4 Authorize Approval of a Contract with HDR Engineers, Inc. to Develop the Final Design of the Freeman Conveyance System Upgrade – Freeman to Ferro Recharge Basin (CIP 8018) (Engineering Department, Craig Morgan)

Recommending the approval of the motion to the Board authorizing the General Manager to execute an agreement with HDR Engineers, Inc. (HDR) in the amount of not to exceed \$350,000.00 to develop the final design of the Freeman Conveyance System Upgrade – Freeman to Ferro Recharge Basin.

3.5 Authorize Approval of a Contract Amendment to the Professional Consulting Services Agreement with Cramer Fish Sciences to Complete Pre-Implementation Studies (Environmental Services Department, Evan Lashly)

Recommend the approval to the Board of the motion authorizing the General Manager to execute an amendment to the professional consulting services agreement with Cramer Fish Sciences in the amount of \$195,832 to complete Pre-implementation Studies in support of Federal Energy Regulatory Commission license compliance.

4. Monthly Department Updates

Information Item

The Committee will receive and review the monthly reports from the Engineering, Environmental Services, and Operations and Maintenance Departments as well as receive a verbal presentation of its highlights.

4.1 Engineering Department Update (Dr. Maryam Bral)

4.2 Environmental Services Department Update (Marissa Caringella)

4.3 Operations and Maintenance Department Update (Randy Castaneda)

5. Future Agenda Items

Operations and Maintenance Refined Valve Exercise Program (Clayton Strahan)

ADJOURNMENT

Directors:

Chair Lynn E. Maulhardt

Daniel C. Naumann

Catherine P. Keeling

Staff:

Mauricio E. Guardado, Jr.

Anthony Emmert

Marissa Caringella

Evan Lashly

Vanessa Vasquez

Dr. Maryam Bral

Clayton Strahan

Craig Morgan

Randy Castaneda

Michel Kadah



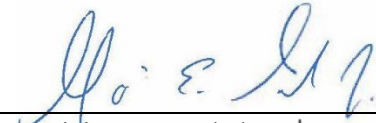
Engineering and Operations Committee Meeting Agenda

Thursday, December 7, 2023

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Approved:


Mauricio E. Guardado, Jr., General Manager


Dr. Maryam Bral, Chief Engineer


Clayton Strahan, Interim Chief Operations Officer

Posted: (date) December 1, 2023

(time) 9:35 a.m.

(attest) Vanessa Vasquez

At: www.unitedwater.org

Posted: (date) December 1, 2023

(time) 9:35 a.m.

(attest) Vanessa Vasquez

At: United Water Conservation District Headquarters, 1701 N. Lombard Street, Oxnard CA 93030



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ENGINEERING and OPERATIONS
COMMITTEE MEETING
MINUTES

Thursday, October 5, 2023, at 9:30 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 program supervisor
Randy Castaneda, chief water treatment operator
Hannah Garcia-Wickstrum, environmental scientist
Tessa Lenz, environmental scientist
Craig Morgan, engineering manager
Randall McInvale, principal environmental scientist
Josh Perez, chief human resources officer
Michel Kadah, engineer
Zachary Plummer, technology systems manager
Robert Richardson, principal engineer
Vanessa Vasquez, clerk of the committee
Brian Zahn, chief financial officer

PUBLIC IN ATTENDANCE

No members of the public were in attendance.

Call to Order – Open Session

Director Naumann called the committee meeting to order at 9:30 a.m. The clerk of the Committee called roll. All Committee members were present (Naumann, Maulhardt, and Keeling).

1. Public Comments

Information Item

Director Naumann asked for public comment. None were offered.



2. Approval of Minutes

Motion

Motion to approve the Minutes from the July 6, 2023, Engineering and Operations Committee meeting, Director Naumann; Second, Maulhardt. Voice vote: two ayes (Naumann and Maulhardt); none opposed; one abstained (Keeling). Motion carries 2/0/1.

3. October 11, 2023, Board Meeting Motion Agenda Item

The Committee reviewed and discussed the following motion item to formulate recommendations to the full Board at its October 11, 2023, meeting.

3.1 Resolution 2023-15 Approving Adoption of the Revised Santa Felicia Dam (SFD) Owner Dam Safety Program (ODSP) dated October 2023

Chief Engineer Dr. Maryam Bral presented background on motion 3.1 (presentation attached).

Chair Maulhardt asked Dr. Bral if the only changes to the SFD ODSP were to the command structure or if there were changes to tasks. Dr. Bral stated that the reporting structure had minor changes and that overall, there were no significant changes to the package. To further clarify Chair Maulhardt asked if the categories remained the same and or if only names were being updated. Dr. Bral responded yes, due to the outcome of the SFD Functional Exercise it was determined that there was a lot of coordination required by the incident command position. It was best to divide the position amongst two positions – Incident Commander and EAP Coordinator positions.

No further questions or comments. The Committee members were all in favor of recommending approval of this motion to the full Board.

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 receiving verbal presentations of highlights (presentations are attached).

4.1 Engineering Department Update

Dr. Bral presented department updates that covered status updates on the Santa Felicia Dam safety improvement project, Santa Felicia Dam regulatory updates, 2023 Lake Piru recreation area pavement maintenance program, the Iron and Manganese Treatment facility, filter media loading, filter media backwash, Freeman Conveyance system upgrade, and the Extraction Barrier and Brackish Groundwater Treatment-Water Phase 1, and public outreach (presentation attached).

Referencing the Santa Felicia Dam Safety Improvement Project (slide two), Chair Maulhardt asked when construction would begin. Dr. Bral provided a potential construction date of July 15, 2025. General Manager, Mauricio Guardado then discussed how NMFS (National Marine Fishery Service) filed a late motion to



intervene with FERC (Federal Energy Regulatory Commission) on August 29 (slide three). Dr. Bral further explained how the motion was denied by FERC and expressed her sincere gratitude as the SFD Safety Improvement Project could have been delayed significantly had the motion to intervene been approved. Chair Maulhardt added that the Board should be made aware of this regulatory process to offer support.

Dr. Bral continued her presentation.

Director Naumann asked whether groundwater from wells in the lower aquifer system is treated by the iron and manganese treatment facility. Dr. Bral responded in the affirmative. Dr. Bral explained that the treated water is blended with water from the upper aquifer system to manage nitrate issues. Director Naumann asked about the timing of the Freeman Conveyance System Upgrade – Freeman to Ferro Recharge Basin (slide nine). Dr. Bral responded that the project is in the preliminary design phase. The Committee went into discussion about plans for capturing storm season water and seeking stakeholder support.

4.1.1 Owner Dam Safety Program (ODSP) Chief Dam Safety Engineer's (CDSE's) Annual Dam Safety Report October 2022 through October 2023

Dr. Bral presented the ODSP CDSE's Annual Dam Safety Report to the Committee that covered dam safety incidents, critical inspection findings, surveillance and monitoring, Emergency Action Plan (EAP) exercises and 2022 ODSP external audit report findings (presentation attached).

Chair Maulhardt asked about the SFD spillway drain system rated as fair (slide four). He wanted to clarify if the fair rating would improve after spillway construction updates occur. Dr. Bral responded that the rating would improve.

Chair Maulhardt recommended condensing the conversation in the presentation and highlighting important details. Director Naumann asked if the ODSP updates are required to be read aloud in a public forum. Dr. Bral stated it is a requirement by FERC. Chair Maulhardt stated due to the notification being critical to certify dam safety, the Committee offers its full support on the notification. The Committee agreed that Chair Maulhardt will announce the ODSP CDSE's Annual Dam Safety Report notice as a requirement to the Board.

No further questions or comments were offered.

4.2 Environmental Services Department Update

Environmental Services Manager Marissa Caringella presented Environmental Services department updates that included Freeman Diversion operations, quagga mussel monitoring, increased state water imports to Lake Piru, and Extraction Barrier and Brackish Water Treatment Project highlights (presentation attached).



Chair Maulhardt asked for a reminder on what the acronym MSHCP stood for (slide two). Marissa responded, Multiple Species Habitat Conservation Plan.

Director Naumann asked whether state water imports could be received in February instead of in December. Marissa stated that the temporary variance to DWR's FERC license allows for 25,000 acre-feet of water during the delivery window of November 2023 through February 2024. Chair Maulhardt asked about water storage capacity. The Committee discussed water storage options and keeping the public informed. The Committee members agreed discussions would continue at a future committee meeting. Ms. Caringella added that temporary variances would be needed annually until a permanent solution to allow for increased state water imports to Lake Piru is in place. Chair Maulhardt expressed his gratitude for staff's hard work.

No further questions or comments offered.

4.3 Operations and Maintenance Department Update

Operations and Maintenance Program Supervisor John Carman presented Operations and Maintenance department updates that covered Santa Felicia Dam, PV Reservoir, OH Delivery, El Rio Booster Plant, Iron and Manganese Treatment Plant Ribbon Cutting Ceremony, and the PTP System (presentation attached).

Before presenting, Mr. Carman announced his retirement after a tenure of over 30 years with the District. Chair Maulhardt playfully responded to him he couldn't retire and added that staff's predecessors have had a lasting positive impact on the District. Addressing staff, he urged incumbents to continue their hard work. He thanked Mr. Carman for his involvement over the years.

The committee discussed maintenance work at the Saticoy and El Rio Ponds to improve percolation rates.

No further questions or comments were offered.

5. Future Agenda Items

No future agenda items or comments offered.

ADJOURNMENT 10:58 a.m.

Chair Maulhardt adjourned the meeting at 10:58 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 October 5, 2023.

ATTEST: _____
Chair Lynn E. Maulhardt

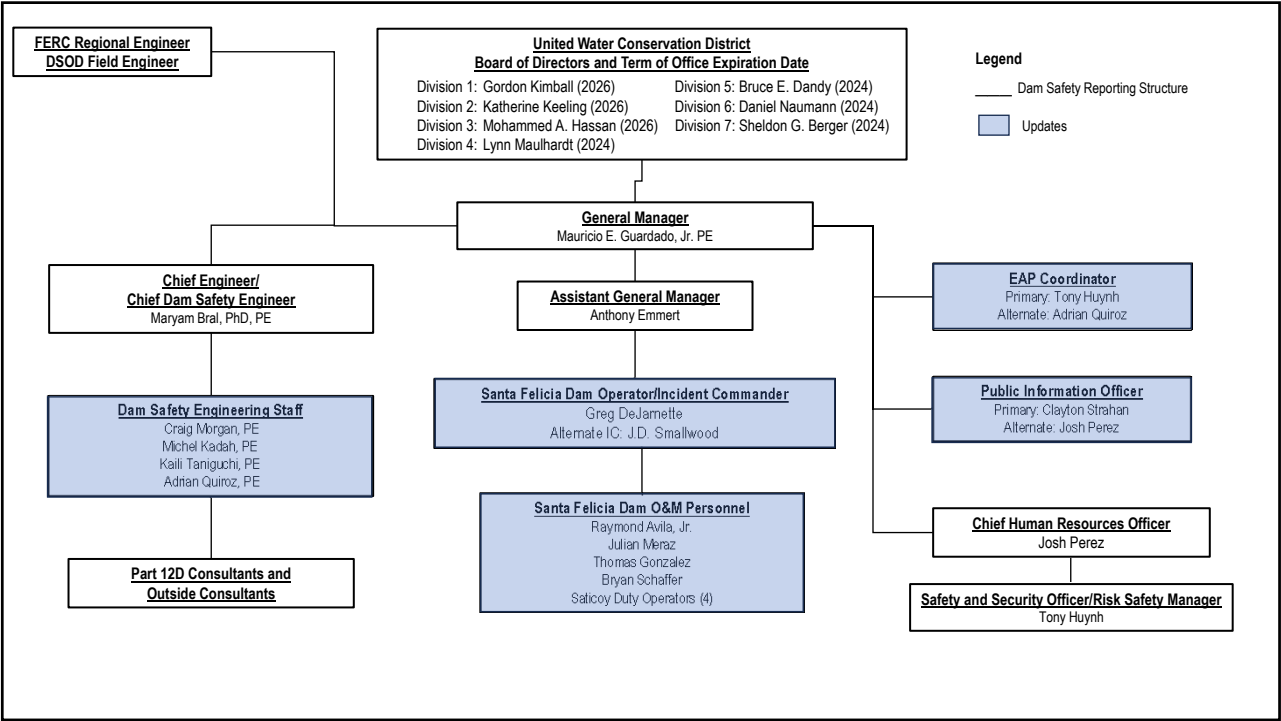
Regulatory Compliance

Resolution 2023-15 Adopting the Revised ODSP Document – October 2023

3.1 A Resolution of the United Water Conservation District Board of Directors Adopting the Revised Owner’s Dam Safety Program




1



2

QUESTIONS





1

Santa Felicia Dam Safety Improvement Project

Design and Pre-construction Phase

- ❑ 60% Spillway Design Completion by end of October 31
- ❑ 100% Outlet Works Design ongoing
- ❑ BV completed review of the Outlet Works Design Documents:
 - ✓ Constructability Quality Assurance report
 - ✓ Owners Engineer Quality Assurance report
 - ✓ Plans and Specs review
- ❑ Multi-agency Coordination Meeting No. 5 (United, DWR, LADWP)
 - ✓ Coordinating activities prior to and during new Outlet Works Construction



2


2

Regulatory

Santa Felicia Dam Safety Improvement Project

Environmental Permitting and Agency Consultation

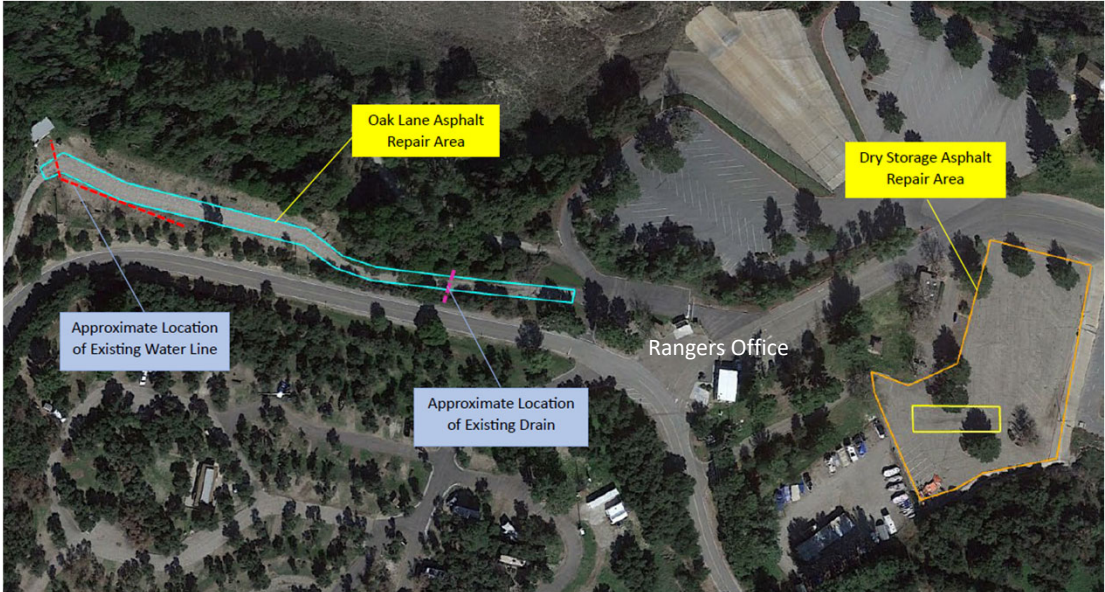
- ❑ Motion to Intervene - NMFS filed a late motion with FERC on August 29
- ❑ Opposition to Motion: United filed an Opposition on September 13.
- ❑ United’s letters to FERC (September 12).
 - Request for non-federal designation to conduct ESA Section 7 consultation with NMFS.
 - Clarification on Environmental Baseline under ESA of 2008 BiOp and Final BiOp for dam safety improvements.
- ❑ NMFS’ Letter filed with FERC on September 14 – NMFS responded to United’s May 24, 2023 response to comments on the draft Biological Assessment.




3

3

2023 Lake Piru REC AREA Pavement Maintenance Program







4

4

Dry Storage Parking Area




8/30/2023




8/30/2023

Oak Lane




4/18/2023



9/28/2023

Notice of Completion filed with the County in September



5

Iron and Manganese Treatment Facility



9/13/2023



6

6

Filter Media Loading





7

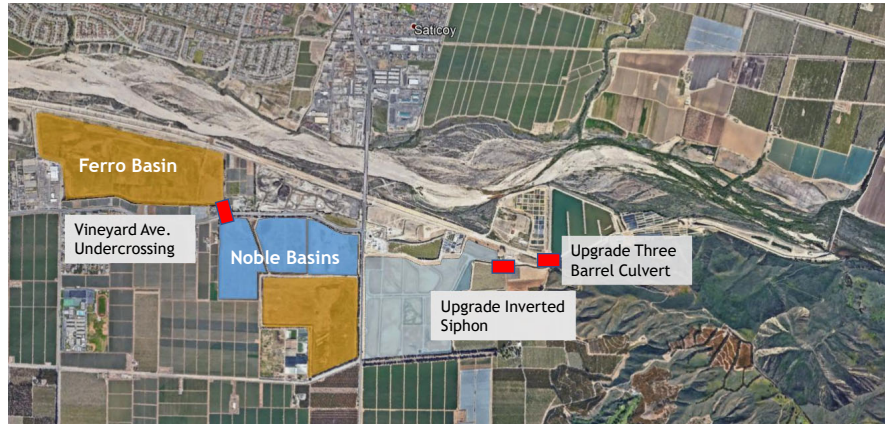
Filter Media Backwash





8

Freeman Conveyance System Upgrade - Freeman to Ferro Recharge Basin



- ☐ Three Barrel Culvert - 90% design upgrade completed in August.
 - Staff reinitiated the permit process with Ventura County Watershed Protection.
- ☐ Inverted Siphon – 100% Design and Bid Packet ready for bid
- ☐ Noble – Ferro Connection – HDR to prepare the Preliminary Design Report



9

9

Extraction Barrier and Brackish Groundwater Treatment - WATER Phase 1

- ☐ **MOA** – Submitted to the Navy in August to be fully executed in 2023.
- ☐ **LOR** – Draft submitted to the Navy in September. The Navy to initiate the real estate process for an outgrant easement.
- ☐ **SWRCB Grant Agreement** - United and SWRCB/ DFA Staff are developing the agreement for \$8.45M grant. Full execution by late 2023.
- ☐ **Geotechnical Exploration** – Proposals from two Geotech consultants are under review by Staff.
- ☐ **Design and Permits** - KJ, ESA and United site visit on October 3. *(more information to be provided by ESD)*



10



10

Public Outreach

Newark Desalination Facility and Aquifer Reclamation Wells visit in August



Thank You





Owner Dam Safety Program

CDSE's Annual Dam Safety Report


October 2022 through October 2023



1

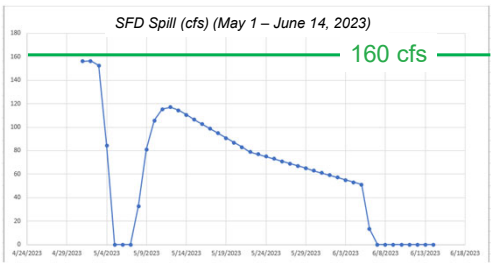

Dam Safety Incidents

Seismic Event




Aug 20, 2023 - 5.1 M Earthquake – 4.3 miles SE of Ojai, CA

Spill Events



Spillway flow not considered a dam safety emergency



2

2

1



Critical Inspection Findings





✓ Spillway debris removal by August 30, 2023



✓ Engineering Inspection of spillway on September 14



✓ Annual FERC Inspection on September 26









3

Surveillance and Monitoring


Monitoring Activity and Highlights

Triennial Spillway Drain Video Inspection – November 2022

Drain system functional and in fair condition.

Biennial Monitoring Survey – June 2023 (Structural)


Data Processing In-Progress.






4

EAP Exercises



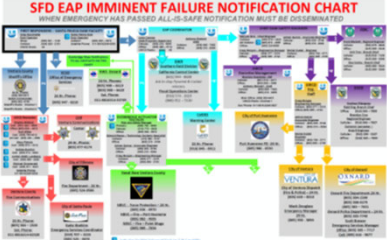
2022 EAP Tabletop Exercise
October 20, 2022

54 Participants from 11 agencies



2023 EAP Functional Exercise
February 23, 2023

49 participants from 10 agencies




2023 EAP Call-Down Drill
June 27, 2023

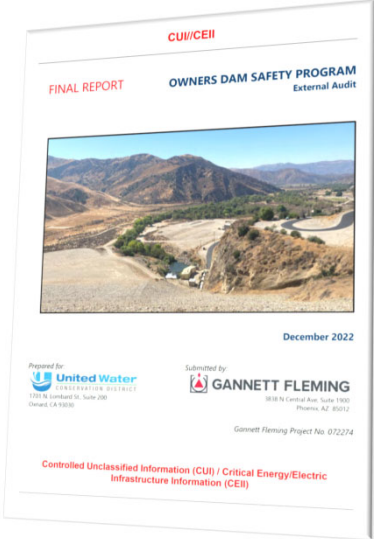
Notified 15 external agencies in 13 minutes

Two inundation flood maps introduced during the past year

5

2022 ODSP External Audit Report Findings

- External Auditor provided 15 recommendations for improving the SFD ODSP
-  Develop an overarching dam safety policy that states UWCD’s commitment to public safety through the implementation of an effective dam safety program.
- GM Debriefing in November 2022
- Plan and Schedule for addressing recommendations to be submitted to FERC by December 31, 2023



COVER/CEII
FINAL REPORT OWNERS DAM SAFETY PROGRAM External Audit
December 2022
Prepared for: United Water
Submitted by: GANNETT FLEMING
Gannett Fleming Project No. 072274
Controlled Unclassified Information (CUI) / Critical Energy/Electric Infrastructure Information (CEII)

6

CDSE’s Annual Dam Safety Report

The report documents dam safety events and accomplishments over the past year. (Ref: 2022 ODSP Audit Report)


✓ 2022 ODSP Audit Report Findings	✓ EAP Updates
✓ Dam Safety Incidents / EAP Activations	✓ EAP Exercises
✓ Critical Inspection Findings	✓ Annual Trainings
✓ Surveillance and Monitoring	✓ New policies, practices and procedures
✓ Maintenance Modifications	✓ Current and projected future ODSP improvements

❑ Expand ODSP to Serve as Dam Safety Policy

❑ Implement Dam Safety Mentorship Program and Succession Planning

❑ Future Dam Safety Training Plans

- Implement Cross-Training for SFD and Saticoy O&M Staff
- Implement Routine Training at Monthly O&M Safety Meetings



7



QUESTIONS ?



Lake Piru – summer 2023
Photo by Ecomarine Consulting

ENVIRONMENTAL SERVICES DEPARTMENT SEPTEMBER UPDATE

October 5, 2023



Freeman Diversion Operations

Flushing operation support

Maintenance activity planning

MSHCP to be submitted Feb 9, 2024



Freeman Diversion – Sept 15, 2023



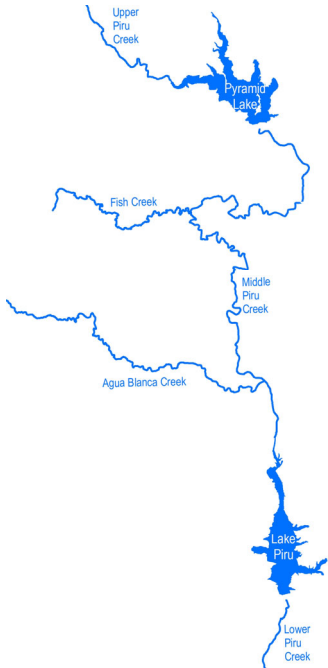
2

Quagga Mussel Management

- Monitoring at Lake Piru, lower Piru Creek, SFD spillway pool
- Lower system monitoring of 10 sites weekly
- Lower System chemical treatment



3



Increased State Water Imports to Lake Piru

- APPROVED!**
Temporary Variance for Nov 2023 to Feb 2024 delivery
- United can import up to 25,000 acre-feet from Pyramid to Lake Piru
- Planning for next year
- Long-term solution underway






4



Extraction Barrier and Brackish Water Treatment Project Highlights

Collected scientific data from the Mugu Lagoon for technical studies and CEQA

In August 2023, conducted

- Bathymetric survey of the Mugu Lagoon via kayak, and
- Eelgrass mapping of the Mugu Lagoon via kayak.









Extraction Barrier and Brackish Water Treatment Project Highlights

Collected scientific data from the Mugu Lagoon for technical studies and CEQA

In August 2023, conducted

- Bathymetric survey of the Mugu Lagoon via kayak, and
- Eelgrass mapping of the Mugu Lagoon via kayak.









OPERATIONS AND MAINTENANCE DEPARTMENT MONTHLY UPDATE

October 5, 2023



1

Santa Felicia Dam

Filtration Plant 4” Hose – Monument / Parapet wall painting- Marina Dock





2

2

PV Reservoir





3

OH Delivery

El Rio Recharge Basins – SCBA Training





4

El Rio Booster Plant

Nh3 Stalactite removal / repair



5

5

FeMn

Ribbon Cutting



6

6



7

PTP System

Meter Upgrade Project – PTP 2

A close-up view of a water meter and associated piping at a turnout. A white utility truck is visible in the background.

Turnout #113

A view of a large yellow pipe and valve assembly at a well site, with a utility truck nearby.

PTP Well #2
Check valve / manifold upgrade

A small blue logo with a stylized 'U' is in the bottom left corner, and a blue square with the number '8' is in the bottom right corner.

8

Questions?



Staff Report

To: Engineering and Operations Committee Members

Through: Mauricio E. Guardado, Jr., General Manager

From: Dr. Maryam Bral, Chief Engineer
Michel Kadah, Engineer

cc: Brian Zahn, Chief Financial Officer

Date: November 28, 2023 (December 7, 2023 Committee Meeting)

Agenda Item: **3.1 Authorize Contract Amendment to the Professional Consulting Services Agreement with GEI Consultants, Inc. for the Development of the Final Design Phase of the Santa Felicia Dam Outlet Works Improvement Project (CIP 8002), Approval of a Supplemental Appropriation to cover Fees associated with the Amendment, and Approval to Fund the Supplemental Appropriation Using the EPA WIFIA Loan**
Board Motion

Staff Recommendation:

The Committee will consider recommending approval of the motion to the full Board that considers authorizing the General Manager to execute an amendment to the professional consulting services agreement with GEI Consultants, Inc. (GEI) in the amount of \$1,158,211.00 (including 4.73% of total fee allocated to optional tasks and 17.3% contingency) to continue the development of the final design phase of the Santa Felicia Dam Outlet Works Improvement Project (Project), approval of a supplemental appropriation and approval of fund transfer using the EPA Water Infrastructure Finance Innovation Act (WIFIA) low-interest loan to support the supplemental appropriation.

Background:

The Santa Felicia Dam existing outlet works system needs to be replaced due to concerns related to seismic stability of the intake tower and water conveyance conduit through the dam and the ongoing reservoir siltation that could potentially obstruct operation of the outlet works in the near future. The new outlet works facility includes an Intake control facility (ICF), consisting of a sloping intake facility in the reservoir and fish screens, two water conveyance conduits in a Tunnel through the east abutment, a Downstream Control Facility (DCF), a hydropower facility consisting of a small cross-flow turbine located within the DCF, and an access road connecting the ICF to DCF.

GEI was retained to develop the design of the Project in multiple phases (i.e., 10%, 30%, 60%, 90%, 100%). The latest design phase (i.e., 90% design) was substantially completed in May 2023

Agenda Item: 3.1 Authorize Contract Amendment to the Professional Consulting Services Agreement with GEI Consultants, Inc. for the Development of the Final Design Phase of the Santa Felicia Dam Outlet Works Improvement Project (CIP 8002), Approval of a Supplemental Appropriation to cover Fees associated with the Amendment and Approval to Fund the Supplemental Appropriation using the EPA WIFIA Loan
Board Motion

and the design documents were presented to the Board of Consultants (BOC), the Federal Energy Regulatory Commission (FERC), and the California Department of Water Resources Division of Safety of Dams (DSOD) at the BOC meeting No. 7 on June 20-21, 2023. In order to prevent delays in advancing the design to the final phase, United entered into a professional services agreement with GEI on June 9, 2023.

Discussion:

The development of the final design is currently in progress. However, as the final design evolved, additional design modifications have been identified. Contract Amendment No. 1 includes the continued efforts needed to develop the requested design modifications for inclusion in the final design documents as a result of the following:

1. United's request to redesign the sloping intake, thereby increasing the number of high-flow intakes to six to allow discharges from Lake Piru Reservoir during anticipated future extended drought periods when reservoir levels are low. Lowering high-flow intakes (No. 2, 3, and 4) is required to allow up to 500 cubic feet per second (cfs) cfs discharge, thus enabling increased operational flexibility of the new outlet works system. The additional two intakes (No. 5 and 6) will be designed to be operational in the future should reservoir siltation make the lowermost intakes inoperable.
2. The BOC's recommended design modifications and additional analysis discussed at the BOC meeting No. 7 on June 21, 2023 and documented in the BOC Final Report and other associated documents. These modifications are not included in the June 9, 2023 GEI agreement.
3. Recommendations for developing design details, and considerations for construction re-sequencing opportunities and alternative means and methods requested by Black and Veatch (BV) (Project construction manager) following the review of the constructability evaluation report prepared by GEI. Inclusion of these recommendations in the final design could reduce the potential for contractor claims during construction and result in a more cost-effective construction contract.
4. FERC's request for performing a design Potential Failure Mode Analysis (PFMA) in accordance with FERC guidelines. The design PFMA covering the design of both the outlet works improvement and spillway improvement projects will be performed during a four-day workshop from January 22 through 25, 2024, prior to the final design phase completion. GEI's subject matter experts will attend the workshop and GEI will provide

Agenda Item: 3.1 Authorize Contract Amendment to the Professional Consulting Services Agreement with GEI Consultants, Inc. for the Development of the Final Design Phase of the Santa Felicia Dam Outlet Works Improvement Project (CIP 8002), Approval of a Supplemental Appropriation to cover Fees associated with the Amendment and Approval to Fund the Supplemental Appropriation using the EPA WIFIA Loan
Board Motion

support to finalize the PFMA report post-PFMA workshop. The report will be submitted to FERC for review and approval prior to the commencement of construction.

5. Additional analysis to support the environmental documents (i.e., draft biological assessment and environmental assessment documents) required for completion of the Endangered Species Act Section 7 consultation with the National Marine Fisheries Service (NMFS), other State and Federal agencies, as well as NEPA documentation for review and approval by FERC as the lead agency.

Additionally, Contract Amendment No.1 will extend the contract term to December 31, 2024 in accordance to the revised overall project schedule that was submitted to FERC by October 31, 2023. The revised schedule includes the Project construction start date as July 2025. The proposed amendment would increase the contract by \$1,158,211 and result in a total revised not-to-exceed contract amount of \$2,026,191.

Staff recommends execution of Contract Amendment No. 1, which is included in Attachment A. A copy of the proposed Contract Amendment No. 1 detailing GEI's scope of work and a breakdown of the associated proposed fee, is included in Attachment A as Exhibits A and B.

Mission Goal:

Meets Mission-Related Goal C, Regulatory and Environmental Compliance – Ensure long-term sustainability of all water sources within the District while complying with all regulations, Goal B, System Reliability – Ensure that the District's existing and planned water supply, conveyance, and recharge systems meet regional needs, including emergency response and Goal A, Water Supply - Ensure long-term water supply for all users.

Fiscal Impact:

There is currently no sufficient fund available in the Fiscal Year 2023/24 budget (CIP 8002, Account No. 051-400-81080-8002-815) to cover the proposed Contract Amendment No. 1 in the amount of \$1,158,211.00. A supplemental appropriation is required to cover the proposed fee. The EPA WIFIA low-interest loan in the amount of \$13.5M designated to the Santa Felicia Dam Safety Improvement Project is available to fund the supplemental appropriation. Transferring funds from the EPA WIFIA loan to CIP 8002, Account No. 051-400-81080-8002-815 will cover the proposed Amendment No. 1 fee.

Attachment:

Attachment A - Amendment No. 1 to the Professional Consulting Services Agreement with GEI Consultants Inc. for the Final Design of the Santa Felicia Dam Outlet Works Improvement Project.

AMENDMENT NO. 1
TO THE PROFESSIONAL CONSULTING SERVICES AGREEMENT

The Professional Service Agreement (hereinafter referred to as “Agreement”) for the purpose of providing professional design consultation services in connection with the **Development of Final Design Documents, Prepare Final Bid Documents, and Support Bid Phase of the Santa Felicia Dam Outlet Works Improvement Project (Project)**, made effective on **June 9, 2023** by and between the **United Water Conservation District (hereinafter “UNITED”)** and **GEI Consultants, Inc., (hereinafter “CONSULTANT”)** is hereby amended as follows:

SCOPE OF SERVICES

This Amendment (Amendment No. 1) dated **November 28, 2023** hereby provides for additional services generally described as Supplemental Design services as set forth in Exhibit “A”. CONSULTANT shall perform such services in addition to the scope of services as set forth in the Agreement.

CONTRACT TERM

Amendment No. 1 changes the term of the Agreement currently set to expire on July 15, 2024 to **December 31, 2024**.

COMPENSATION

The maximum not-to-exceed amount for the additional services authorized by Amendment No. 1 is **one million one hundred fifty-eight thousand and two hundred eleven dollars (\$1,158,211)**. Therefore, the maximum not-to-exceed amount of total charges for services authorized by the Agreement and Amendment No. 1 is \$2,026,191 as follows:

<u>Item</u>	<u>Amount (Not-To-Exceed)</u>
Original Agreement	\$867,980
Amendment No. 1 (incl. 4.7% of total fee for optional tasks and 17.3% contingency)	\$1,158,211
Total	\$2,026,191

CONSULTANT shall complete those tasks specified in the Agreement and this amendment and provide all services shown on Exhibit “A” within this maximum not-to-exceed authorization. A detailed schedule of charges is provided in Exhibit “B.”

The conditions of the original Agreement dated June 9, 2023 shall remain enforce except as amended herein.

UNITED WATER CONSERVATION DISTRICT

By _____
Mauricio E. Guardado, Jr., General Manager

GEI CONSULTANTS, INC.

By Thomas O. Keller
Thomas O. Keller, Vice President

AMENDMENT NO. 1

TO THE PROFESSIONAL CONSULTING SERVICES AGREEMENT

EXHIBIT “A” – ADDITIONAL SERVICES

Consulting
Engineers and
Scientists

November 28, 2023
Project 1607100

Maryam Bral, Ph.D., P.E.
Chief Engineer
United Water Conservation District
1701 N. Lombard Street, Suite 200
Oxnard, CA 93030

**Re: Agreement for Professional Consulting Services for Development of the Final
Design Phase of the Santa Felicia Dam Outlet Works Improvement Project, Prepare
Final Bid Documents and Support Bid Phase
Purchase Order No. 02027
Proposal for Amendment No. 1**

Dear Dr. Bral:

This letter is a proposal to provide additional professional consultation services to United Water Conservation District (UWCD) for the final design phase of the Santa Felicia Dam Outlet Works Improvement Project (Project). The additional services would be performed as Amendment No. 1 to the subject Agreement for Professional Consulting Services. Our proposed Amendment No. 1 containing a scope of work, schedule, and fee estimate for the additional services is attached.

The proposed scope of work was developed in response to changes in the Project that have occurred following the start of the final design phase of the Project on June 9, 2023. The main changes are related to UWCD's request to increase the number of high-flow intakes from four to six, the need to address Board of Consultants (BOC) comments on the 90% design received from the BOC on June 22, 2023, engineering support for revisions to environmental documents, expansion of a potential failure modes analysis workshop to comply with Federal Energy Regulation Commission requirements, and inclusion of indicative designs in construction plans and specifications to reduce the potential for contractor claims during construction.

If you have any questions on this proposal, please feel free to contact me at 760-795-1972.

Sincerely,

GEI CONSULTANTS, INC.



Thomas O. Keller, P.E., G.E.
Project Manager

Attachment

**AMENDMENT NO. 1 TO AGREEMENT FOR
PROFESSIONAL CONSULTING SERVICES FOR
DEVELOPMENT OF THE FINAL DESIGN PHASE OF THE
SANTA FELICIA DAM OUTLET WORKS
IMPROVEMENT PROJECT, PREPARE FINAL BID
DOCUMENTS AND SUPPORT BID PHASE**

CONSULTANT shall provide additional professional consultation services for the final design phase of the **Santa Felicia Dam Outlet Works Improvement Project** in accordance with the following scope of work, schedule, and fee estimate.

SCOPE OF WORK

The scope of work of Amendment 1 consists of Base Services, Optional Services, and Contingency Services to complete the final design phase of the Santa Felicia Dam Outlet Works Improvement Project. Performance of Optional Services and Contingency Services shall only be performed if approved in writing by United Water Conservation District (UWCD),

The scope of work for Base Services, Optional Services, and Contingency Services is presented below.

BASE SERVICES

Task 1 – Sloping Intake Redesign

The sloping intake design will be modified to increase the number of high-flow intakes from four to six to allow UWCD increased flexibility in operation of the reservoir. The lowermost intake elevation will remain the same as in the 90% design (El 953) and the elevations of the remaining intakes will be determined based on hydraulic analysis, design considerations, and input from UWCD. A Technical Memorandum (TM) will be prepared to document the justification for increasing the number of high-flow intakes from four to six, and the rationale for the final elevations of the six intakes.

The lowermost four intakes will be designed to be operational with connections to ball valves. The uppermost two intakes will be designed with flanged pipe connections such that they can be made operational in the future should the lowermost valves become nonoperational due to reservoir sedimentation.

The sloping intake slab will be structurally redesigned to accommodate six high-flow intakes. The finite element model of the slab and rock anchor layout will be revised for the new geometry. Structural analyses will be performed to determine loads on anchors and slab sections. Strength design of the reinforced concrete slab will be performed to resist applied loads. Rock anchor depths will be determined for various sections of the slab. Details of reinforcing steel layout and joint configurations will be determined. The structural analysis of the slab will be documented in a TM.

The 90% design drawings will be revised to reflect the new design of the sloping intake slab. Two new plan drawings will be developed and 30 existing drawings will be revised. The drawings will be prepared to a 100% level of completion.

Task 2 – Sloping Intake Geotechnical Baseline Report

Geotechnical baselines for sloping intake construction will be prepared for inclusion in the construction contract documents. The geotechnical baselines for sloping intake construction and the geotechnical baselines for tunnel construction developed previously will be documented in one comprehensive Geotechnical Baseline Report (GBR). The GBR will establish a contractual baseline for the ground conditions expected to be encountered during construction of the sloping intake and tunnel. The baseline conditions stated in the GBR will be used as a basis for contractors to develop construction bids and select their means, methods and equipment for construction of the sloping intake and tunnel. The baselines will also be used for evaluating potential differing site conditions during construction.

Geologic reconnaissance of the sloping intake area will be performed to obtain additional information on the character of materials at the site. Information obtained from the geologic reconnaissance and geologic and geotechnical data obtained during previous subsurface explorations of the site will be used to develop geotechnical baselines for the sloping intake construction. Geologic plan and section views of the sloping intake area will be developed. Geotechnical data specific to the sloping intake area will be summarized.

A draft GBR will be prepared for review by UWCD and finalized to incorporate UWCD comments.

Task 3 – Additional Analyses

The following additional analyses will be performed:

Temporary Discharge Channel Analyses – The temporary discharge channel was realigned following completion of 90% design to avoid impacts to sensitive habitat at its entrance to lower Piru Creek. Three-dimensional computation fluid dynamics modeling of the realigned temporary discharge channel will be performed. The modeling will include evaluation of hydraulic parameters at the confluence of the temporary discharge channel and lower Piru Creek.

Transient Analyses – Transient analyses of the outlet works system will be performed to consider the revised elevations of the high-flow intakes. The analyses will be performed for the recommended closure times for valves. A sensitivity analysis will be performed for the case of flows through the outlet works system at its maximum capacity which is higher than the maximum design flows. The results of the analyses will be documented in a TM.

Tunnel Groundwater Inflow Analyses – Additional groundwater inflow analyses will be performed to estimate seepage rates into the tunnel excavation for various reservoir elevations. The results of the analyses will be included in the GBR for the tunnel.

Task 4 – Document Revisions

The following reports and TMs will be revised:

Basis of Design Report and Design Report – These reports will be revised to reflect the changes made to the design following completion of the 90% design. These include modification of the number and elevations of the high-flow intakes, modification of the location and length of the debris boom, realignment of the temporary discharge channel, relocation of a temporary bridge across lower Piru Creek, addition of the sloping intake GBR, and addition of indicative designs of project components.

Geotechnical Baseline Report for Tunnel – The GBR previously developed for tunnel construction will be updated to reflect additional groundwater inflow analyses; indicative designs of temporary excavation support systems, and inclusion of historical information on tunnels constructed through the Modelo Formation. The GBR will also include geotechnical baselines for sloping intake construction as described in Task 2.

Hydraulic Analysis TM – The Hydraulic Analysis TM developed during the 10% design phase will be revised to reflect modifications to the number and elevations of the high-flow intakes, as well as incidental modifications made to the hydraulic system during subsequent design phases such as lengths and diameters of pipes. The revised TM will include an updated outlet works capacity curve and updated emergency drawdown curve.

Constructability Evaluation Report – The 90% Constructability Evaluation Report will be revised to reflect modifications to the number and elevations of the high-flow intakes, relocation of the temporary bridge across lower Piru Creek, realignment of the temporary discharge channel, relocation of the debris boom, and revisions to the size and locations of construction staging areas.

Task 5 – Additional Designs

The following additional designs will be performed and included in the final plan drawings and specifications:

Debris Boom – The debris boom will be redesigned to be located in front of the sloping facility only, and not span across the entire width of the reservoir.

Temporary Discharge Channel – The alignment of the temporary discharge channel will be revised to enter lower Piru Creek south of a designated habitat area in lower Piru Creek that must be protected and irrigated for the duration of UWCD's FERC license.

Indicative Designs – Indicative designs will be provided for the temporary construction bridge across lower Piru Creek, temporary haul road for access to the sloping intake excavation, tunnel excavation support systems, tunnel portal and excavation support systems, and pre-excavation grouting system for tunnel construction. The contractor will be required to submit design submittals for these indicative design elements.

Task 6 – Design Potential Failure Modes Analysis Workshop

The Consultant will participate in a potential design failure modes analysis (PFMA) workshop to be facilitated by others. The workshop will cover the design of both the outlet works improvement project and spillway improvement project. The Consultant will provide seven

subject matter experts (SMEs) in the following disciplines: dam safety, hydrology, hydraulics, geology, structural, civil, and electrical.

The SMEs will participate in a four-day workshop to be held at UWCD's office in Oxnard, CA. Five SMEs will participate in person and two SMEs will participate virtually. SMEs will also participate in a one- to two-day follow-up workshop if determined to be needed by UWCD. The follow-up workshop would be attended virtually by all SMEs.

The Consultant will prepare PowerPoint presentations to summarize the design of the outlet works improvement project and spillway improvement project. The presentations will be given at the in-person workshop. SMEs will review relevant materials prior to the workshop and review and comment on a Draft Design PFMA Report prepared by others.

Task 7 – Project Management and Coordination

This task includes the following additional project management and coordination to support the final design effort:

- Project management for an additional 4.5-month period.
- Additional coordination with Southern California Edison on electrical and hydropower systems.
- Design workshop with UWCD Operations & Maintenance staff.
- Partnering workshops with UWCD and UWCD's other consultants.
- Responses to construction manager comments on 90% design documents.
- Additional attendance at Board of Consultants Meeting No. 9.
- Support for Industry Day for prospective contractors.
- Support for preparation of contractor pre-qualification documents.
- Assistance to UWCD in updating UWCD's front-end specifications.
- Updates to Exhibit F of UWCD's application to FERC for a license amendment.
- Support to UWCD for revisions to the Biological Assessment document and development of supplemental CEQA documents.

OPTIONAL SERVICES

Optional services include the following items that may be requested by UWCD:

Update Fish Screen Design TM – The fish screen design TM was prepared during the 30% design phase. This optional service would consist of updating the TM to include fish screen analyses performed during subsequent design phases, and to reflect modifications to the number and elevations of the high-flow intakes.

Security Fence Design – UWCD is evaluating the need for a security fence around the new downstream control facility. This optional service would consist of adding a security fence and associated access gates to the construction plans and specifications.

Spillway Improvement Design Coordination – The 60% design of the spillway improvement project was completed in October 2023. The 90% design phase is expected to start in July 2024. This optional task consists of coordination with the spillway design team prior to the start of 90%

design of the spillway improvement project to address potential regulator comments on the spillway work that affects implementation of the outlet works improvement project.

CONTINGENCY SERVICES

There is a potential that the PFMA to be held in January 2024 and/or comments made by regulators on the 90% design will result in the need to modify the design of the outlet works improvement project. It is possible that no design modifications will be required. However, an allowance budget of \$200,000 is provided to make design modifications, if needed and approved by UWCD.

SCHEDULE

The expiration date of the Agreement is changed from July 15, 2024 to December 31, 2024.

CONSULTANT shall provide professional consultation services for the Final Design for the Santa Felicia Dam Outlet Works Improvement Project in accordance with the revised schedule below.

Item	Approximate Date
Submit 100 Percent Design Packet for UWCD, FERC, DSOD, and BOC Review	4/16/2024
Participate in BOC Meeting No. 9	5/1-2/2024
Receive Comments on 100 Percent Design from All Entities	8/20/2024
Submit Bid Documents to UWCD for Submission to FERC and DSOD for Approval (Optional)	TBD
Receive FERC and DSOD Approval of Bid Documents (Optional)	TBD
Submit Final Bid Documents for Advertisement for Bids (Optional)	TBD
UWCD Advertise for Bids (Optional)	TBD
Complete Bid Phase Support (Optional)	TBD

UWCD = United Water Conservation District
FERC = Federal Energy Regulatory Commission
DSOD = California Division of Safety of Dams
BOC = Board of Consultants
TBD = To be determined

FEE ESTIMATE

Task	Fee Estimate
BASE SERVICES	
Task 1 – Sloping Intake Redesign	\$124,770
Task 2 – Sloping Intake Geotechnical Baseline Report	\$79,634
Task 3 – Additional Analyses	\$78,804
Task 4 – Document Revisions	\$101,744
Task 5 – Additional Designs	\$156,528
Task 6 – Potential Failure Modes Analysis Workshop	\$116,719
Task 7 – Project Management and Coordination	\$245,178
TOTAL BASE SERVICES – TASKS 1 TO 7	\$903,377
OPTIONAL SERVICES	\$54,834
CONTINGENCY SERVICES	\$200,000
TOTAL	\$1,158,211

AMENDMENT NO. 1

TO THE PROFESSIONAL CONSULTING SERVICES AGREEMENT

EXHIBIT “B” – ADDITIONAL SERVICES

<u>Personnel Category</u>	<u>Hourly Billing Rate</u> <u>\$ per hour</u>
Staff Professional – Grade 1	\$ 139
Staff Professional – Grade 2	\$ 152
Project Professional – Grade 3	\$ 167
Project Professional – Grade 4	\$ 187
Senior Professional – Grade 5	\$ 221
Senior Professional – Grade 6	\$ 251
Senior Professional – Grade 7	\$ 298
Senior Consultant – Grade 8	\$ 334

Senior Drafter and Designer	\$ 167
Drafter / Designer and Senior Technician	\$ 152
Field Professional	\$ 125
Technician, Word Processor, Administrative Staff	\$ 124
Office Aide	\$ 97

These rates are billed for both regular and overtime hours in all categories.

Rates will increase up to 5% annually, at GEI's option, for all contracts that extend beyond twelve (12) months after the date of the contract. Rates for Deposition and Testimony are increased 1.5 times.

OTHER PROJECT COSTS

Subconsultants, Subcontractors and Other Project Expenses - All costs for subconsultants, subcontractors and other project expenses will be billed at cost plus a 15% service charge. Examples of such expenses ordinarily charged to projects are subcontractors; subconsultants: chemical laboratory charges; rented or leased field and laboratory equipment; outside printing and reproduction; communications and mailing charges; reproduction expenses; shipping costs for samples and equipment; disposal of samples; rental vehicles; fares for travel on public carriers; special fees for insurance certificates, permits, licenses, etc.; fees for restoration of paving or land due to field exploration, etc.; state and local sales and use taxes and state taxes on GEI fees. The 15% service charge will not apply to GEI-owned equipment and vehicles or in-house reproduction expenses.

Billing Rates for Specialized Technical Computer Programs – Computer usage for specialized technical programs will be billed at flat rates established in the Agreement. Flow3D software modeling runs will be billed at \$2,000 per run.

Field and Laboratory Equipment Billing Rates – GEI-owned field and laboratory equipment such as pumps, sampling equipment, monitoring instrumentation, field density equipment, portable gas chromatographs, etc. will be billed at a daily, weekly, or monthly rate, as needed for the project. Expendable supplies are billed at a unit rate.

Transportation and Subsistence - Automobile expenses for GEI or employee owned cars will be reimbursed per the Travel Expenses provisions included in Exhibit B.

Tolls and parking charges will be billed directly. When required for a project, four-wheel drive vehicles owned by GEI or the employees will be billed at a daily rate appropriate for those vehicles. Per diem living costs for personnel on assignment away from their home office will be negotiated for each project.



Staff Report

To: Engineering and Operations Committee Meeting

Through: Mauricio E. Guardado, Jr., General Manager
Maryam Bral, Chief Engineer
Craig Morgan, Engineering Manager

From: Hannah Garcia-Wickstrum, Environmental Scientist

Date: November 28, 2023 (December 7, 2023 Committee Meeting)

Agenda Item: **3.2 Approve Resolution Determining the Three Barrel Culvert Replacement Project is Exempt from the Provisions of the California Environmental Quality Act and Approve the Project Board Motion**

Staff Recommendation:

The Committee will consider recommending approval to the Board a Resolution determining that the Three Barrel Culvert Replacement Project (Project) is exempt from the provisions of the California Environmental Quality Act ("CEQA") and approving the Project, and direct staff to file the Notice of Exemption in accordance with CEQA.

Discussion:

The District is the lead agency for the proposed Project under CEQA. The proposed Project consists of replacing an existing three barrel culvert structure with a cast-in-place 14'x7' double box culvert structure within the Main Canal downstream of the desilting basin near the District's Saticoy maintenance yard. The proposed Project involves negligible or no expansion of existing or former use and negligible or no expansion of capacity.

The Project is categorically exempt from review under CEQA pursuant to State CEQA Guidelines (Cal. Code Regs., tit. 14, § 15000 et seq.) Section 15301 "Existing Facilities" (Class 1) and Section 15302 "Replacement or Reconstruction" (Class 2). The District has reviewed the proposed Project and has determined that none of the exceptions to categorical exemption set forth in CEQA Guidelines Section 15300.2 apply.

Mission Goal:

Meets mission-related Goal B (System Reliability) and Goal C (Regulatory & Environmental Compliance).

Agenda Item 3.2 Approve Resolution Determining the Three Barrel Culvert Replacement Project (“Project”) is Exempt from the Provisions of the California Environmental Quality Act and Approve the Project Board Motion

Fiscal Impact:

The County Clerk and Recorder’s Office filing fee for the CEQA NOE is \$50.00 which is included in the Adopted Fiscal Year 2023-24 Budget under project account 051-400-81020; 8018-815.

Attachment A – Resolution

Attachment B – Notice of Exemption

RESOLUTION

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE UNITED WATER CONSERVATION DISTRICT DETERMINING THAT THE THREE BARREL CULVERT REPLACEMENT PROJECT (“PROJECT”) IS EXEMPT FROM THE PROVISIONS OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT AND APPROVING THE PROJECT

WHEREAS, pursuant to the proposed Project the United Water Conservation District (“District”) intends to replace the three-barrel culvert structure with a cast-in-place 14’x7’ double box culvert structure within the Main Canal near the District’s Saticoy maintenance yard; and

WHEREAS, the proposed Project will provide improved drainage, remove a restriction within the canal system, and replace an aging culvert; and

WHEREAS, the proposed Project will be performed upstream of the District’s Saticoy maintenance yard and involves negligible or no expansion of existing or former use and negligible or no expansion of capacity; and

WHEREAS, the District has reviewed the provisions of the California Environmental Quality Act (“CEQA”) (Pub. Resources Code, § 21000 et seq.) and the State CEQA Guidelines (Cal. Code Regs., tit. 14, § 15000 et seq.); and

WHEREAS, the CEQA Guidelines Section 15301 (Class 1 Existing Facilities) categorical exemption applies to the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing facilities of both investor and publicly owned utilities used to provide electric power, natural gas, sewerage or other public utility services if the project involves negligible or no expansion of existing or former use; and

WHEREAS, the CEQA Guidelines Section 15302 (Class 2 Replacement or Reconstruction) categorical exemption applies to the replacement or reconstruction of existing structures and facilities where the new structure will be located on the same site as the structure replaced and will have substantially the same purpose and capacity as the structure replaced, including, but not limited to, the replacement or reconstruction of existing utility systems and/or facilities involving negligible or no expansion of capacity; and

WHEREAS, the District has reviewed the proposed Project and has determined that it is categorically exempt from the provisions of CEQA pursuant to CEQA Guidelines Section 15301 (Class 1 Existing Facilities) and Section 15302 (Class 2 Replacement or Reconstruction); and

WHEREAS, the District has reviewed the proposed Project and has determined that none of the exceptions to categorical exemption set forth in CEQA Guidelines Section 15300.2 apply.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE UNITED WATER CONSERVATION DISTRICT AS FOLLOWS:

1. The District's Board of Directors hereby finds and determines that the proposed Project is exempt from the provisions of CEQA. Specifically, the Board of Directors finds and determines that the proposed Project is categorically exempt pursuant to the Class 1 Existing Facilities and Class 2 Replacement or Reconstruction exemptions (CEQA Guidelines § 15301 and § 15302, respectively).

2. The District's Board of Directors hereby finds and determines that none of the exceptions to categorical exemption set forth in CEQA Guidelines Section 15300.2 apply.

3. The District's Board of Directors hereby approves the proposed Project and authorizes its implementation when deemed appropriate by the General Manager.

4. The Board hereby authorizes and directs the District's Environmental Services Manager to file a Notice of Exemption for the Project in accordance with CEQA.

5. The foregoing recitals are true and correct and incorporated herein as if fully set forth.

PASSED, APPROVED AND ADOPTED this 13th day of December 2023.

ATTEST:_____

Bruce E. Dandy, Board President

ATTEST:_____

Lynn E. Maulhardt, Board Secretary/Treasurer

NOTICE OF EXEMPTION

To:

Ventura County Clerk
800 South Victoria Ave.
Ventura, CA 93009

From:

United Water Conservation District
1701 North Lombard Street, Suite 200
Oxnard, CA 93030

Project Title: Three Barrel Culvert Replacement Project (Project)

Project Location: The address for Project site entry is 2641 West Los Angeles Avenue, Oxnard, CA 93030. The Project will be completed downstream of the Vern Freeman Diversion Facility near the unincorporated community of Saticoy in Ventura County, California. The Assessor Parcel Numbers are 090019006 (primary), 109001003, 090019008, 109001019, 090019007, and 109039024.

Name of Public Agency Approving Project (Lead Agency): United Water Conservation District

Name of Person or Agency Carrying Out Project: United Water Conservation District

Project Description: United Water Conservation District (United) proposes to replace an existing triple barrel culvert structure in the Main Canal with a cast-in-place 14'x7' double box culvert structure (Figure 1). The Main Canal is a controlled engineered system that conveys diverted flows from the Freeman Diversion to the downstream groundwater recharge basins. The Project is located upstream of United's Saticoy maintenance yard and crosses the existing Santa Clara River Levee, which is owned and operated by the Ventura County Watershed Protection District. The Project would involve removing the current three barrel culvert structure, constructing cast-in-place culvert and wingwall structures, installing slide gates, reconstructing the crossing drainage facility, installing rock slope protection, backfilling filling, and restoring the disturbed roads. A temporary bypass system may also be constructed to allow diversion operations to continue during construction. The temporary bypass system would likely consist of diesel pumps, HDPE piping, and in-channel flow stops. The Project requires grading 0.6-acre and a 0.25-acre contractor staging area. Construction activities will occur within United's existing civil infrastructure and access roads. The goal of the Project is to provide improved drainage, remove a restriction in the canal system, and replace an aging culvert. The Project involves the replacement or reconstruction of existing publicly-owned utility systems and/or facilities with negligible or no expansion of existing or former use and negligible or no expansion of capacity.

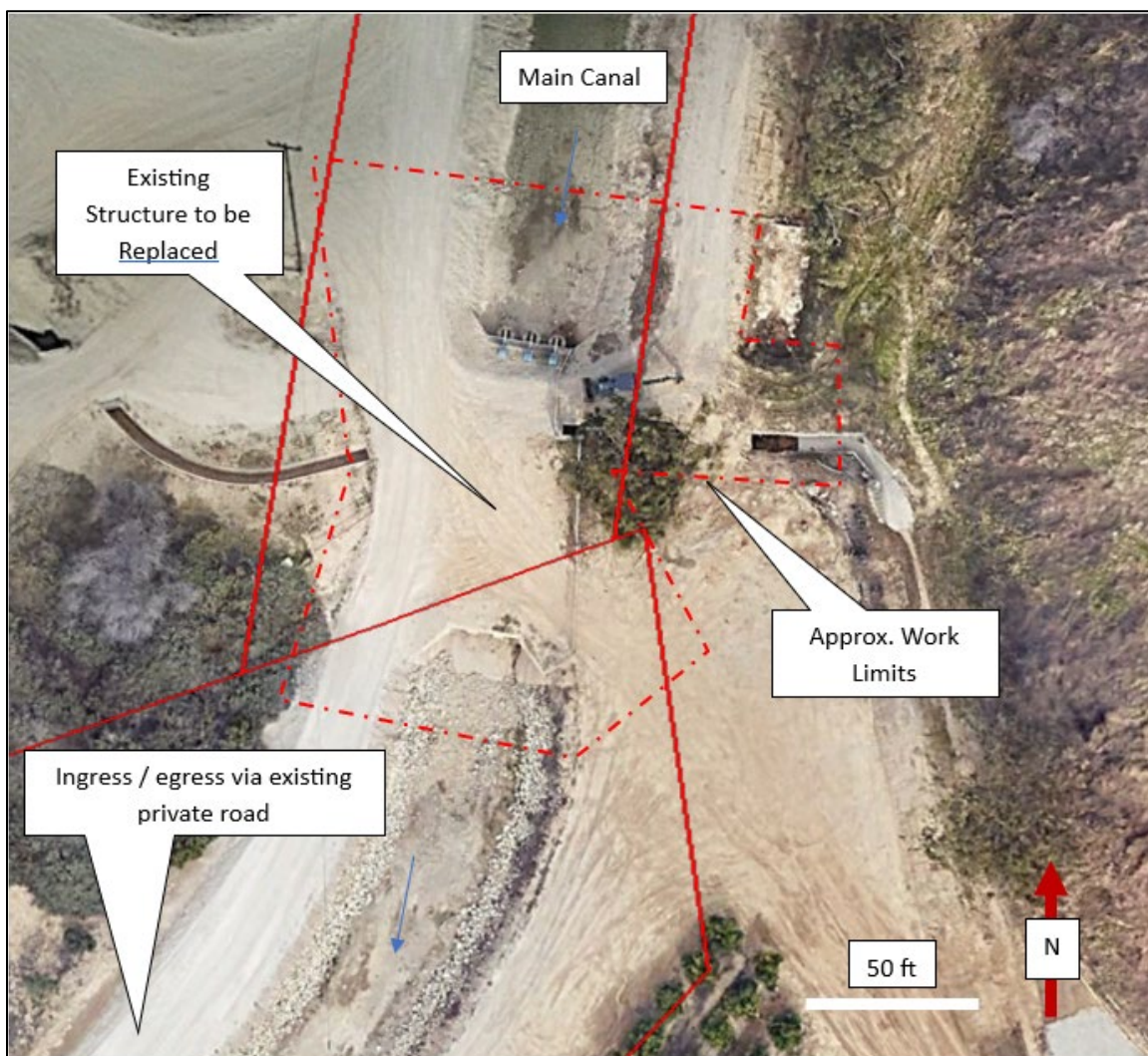


Figure 1. Three Barrel Culvert Replacement Project location.

Exempt Status:

- ☐ Ministerial (Sec. 21080(b)(1); 15268)
☐ Declared Emergency (Sec. 21080(b)(3); 15269(a))
☐ Emergency Project (Sec. 21080(b)(4); 15269(b)(c))
☒ Categorical Exemptions: Class 1, Guidelines § 15301 – Existing Facilities; Class 2, Guidelines § 15302 – Replacement or Reconstruction
☐ Statutory Exemption
-

Reasons Why Project is Exempt:

The Project is categorically exempt from the provisions of the California Environmental Quality Act (CEQA) pursuant to State CEQA Guidelines (Cal. Code Regs., tit. 14, § 15000 et seq.) Section 15301 *Existing Facilities* (Class 1) and Section 15302 *Replacement or Reconstruction* (Class 2).

The Section 15301 *Existing Facilities* exemption applies to the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing facilities of both investor and publicly owned utilities used to provide electric power, natural gas, sewerage or other public utility services if the project involves negligible or no expansion of existing or former use.

The Section 15302 *Replacement or Reconstruction* exemption applies to the replacement or reconstruction of existing structures and facilities where the new structure will be located on the same site as the structure replaced and will have substantially the same purpose and capacity as the structure replaced, including, but not limited to, the replacement or reconstruction of existing utility systems and/or facilities involving negligible or no expansion of capacity.

None of the exceptions to categorical exemption set forth in CEQA Guidelines Section 15300.2 apply.

Lead Agency Contact Person: Maryam Bral, Chief Engineer
Telephone: 805-525-4431
Email: MaryamB@unitedwater.org

Marissa Caringella
Environmental Services Manager
United Water Conservation District

Date

Date OPR received for filing: _____



Staff Report

To: Engineering and Operations Committee Meeting

Through: Mauricio E. Guardado, Jr., General Manager
Maryam Bral, Chief Engineer
Craig Morgan, Engineering Manager

From: Hannah Garcia-Wickstrum, Environmental Scientist

Date: November 28, 2023 (December 7, 2023 Committee Meeting)

Agenda Item: **3.3 Approve Resolution Determining the Inverted Siphon Replacement Project (“Project”) is Exempt from the Provisions of the California Environmental Quality Act and Approve the Project Board Motion**

Staff Recommendation:

The Committee will consider recommending approval to the Board a Resolution, determining that the Inverted Siphon Replacement Project (“Project”) is exempt from the provisions of the California Environmental Quality Act (“CEQA”) and approving the Project, and directing staff to file the Notice of Exemption in accordance with CEQA.

Discussion:

The District is the lead agency for the proposed Project under CEQA. The proposed Project consists of replacing an inverted siphon culvert structure by constructing a precast bridge culvert structure within the Main Canal near the District’s Satcoy maintenance yard. The proposed Project involves negligible or no expansion of existing or former use and negligible or no expansion of capacity.

The Project is categorically exempt from review under CEQA pursuant to State CEQA Guidelines (Cal. Code Regs., tit. 14, § 15000 et seq.) Section 15301 “Existing Facilities” (Class 1) and Section 15302 “Replacement or Reconstruction” (Class 2). The District has reviewed the proposed Project and has determined that none of the exceptions to categorical exemption set forth in CEQA Guidelines Section 15300.2 apply.

Mission Goal:

Meets mission-related Goal B (System Reliability) and Goal C (Regulatory & Environmental Compliance).

**Agenda Item 3.3 Approve Resolution Determining the Inverted Siphon Replacement Project (“Project”) is Exempt from the Provisions of the California Environmental Quality Act and Approve the Project
Board Motion**

Fiscal Impact:

The County Clerk and Recorder’s Office filing fee for the CEQA NOE is \$50.00 which is included in the Adopted Fiscal Year 2023-24 Budget under project account 051-400-81020; 8018-815.

Attachment A – Resolution

Attachment B – Notice of Exemption

RESOLUTION

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE UNITED WATER CONSERVATION DISTRICT DETERMINING THAT THE INVERTED SIPHON REPLACEMENT PROJECT (“PROJECT”) IS EXEMPT FROM THE PROVISIONS OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT AND APPROVING THE PROJECT

WHEREAS, pursuant to the proposed Project the United Water Conservation District (“District”) intends to replace an inverted siphon culvert structure by constructing a precast bridge culvert structure within the Main Canal near the District’s Saticoy maintenance yard; and

WHEREAS, the proposed Project will provide improved drainage, remove a restriction within the canal system, and replace an aging culvert; and

WHEREAS, the proposed Project will be performed near the District’s Saticoy maintenance yard upstream of the Saticoy well field and recharge basins and involves negligible or no expansion of existing or former use and negligible or no expansion of capacity; and

WHEREAS, the District has reviewed the provisions of the California Environmental Quality Act (“CEQA”) (Pub. Resources Code, § 21000 et seq.) and the State CEQA Guidelines (Cal. Code Regs., tit. 14, § 15000 et seq.); and

WHEREAS, the CEQA Guidelines Section 15301 (Class 1 Existing Facilities) categorical exemption applies to the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing facilities of both investor and publicly owned utilities used to provide electric power, natural gas, sewerage or other public utility services if the project involves negligible or no expansion of existing or former use; and

WHEREAS, the CEQA Guidelines Section 15302 (Class 2 Replacement or Reconstruction) categorical exemption applies to the replacement or reconstruction of existing structures and facilities where the new structure will be located on the same site as the structure replaced and will have substantially the same purpose and capacity as the structure replaced, including, but not limited to, the replacement or reconstruction of existing utility systems and/or facilities involving negligible or no expansion of capacity; and

WHEREAS, the District has reviewed the proposed Project and has determined that it is categorically exempt from the provisions of CEQA pursuant to CEQA Guidelines Section 15301 (Class 1 Existing Facilities) and Section 15302 (Class 2 Replacement or Reconstruction); and

WHEREAS, the District has reviewed the proposed Project and has determined that none of the exceptions to categorical exemption set forth in CEQA Guidelines Section 15300.2 apply.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE UNITED WATER CONSERVATION DISTRICT AS FOLLOWS:

1. The District's Board of Directors hereby finds and determines that the proposed Project is exempt from the provisions of CEQA. Specifically, the Board of Directors finds and determines that the proposed Project is categorically exempt pursuant to the Class 1 Existing Facilities and Class 2 Replacement or Reconstruction exemptions (CEQA Guidelines § 15301 and § 15302, respectively).

2. The District's Board of Directors hereby finds and determines that none of the exceptions to categorical exemption set forth in CEQA Guidelines Section 15300.2 apply.

3. The District's Board of Directors hereby approves the proposed Project and authorizes its implementation when deemed appropriate by the General Manager.

4. The Board hereby authorizes and directs the District's Environmental Services Manager to file a Notice of Exemption for the Project in accordance with CEQA.

5. The foregoing recitals are true and correct and incorporated herein as if fully set forth.

PASSED, APPROVED AND ADOPTED this 13th day of December 2023.

ATTEST: _____

Bruce E. Dandy, Board President

ATTEST: _____

Lynn E. Maulhardt, Board Secretary/Treasurer

NOTICE OF EXEMPTION

To:
Ventura County Clerk
800 South Victoria Ave.
Ventura, CA 93009

From:
United Water Conservation District
1701 North Lombard Street, Suite 200
Oxnard, CA 93030

Project Title: Inverted Siphon Replacement Project (Project)

Project Location: The address for Project site entry is 2641 West Los Angeles Avenue, Oxnard, CA 93030. The Project will be completed near United Water Conservation District's maintenance yard near the Saticoy well field and recharge basins (Assessor Parcel Number 109001003).

Name of Public Agency Approving Project (Lead Agency): United Water Conservation District

Name of Person or Agency Carrying Out Project: United Water Conservation District

Project Description: United Water Conservation District (United) proposes to replace an existing inverted siphon type culvert structure on the existing Main Canal with a precast bridge culvert structure (Figure 1). The Main Canal is a controlled engineered system that conveys diverted flows from the Freeman Diversion to downstream groundwater recharge basins. The Project is located near United's Saticoy maintenance yard upstream of the Saticoy well field and recharge basins. The Project involves removing the current inverted siphon culvert structure, constructing cast-in-place foundations, installing the precast bridge structure, rock slope protection, filling, and repaving the disturbed roads. A temporary bypass system may also be constructed to allow diversion operations to continue during construction. The temporary bypass system would likely consist of diesel pumps, HDPE piping, and in-channel flow stops. The Project requires grading 0.3 acre and a 0.25-acre contractor staging area. Construction activities will occur within United's existing civil infrastructure and access roads. The goal of the Project is to provide improved drainage through this section of the canal, remove a restriction in the canal system, and replace an aging culvert. The Project involves the replacement or reconstruction of existing publicly-owned utility systems and/or facilities with negligible or no expansion of existing or former use and negligible or no expansion of capacity.



Figure 1. Inverted Siphon Replacement Project Location.

Exempt Status:

- ☐ Ministerial (Sec. 21080(b)(1); 15268)
☐ Declared Emergency (Sec. 21080(b)(3); 15269(a))
☐ Emergency Project (Sec. 21080(b)(4); 15269(b)(c))
☒ Categorical Exemptions: Class 1, Guidelines § 15301 – Existing Facilities; Class 2, Guidelines § 15302 – Replacement or Reconstruction
☐ Statutory Exemption
-

Reasons Why Project is Exempt:

The Project is categorically exempt from the provisions of the California Environmental Quality Act (CEQA) pursuant to State CEQA Guidelines (Cal. Code Regs., tit. 14, § 15000 et seq.) Section 15301 *Existing Facilities* (Class 1) and Section 15302 *Replacement or Reconstruction* (Class 2).

The Section 15301 *Existing Facilities* exemption applies to the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing facilities of both investor and publicly owned utilities used to provide electric power, natural gas, sewerage or other public utility services if the project involves negligible or no expansion of existing or former use.

The Section 15302 *Replacement or Reconstruction* exemption applies to the replacement or reconstruction of existing structures and facilities where the new structure will be located on the same site as the structure replaced and will have substantially the same purpose and capacity as the structure replaced, including, but not limited to, the replacement or reconstruction of existing utility systems and/or facilities involving negligible or no expansion of capacity.

None of the exceptions to categorical exemption set forth in CEQA Guidelines Section 15300.2 apply.

Lead Agency Contact Person: Maryam Bral, Chief Engineer
Telephone: 805-525-4431
Email: Maryamb@unitedwater.org

Marissa Caringella
Environmental Services Manager
United Water Conservation District

Date

Date OPR received for filing: _____

Staff Report

To: Engineering and Operations Committee Members

Through: Mauricio E. Guardado, Jr., General Manager

From: Dr. Maryam Bral, Chief Engineer
Craig Morgan, Engineering Manager
Nathan Summerville, Senior Engineer

cc: Brian Zahn, Chief Financial Officer

Date: November 28, 2023 (December 7, 2023 Committee Meeting)

Agenda Item: **3.4 Authorize Approval of a Contract with HDR Engineers, Inc. to Develop the Final Design of the Freeman Conveyance System Upgrade – Freeman to Ferro Recharge Basin (CIP 8018)**
Board Motion

Staff Recommendation:

The Committee will consider recommending approval of the motion to the Board authorizing the General Manager to execute an agreement with HDR Engineers, Inc. (HDR) in the not to exceed amount of \$350,000.00 to develop the final design of the Freeman Conveyance System Upgrade – Freeman to Ferro Recharge Basin (Project).

Background:

United Water Conservation District (District) is in the process of designing a connection between the Noble Basin and Ferro Basin that will cross Vineyard Avenue. The Vineyard Avenue undercrossing is one component of the Freeman Conveyance System Upgrade – Freeman to Ferro Recharge Basin (Project). In October, the District contracted HDR under the existing On-Call Services Agreement to complete the Preliminary Design Report (PDR). HDR completed the draft PDR and the final PDR is expected at the end of December. A connection to Ferro will add 190 acres of new recharge area to the Freeman Conveyance System.

Discussion:

The draft PDR prepared by HDR concluded that three 5-foot diameter concrete pipes installed beneath Vineyard Avenue would be sufficient to transfer 375 cubic feet per second (cfs) from Noble to Ferro under both current and future hydraulic conditions. The goal is to begin construction by November 2024 to take advantage of the 2024/2025 water year. However, the critical path is the encroachment permit process with the California Department of Transportation (Caltrans) which can be lengthy. To expedite plan submittal to Caltrans, final design will begin immediately following the preliminary design phase. The District selected HDR for the preliminary design effort based on HDR's unique qualifications and familiarity with the project area. HDR is currently developing the final design of the City of Ventura's State Water Project (SWP) Interconnection

Agenda Item: 3.4 Authorize Approval of a Contract with HDR Engineers, Inc. to Develop the Final Design of the Freeman Conveyance System Upgrade Project – Noble to Ferro (CIP 8018)
Board Motion

Project, which will cross the District's proposed facility. HDR has already compiled site specific data including soil data, utility research, and survey information in the project area that will be used to support the design. After completing the Preliminary Design Report, HDR will move directly to the final design development and begin coordination with Caltrans.

Staff recommends execution of a contract with HDR for final design, permitting support, and bid support of the Project.

Mission Goal:

Meets Mission-Related Goal A, Water Supply and Goal B, System Reliability.

Fiscal Impact:

Sufficient funds to cover the proposed contract amount of \$350,000.00 are included in the Fiscal Year 2023/24 budget (Account No. 051-400-81020; 8018-815).

Staff Report

To: Engineering and Operations Committee Members

Through: Mauricio E. Guardado Jr., General Manager

From: Maryam Bral, Chief Engineer
Marissa Caringella, Environmental Services Manager
Evan Lashly, Senior Environmental Scientist

Date: November 28, 2023 (December 7, 2023 meeting)

Agenda Item: **3.5 Pre-implementation Studies in Support of Federal Energy Regulatory Commission Fish Passage Assessment – Amendment to Professional Consulting Services Agreement with Cramer Fish Sciences - \$196,054 Board Motion**

Staff Recommendation:

The Committee will consider recommending approval of the motion to authorize the General Manager to execute an amendment to the professional consulting services (PCS) agreement with Cramer Fish Sciences in the amount of \$196,054 to complete the field study activities outlined in the “Santa Felicia Dam Fish Passage Program Pre-Implementation Study Plan” to the full Board.

Background:

In April 2017, the District submitted a Fish Passage Feasibility Assessment Report for the Santa Felicia Project to the Federal Energy Regulatory Commission (FERC), National Marine Fisheries Service (NMFS) and California Department of Fish and Wildlife (CDFW). The Santa Felicia Project FERC license and 2008 biological opinion issued by NMFS require the District to evaluate fish passage feasibility and report the results. As noted in the report, implementation of trap and haul facilities (the preferred passage alternative identified by the panel of fish passage experts) is contingent on resolution of outstanding issues, including uncertainties regarding engineering and biological feasibility, and development of biological criteria that would trigger implementation.

On December 17, 2017, the District executed a contract with Cramer Fish Sciences to develop pre-implementation studies to address uncertainties. On March 20, 2018, Cramer Fish Sciences provided United with the “Santa Felicia Dam Fish Passage Program Pre-Implementation Study Plan” (study plan). The study plan outlines measures to fill in the following knowledge gaps associated with *Oncorhynchus mykiss* in middle Piru Creek: 1) population dynamics (number, size, and timing of fish movement); 2) the number and size class of *Oncorhynchus mykiss* that can be removed without jeopardizing the viability of the existing population; and 3) identify the most effective sampling methods, locations, and seasons. The study plan is structured as a three-year (i.e., phase) project. This work will result in high-caliber scientifically defensible research, lead to peer reviewed publication, form the foundation from which United can evaluate the efficacy of

Agenda Item: 3.5 Pre-implementation Studies in Support of Federal Energy Regulatory Commission Fish Passage Assessment – Amendment to Professional Services Agreement with Cramer Fish Sciences - \$196,054
Board Motion

interim passage operations, and provide information for establishing biological criteria for triggering development of permanent fish passage facilities.

United and Cramer Fish Sciences implemented this work in April 2018. The first phase project activities were completed during FY 2018-19. The second phase project activities were initiated in fall 2019, interrupted in March 2020 due to COVID-19, and completed in Spring 2022. The third phase project activities were initiated in Fall 2022, interrupted by storm flows and road damage in January 2023, and resumed in Fall 2023. The PCS agreement has been amended for each phase of the project and funding for the studies has been allocated on an annual basis.

Discussion:

The first phase of the study plan was aimed at gathering basic population dynamics information to inform the second phase of the study. The second phase of study was designed to be more extensive and included installation and monitoring of traps and electrofishing. The third phase of the study was designed to continue phase two activities to provide for two full years of information regarding trap operations (i.e., engineering feasibility) and fish movement (i.e., biological feasibility). Staff proposes to continue this third phase of study elements to complete the field components of the study plan; there may be a need for development of final reports during 2024-25. The proposed amendment would increase the contract by \$196,054 and result in a total revised not-to-exceed amount of \$1,897,177. The cost of replacing and reinstalling monitoring equipment lost during the January 2023 storm is not included in this amendment and is being reimbursed by the Federal Emergency Management Agency.

A copy of the Amendment to the PCS agreement detailing Cramer Fish Science's complete proposal, including the scope of work and deliverables, proposed fee, and the project schedule, is included in Attachment A.

Fiscal Impact:

Funding for the services to be conducted under the proposed amendment is available in the FY 2023-24 Budget (050-600-52220; 4340-300). If additional work is needed to complete final project reports, that funding would be included in FY 2024-25 Budget.

Attachment:

Attachment A – Eighth Amendment to the Professional Consulting Service Agreement with Cramer Fish Sciences

**EIGHTH AMENDMENT TO
AGREEMENT FOR PROFESSIONAL CONSULTING SERVICES**

This Amendment to the Agreement for Professional Consulting Services is entered into as of _____, 2023, by and between **United Water Conservation District (UNITED)**, a public entity, and **Cramer Fish Sciences (CONSULTANT)** with reference to the following terms and conditions:

WITNESSETH

WHEREAS, on December 17, 2017, UNITED and CONSULTANT entered into a Professional Consulting Services AGREEMENT for the purpose of developing a study plan and providing specific support in United's effort to pursue fish passage at the Santa Felicia Project, and subsequently entered into amendments to the AGREEMENT to implement the study plan including a FIRST AMENDMENT on May 11, 2018, a SECOND AMENDMENT on May 21, 2019, a THIRD AMENDMENT on June 19, 2019, a FOURTH AMENDMENT on July 11, 2019; a FIFTH AMENDMENT on July 13, 2021; a SIXTH AMENDMENT on December 16, 2021; a SEVENTH AMENDMENT on November 10, 2022, and;

WHEREAS, UNITED and CONSULTANT have discussed and agreed to amend certain terms and conditions of the AGREEMENT, the FIRST, SECOND, THIRD, FOURTH, FIFTH, SIXTH, and SEVENTH AMENDMENTS involving scope of work, and compensation as specified in this EIGHTH AMENDMENT.

NOW, THEREFORE, based on the covenants and considerations set forth, UNITED and CONSULTANT mutually agree as follows:

1. The not-to-exceed total charge described in the AGREEMENT the FIRST, SECOND, THIRD, FOURTH, FIFTH, SIXTH, and SEVENTH AMENDMENTS is hereby increased by \$196,054. This amendment results in a total revised not-to-exceed amount of: \$1,896,955 as total payment inclusive of all services.
2. The Scope of Work included as Exhibit A of the AGREEMENT, Attachment A of the FIRST AMENDMENT, Attachment A of the SECOND AMENDMENT, ITEM 2 of the THIRD AMENDMENT, Attachment A of the FOURTH AMENDMENT, Attachment A of the SIXTH AMENDMENT, and Attachment A of the SEVENTH AMENDMENT is hereby amended to include the Scope of Work included in Attachment A of this EIGHTH AMENDMENT.
3. The term of the AGREEMENT, the FIRST, SECOND, THIRD, FOURTH, FIFTH, SIXTH, and SEVENTH AMENDMENTS is hereby extended to expire on June 30, 2024.
4. Each and all other provisions of said AGREEMENT and the FIRST, SECOND, THIRD, FOURTH, FIFTH, SIXTH, and SEVENTH AMENDMENTS remain in full force and effect and apply to all services and payments made under this EIGHTH AMENDMENT.

UNITED WATER CONSERVATION DISTRICT

By _____
Mauricio E. Guardado, Jr., General Manager

CRAMER FISH SCIENCES

By _____
(Joseph E. Merz, President)



Staff Report

To: Engineering and Operations Committee Members

Through: Mauricio E. Guardado Jr., General Manager

From: Maryam A. Bral, Chief Engineer
Craig A. Morgan, Engineering Manager
Robert J. Richardson, Principal Engineer
Nathan Summerville, Senior Engineer
Michel Kadah, Engineer
Adrian Quiroz, Engineer
Kaili Taniguchi, Engineer

Date: November 28, 2023 (December 7, 2023, meeting)

Agenda Item: 4.1 Monthly Engineering Department Report
Information item

Staff Recommendation:

The Engineering and Operations Committee members will receive this summary report from the Engineering Department regarding its activities for the month of November 2023.

Discussion:

1. Santa Felicia Dam Safety Improvement Project

- Spillway Improvement Project
 - On October 31, Staff submitted 60% design technical memorandums, reports, plans, and specifications to FERC, DSOD, and the Board of Consultants (BOC) in preparation for the Santa Felicia Dam Safety Improvement Project BOC meeting No. 8.
 - A total of 28 individuals from FERC, DSOD, BOC, GEI, Black and Veatch and Staff attended the meeting in person or virtually. The meeting was held at the District headquarters on November 15 and 16. Staff provided the project status updates and GEI presented the 60% design documents to the BOC. After nearly a day of deliberation and prior to the conclusion of the two-day meeting on November 16, the BOC presented its findings and recommendations and received a number of comments and requests for clarification. The BOC will be submitting the final draft to Staff for review and comments. The final copy of the BOC report will be prepared by the BOC and submitted to FERC and DSOD by Staff.
- Outlet Works Improvement Project

4.1 Monthly Engineering Department Report Information Item

- On October 30, Staff prepared and submitted an updated and revised overall project schedule to FERC and DSOD. The updated and revised schedule includes the outlet works, spillway improvements and new release channel design and construction activities, with the construction start date for the new outlet works project in July 2025. The construction start date of July 2025 depends on the proposed completion of the regulatory compliance, permitting and consultations in the calendar year 2024.
 - Staff continued to schedule coordination meetings with GEI, Catalyst and Stantec to discuss various engineering and environmental topics as part of preparation of the revised Biological Assessment (BA) that is due to FERC in late December.
 - Staff commented on the revised Drilling Program Plan (DPP) that includes geotechnical field investigations along the proposed alignment of the new release channel to inform the release channel design. DPP approval by FERC is required prior to field work begins.
 - Staff received DSOD comments on the new intake facility slope stability modeling results and seismic load values included in the 60% design reports prepared by GEI. Staff and GEI met with DSOD in November to discuss DSOD's comments.
 - Staff met with GEI to discuss the proposed modifications to the final design plans and specifications that have resulted in an amendment to GEI's existing contract to complete the final design of the outlet works. Modifications are required to (1) optimize flow releases from the lake during future dry periods, (2) implement and respond to the Project Construction Manager, Black & Veatch's (BV) review comments on the constructability report and design plans in order to reduce risk and minimize change orders and cost overrun during construction, and (3) additional efforts required from GEI to complete a design Potential Failure Mode Analysis (PFMA) required by FERC prior to construction.
 - Staff participated in several meetings with BV to discuss the design PFMA meeting, and expectations during construction and construction bid strategies. The Design PFMA meeting is scheduled to be held at the District Headquarters on January 22-25, 2024. The 90% outlet works, and 60% spillway improvements designs will be discussed at this four-day meeting.
- FERC License Amendment Application, NEPA Documentation and the Endangered Species Act Section 7 Consultation
 - Please see the monthly Environmental Services Department staff report for updates on the Project's environmental compliance and permitting process.
 - Loan and Grant Applications
 - Staff and Grant Task Force (GTF) are considering various federal grant funding programs for the new outlet works and spillway improvement projects.

2. Condor Point Improvement Project

4.1 **Monthly Engineering Department Report** **Information Item**

- UWCD will utilize Gordian's Job Order Contracting service to retain a contractor for construction of the Condor Point Swim Beach. A pre-bid job walk was conducted with Gordian on October 26, 2023. Gordian submitted a work order package for this work on November 09, 2023. The deadline to construct the swim beach per FERC order is May 04, 2024.

3. Freeman Diversion Expansion

- Staff, consultants, special advisors, NMFS, CDFW and Wishtoyo participated in bi-weekly Operational Work Group meetings. At the completion of the meetings, the agencies requested and received a Gantt Chart outlining the critical dates required for completing the 60% Engineering Design and submittal of the MSHCP.
- Staff delivered a draft outline of the operational plan to NMFS and CDFW.

4. Iron and Manganese Treatment Facility

- Meetings:
 - Weekly coordination meetings between Staff and HDR.
 - GSE has submitted approximately 385 out of a total of 410 submittal packages anticipated for the project (many remaining submittals relate to project close-out). HDR and KJ have provided responses on approximately 375 submittal packages including a requirement to comply with the Buy American Act (BAA).
 - GSE has submitted approximately 147 RFIs to date. HDR, KJ and the District have been providing responses and 3 RFIs are currently open.
 - Forty-One (41) Change Orders (COs) have been fully executed to date amounting to a net total of \$1,470,222.18. This represents approximately 15.7% of the original contract amount (\$9,342,900). Four (4) of these COs amounting to \$662,910.19 or 7.1% of the original contract amount are directly related to compliance with the BAA which is a federal grant requirement (the project was not originally bid with this requirement in place) and \$807,311.99 or 8.6% of the original contract amount is related to all other COs that have resulted in additions or modifications to the original scope of work.
 - GSE in collaboration with the designer, KJ, continued working on resolving an issue with the operation of the air scour system. GSE is scheduled to be on site on November 28 and 29, 2023, to make a modification to the filter vessels air vacuum and air release valves that could potentially resolve this air scour system issue.
 - GSE's work in this reporting period included the following:
 - Punchlist Items
 - Air Scour System Troubleshooting
 - Asphalt Berm Construction
 - The facility startup and testing activities will continue in the next three months to comply with the Division of Drinking Water (DDW) requirements for demonstrating full treatment efficacy.
-

4.1 **Monthly Engineering Department Report** **Information Item**

5. PTP Metering Improvement Project

- Total number of meters installed: 48 of 60 or 80% complete (+2 meters).
- Additional five (5) meter installations are planned by late-2023 (Turnout Nos. 102, 114, 132, 134, 161).
- Easement acquisition completion: 33 of 40 obtained or 82.5% complete.

6. PTP Recycled Water Connection – Laguna Road Pipeline Project

- No updates to report.

7. Rice Avenue Grade Separation Project and Impact on PTP

- On October 12, the Chief Engineer and the Engineering Manager provided two individual declarations to the Counsel regarding a motion for order to possess filed by CalTrans against Pegh Investments, LLC (Pegh) and other private companies and public agencies including United in the Ventura County. United holds easement deeds on the property owned by Pegh. The court hearing is scheduled for December 6, 2023.

8. State Water Project (SWP) Interconnection Pipeline Project

- Staff have started the review of the 90% project plans, specifications and cost estimates. The comments are due to the City by December 4, 2023.

9. Freeman Conveyance System Upgrade - Freeman to Ferro

- Authority for the General Manager to execute a contract for up to \$350,000 with HDR Engineering, Inc. for final design, permitting support, and bid support for the connection between Noble and Ferro is pending Board approval. Preparation of permit plans for submission to Caltrans would begin immediately after completion of the Final Preliminary Design Report, which is expected in late December.
- Execution of a resolution for a Notice of Exemption under CEQA is pending Board approval for both the replacement of the Three Barrel Culvert and for the replacement of the Inverted Siphon. The projects have independent utility and are being considered individually with separate permitting and construction schedules.

10. Extraction Barrier and Brackish Water Treatment Project

- Agreements:
 - New Monitoring Wells: An amendment is needed to an existing license agreement that covers access, maintenance, operation, and data collection for existing monitoring wells (22, A1, A-2, CM-1, CM-2, CM-1A, CM-6 and Q2). The amendment will include new monitoring wells (EM-1 through 5) planned for installation in 2024. Minor adjustments to the site locations have been requested by the Navy and are currently under review by District staff. This amendment is pending site approval by the Navy which is expected to be done by late-2023.
 - The Memorandum of Agreement (MOA) between UWCD and the Navy that develop roles and responsibilities for the Phase 1 project was fully executed on November 9,

4.1 Monthly Engineering Department Report Information Item

2023. A brief overview of the MOA will be presented to the Board of Directors as an informational item at the December 2023 meeting.
- The draft Letter of Request (LOR) initiating the Navy's real estate process for an outgrant easement for the Phase 1 project is currently in review by the Navy.
 - Grants:
 - The District is currently working with the State Water Resources Control Board (SWRCB) Division of Financial Assistance (DFA) staff in development of a grant agreement for the \$8,449,062 Groundwater Grant Program (GWGP) grant that was approved on March 6, 2023, for the Phase 1 project. Execution of the grant agreement is anticipated by December 2023.
 - Upon request by the SWRCB DFA, District staff provided a presentation of the project at the November 16th Board Meeting.
 - Meetings:
 - Held weekly internal meetings between Engineering, Environmental, and Water Resources staff to discuss progress on agreements with the Navy (MOA, Outgrant Easement), grants (SGM, GWGP), CEQA/NEPA documentation preparation, permitting agency engagement, discharge, and pipeline alternatives evaluation, well site suitability analysis, coastal water quality sampling and groundwater flow modeling.
 - Held monthly NEPA/CEQA "Drumbeat" meetings with District, ESA Consultants and Navy NEPA staff and Subject Matter Experts (SMEs).
 - District staff held two progress meetings with the Phase 1 project design team, KJ.
 - District staff held four progress meetings with the Phase 1 project CEQA and permitting team, ESA Consultants.
 - Held one monthly progress meeting with Navy staff.
 - Design:
 - The Well Site Suitability TM is currently under development and will include an evaluation of well construction and development options.
 - Kennedy/Jenks Consultants (K/J) has proposed an equipment pre-procurement approach for long-lead time procurements to meet the GWGP grant requirement of construction completion by February 2026. K/J and District Staff are currently developing a plan including completing a list of equipment and further developing the basis of design.
 - CEQA/NEPA/Permits:
 - Please see the Monthly Environmental Services Department Report for updates on the Project's environmental compliance and permitting process.
 - Geotech/Hydrogeology:
-

4.1 Monthly Engineering Department Report Information Item

- District Staff has successfully negotiated a scope of work and fee with Earth Systems and will be working towards executing a Professional Services Agreement with geotechnical exploration activities starting in early 2024.

11. Asset Management/ CMMS System

- No updates to report.

12. OH Water Well No.20

- No updates to report.

13. OH Well 14 Energy Efficiency Upgrade

- A request for proposals was sent to six firms on November 3. The firms were pre-selected based on the statement of qualifications received during United's On-Call process. The scope will include preliminary and final design activities to replace the existing 12 inch well discharge pipe with an 18 inch well discharge pipe. Proposals are due December 1st. Staff conducted a pre-proposal meeting on November 17 with perspective firms. Two firms attended.

14. Other Topics, Meetings and Training

- November 16 - Craig Morgan, Robert Richardson, and Nathan Summerville attended the AWA / CCWUC Waterwise meeting titled "The Three Big Water Agencies General Manager Update".



Staff Report

To: Engineering and Operations Committee Members

Through: Mauricio E. Guardado, Jr., General Manager
Anthony A. Emmert, Assistant General Manager

cc: Dr. Maryam Bral, Chief Engineer

From: Marissa Caringella, Environmental Services Manager

Date: November 28, 2023 (December 7, 2023, meeting)

Agenda Item: 4.2 Monthly Environmental Services Department Report
Information Item

Staff Recommendation:

The Engineering and Operations Committee members will receive this summary report from the Environmental Services Department regarding its activities for the month of November 2023.

Discussion:

1. Santa Felicia Project Operations and Federal Energy Regulatory Commission (FERC) License Support

- Water Release Plan and Water Release and Ramping Rate Implementation Plan

Under the Water Release Plan and FERC license for the Santa Felicia Project, United Water Conservation District (United) is required to make certain water releases from the Santa Felicia Dam for steelhead habitat and migration, when specific triggers are met. Triggers for habitat water releases are based on cumulative rainfall within the water year. Beginning each October 1, at the start of the water year, United shall release a minimum flow of seven cubic feet per second (cfs) into Piru Creek below Santa Felicia Dam. The minimum required habitat water release starting October 1 through January 1 is seven cfs.

- Santa Felicia Fish Passage Pre-Implementation Studies

On November 7, 2023, Environmental Services staff (ES) hosted a meeting for a portion of the Santa Felicia Fish Passage Science and Technology Panel (FPSTP), as a follow-up to the October 4, 2023, FPSTP meeting. The meeting was attended by staff from U.S. Fish and Wildlife Service, National Marine Fisheries Service (NMFS), California Department of Fish and Wildlife (CDFW), and Cramer Fish Sciences (CFS). CFS and ES presented fish trapping protocols and field study plans for the 2023–24 trapping season.

4.2 Monthly Environmental Services Department Report

Information Item

The reinstallation of instream monitoring equipment (PIT antennas and fish traps) that was lost or damaged by the January 2023 storm flows is anticipated to begin on November 27, 2023, and be completed by December 4, 2023. With CFS support, United plans to maintain and operate two PIT antenna arrays and two fish traps (fyke trap and rotary screw trap, as conditions allow) from December through May 2024 to collect data for the middle Piru Creek pre-implementation study.

On November 21, 2023, ES filed a status update with FERC detailing the recent FPSTP meetings and field study activities.

- Santa Felicia Dam Safety Improvement Project (SFDSIP)

On October 31, 2023, United filed a response to comment letter with FERC regarding NMFS' September 14, 2023, comment letter. United's response letter disagreed with NMFS' representation of the SFDSIP, their conclusions regarding effects of the SFDSIP, and the need to reinitiate consultation on the underlying hydropower facility for the Santa Felicia Project (FERC No. 2153).

On November 16, 2023, United met with FERC to discuss submittal of the revised draft Biological Assessment required to initiate Endangered Species Act Section 7 consultation with NMFS for the SFDSIP.

- Habitat Improvement Plan (HIP)

On October 31, 2023, United met with NMFS and FERC to inform new NMFS staff about the lower Piru Creek HIP development history and to discuss the current HIP draft. At the meeting, FERC requested that NMFS file their comments on the draft.

On November 20, 2023, FERC issued a letter accepting United's October 6, 2023, extension of time request to file the HIP with FERC for approval due to not receiving comments or agreement from NMFS. The draft HIP was provided to NMFS for review on May 8, 2023. NMFS' agreement is required to file the final HIP with FERC for approval.

- Vegetation and Noxious Weed Management Plan

During the week of November 13, 2023, Channel Islands Restoration (CIR) conducted annual tamarisk surveys and treatment at the Santa Felicia Dam and the Lake Piru Recreation Area in accordance with the FERC Noxious Weed and Vegetation Management Plan. Results of CIR's survey and treatment will be reported to FERC and the U.S. Forest Service Los Padres on or before March 15, 2024.

- United Water Conservation District v. FERC, Court Case in Abeyance

On September 29, 2010, the U.S. Court of Appeals granted United a motion to hold the court case "United Water Conservation District v. FERC" in abeyance and directed United to file status reports every 60 days. United filed the case to challenge the biological opinion issued by NMFS

4.2 Monthly Environmental Services Department Report

Information Item

on FERC's issuance of a license for the Santa Felicia Project. On November 23, 2023, the seventy-ninth status update was filed with the U.S. Court of Appeals for District of Columbia Circuit.

- Santa Felicia Whitewater Boating Access Plan

On November 21, 2023, United informed the local whitewater boating community of whitewater recreational opportunities on lower Piru Creek per the Santa Felicia Whitewater Boating Access Plan. The water conservation release is anticipated to provide this opportunity until December 31, 2023, or until a significant rain event occurs (whichever comes first). To make a reservation, the public must call United's Lake Piru ranger office at least 24-hours prior to the requested launch date. United has advised that boaters exercise extreme caution as United has no control over conditions in lower Piru Creek downstream of the property line and conditions are likely poor due to overgrown vegetation.

2. Lake and Streambed Alteration (LSA) Agreement for Freeman Diversion Routine Maintenance

On November 27, 2023, United's LSA notification for Freeman Diversion Routine Maintenance was deemed complete by CDFW, following United's submittal of additional information on October 26, 2023. CDFW has 60 days from the complete date to issue a draft agreement.

3. Freeman Diversion Operations

During the month of November, ES supported Freeman Diversion operations and maintenance activities by conducting surveys of dewatered areas and providing on site biological monitoring.

On November 6, 2023, United temporarily ceased diversions and dewatered the Freeman Diversion facility to allow Operations and Maintenance staff to conduct end-of-season maintenance. On October 18, 2023, ES issued a notification to NMFS and CDFW and requested on-site assistance. A CDFW game warden was present on site for the November 6, 2023, operations. ES conducted surveys of all dewatered areas and rescued and relocated a total of 219 fish. No *Oncorhynchus mykiss* were observed.

4. Freeman Diversion Multiple Species Habitat Conservation Plan (MSHCP)

On November 9, 2023, United staff submitted a Gantt chart to NMFS and CDFW outlining the schedule for the completion of project plans and documents through the February 9, 2024, submittal deadline. On November 17, 2023, staff submitted the operations plan outline to NMFS and CDFW describing the proposed operations associated with diversions, bypass flows, flushing, and desanding, which is the foundation of the draft Environmental Impact Report, the MSHCP, and regulatory applications currently in development. Both the Gantt chart and operations plan outline submittals were in accordance with the November 3, 2023, Joint Stipulation in the *Wishtoyo et al. v. United* case.

4.2 Monthly Environmental Services Department Report Information Item

5. Quagga Mussel Management

Throughout the month of November, ES continued conducting all quagga mussel monitoring activities on Lake Piru, lower Piru Creek, and the spillway pool in accordance with the Quagga Mussel Monitoring and Control Plan.

Beginning November 13, 2023, ES returned to biweekly quagga mussel veliger (larva) sampling of United's lower system after four weeks of no detections. United staff continues to meet regularly with Pleasant Valley County Water District and coordinate internally to plan and prepare for future control actions if needed.

6. Capital Improvement Projects

ES supported the Engineering Department by completing two California Environmental Quality Act (CEQA) Notice of Exemptions (NOE) for the Inverted Siphon Replacement Project and the Three Barrel Culvert Replacement Project. The Projects are categorically exempt pursuant to State CEQA Guidelines Section 15301 (Existing Facilities) and Section 15302 (Replacement or Reconstruction). If approved by the Board, the NOEs will be filed with the Ventura County Clerk.

7. Miscellaneous

- On November 7, 2023, Scott Lewis and Mike Gibson of Casitas Municipal Water District provided a tour of the Robles Diversion Facility to ES.

Staff Report

To: **Engineering and Operations Committee Members**

Through: Mauricio E. Guardado, Jr., General Manager

From: Clayton Strahan, Chief Operations Officer
Randy Castañeda, Operations Supervisor — Water Treatment
J.D. Smallwood, Operations Supervisor — Water Distribution

Date: **November 28, 2023 (December 7, 2023, meeting)**

Agenda Item: **4.3 Monthly Operations and Maintenance Department Report**
Information Item

Staff Recommendation:

The Engineering and Operations Committee members will receive this summary report from the Operations and Maintenance department regarding its activities for the month of November 2023.

1. Water Releases, Diversions

- Lake Piru rose 6.71 feet in November because of the importation of the district's Table-A water and two water transfers from Palmdale Water and the Santa Clarita Valley Water Agency. Levels peaked at 43,712 acre-feet (AF) of storage but are currently decreasing as the district continues its water conservation releases from Santa Felicia Dam.
- 6,363 AF of water was diverted by the Freeman Diversion facility in November.
- 2,189 AF of water was delivered to the Saticoy recharge basins in November (metered plus unmetered, including Noble and Rose Basins).
- 3,188 AF of surface water was delivered to the El Rio recharge basins in November.
- 478 AF of surface water was delivered to the PTP system in November.
- 0 AF of surface water was delivered to C customers in November.
- 661 AF of surface water was delivered to Pleasant Valley County Water District in November.

2. Major Facilities Update

• **Santa Felicia Dam**

- On November 1, 2023, the lake level was 1010 and reached a peak of 1018 on November 23, 2023.
 - Conservation releases from the Santa Felicia Dam (SFD) varied due to Freeman maintenance during the month of November, at a release rate of 7-290 cubic feet per second (cfs).
 - Grading / road maintenance is ongoing and continuing.
-

Agenda Item: 4.3 Monthly Operations and Maintenance Department Report
Information Item

- Bathymetric survey being performed by Fugro starting on 11/27/23.
- **Freeman Diversion, Saticoy, and El Rio Recharge Facilities**
 - Diversion rate at the Freeman Diversion averaged 61 cfs for the month of November, with 217 cfs of surface water being diverted on November 1, 2023.
 - District staff operated the Freeman Diversion throughout the month of November, harvesting Santa Felicia Dam release flows, recharging basins, and delivering surface water to El Rio, PTP and PV pipelines.
 - Beginning November 6, 2023, staff performed a maintenance shutdown of the Freeman diversion. This project was initially slated to last 13 working days but was completed on November 15 and in just eight days due to the diligence of staff. Diversions resumed the evening of November 15, 2023.
 - Freeman Fish Ladder gates were repaired and re-installed by R&B Automation with assistance from T&T Crane and district staff.
 - The Saticoy Well Field ran from November 6, 2023, to November 16, 2023, with a total production of 224.4 AF. Individual well production ranged from 2.5 CFS to 4.5 CFS.
 - Staff performed various heavy equipment operations in preparation for storm season to include discing of ponds, sediment removal and grading of roadways.
 - Freeman roller-gate maintenance was performed by R&B Automation on Monday, November 27 and 28, 2023 as the final step in the Freeman maintenance shutdown.
 - R&B Automation performed preventative maintenance on various gates around the Freeman Diversion & Saticoy Spreading Grounds as part of the district's Freeman Shutdown Exercise. Staff dried, scraped, disced, and rotated low percolation rate recharge basins in Saticoy and El Rio. Ponds number 2 and number 3 in El Rio are now percolating at significantly faster rate than before and are currently percolating approximately 90 CFS without staging up.
 - Static water levels (distance of water from the well pad to the water table):

	2023	2022	2021
Saticoy	28'	143'	149'
El Rio	71'	145'	148'
PTP	80'-111'	145'-177'	130'-175'

- **Oxnard-Hueneme (OH) Delivery System**
 - Staff continued the testing of the backwash process for Iron/Manganese Plant filters.
 - Staff reconnected wiring at test stations for OH Pipeline cathodic protection system and identified sacrificial anodes that need to be replaced in the near future as a CIP project.
 - Staff obtained VOC, SOC water quality samples from OH Wells 12 and 13 to ready them for use as OH production supply wells after being processed through the new Iron/Manganese Plant.
-

Agenda Item: 4.3 Monthly Operations and Maintenance Department Report
Information Item

- Staff assisted a contractor prepare the EL Rio office parking lot for new a asphalt overlay, slurry coat and vehicle space striping.
Staff attended the OH Well 14 energy efficiency pre-proposal meeting, where details of replacing discharge piping from the well to the EL Rio plant were discussed.
- **Pleasant Valley County Water District (PVCWD)**
 - PVCWD received United's surface water supply, surface supply from Conejo Creek Project and received highly treated recycled water from the City of Oxnard's Advanced Water Purification Facility (AWPF).
 - 12% sodium hypochlorite injection continues at Saticoy's Moss Screen facilities for quagga mussel control.
 - EL Rio operators started Saticoy wells during Freeman Diversion shutdown to maintain UWCD supply to Pleasant Valley County Water District and balance pressure throughout PTP System.
 - EL Rio staff used heavy equipment to cut down dense brush that has grown outside the perimeter of PV Reservoirs.
- **Pumping Trough Pipeline (PTP)**
 - During the month of November, the PTP system demand was met primarily with surface water and supplemented with PTP wells.
 - Staff upgraded PTP Turnout meter #162 with Endress Hauser Electromagnetic meter.
 - "No Drinking Water" signs were installed at miscellaneous PTP turnout stations.
- **Control Systems**
 - Control Systems staff resolved issues with fuses, the trough pumps and the VFD drives for the traveling screens at Saticoy Moss Screen.
 - Staff worked on testing procedures for Piru emergency warning siren, which resulted in the replacement of the backup batteries. The obsolete batteries were causing incomplete siren activation.
 - Staff continued their support for Fe-Mn (Iron and Manganese) treatment project programming and start-up testing.
 - Staff programed and commissioned an Endress Hauser Electromagnetic flow meter at Turnout #162 off Laguna Road.
 - Staff worked on miscellaneous flow meter issues throughout the Freeman Diversion infrastructure.
- **Lake Piru Water System**
 - All chlorine residuals and turbidity readings for the drinking water system were within proper ranges for the month of November.
 - Monthly pH, turbidity and coliform samples were obtained for Lake Piru, as part of the Long Term 2 Enhanced Surface Water Treatment Rule compliance monitoring.

3. Operations and Maintenance Projects Update

Agenda Item: 4.3 Monthly Operations and Maintenance Department Report
Information Item

- Staff performed a change out of the EL Rio chlorine leak detection sensors to ensure monthly calibrations are within pre-determined manufacture and safety program specifications.
- Staff accepted the delivery of the new access vault for the EL Rio 42” UAS pipeline. This will complete the previously discussed ammonia ball repair at the facility.
- **Other Operations and Maintenance Activities**
 - The Santa Felicia Dam Emergency Action Plan sirens located in Piru were exercised on November 1st, 2023.
 - Staff facilitated tours at Freeman Diversion facilities.
 - Staff continued oversight of the chemical injection process at the Moss screen for quagga control.
 - Staff completed the monthly inspection of Santa Felicia Dam completed on November 15, 2023.
 - Monthly bacteria samples were obtained for the PTP system.
 - Monthly meter readings were obtained for OH, PTP and PV pipelines.
 - Staff completed and electronically transmitted the monthly OH Surface Water Treatment Rule report to the State Water Resources Control Board Division of Drinking Water.
 - Static water levels were obtained for all El Rio, Saticoy, and PTP wells.
 - Weed abatement continued throughout the District.

Safety and Training

- The online Target Safety assignment for November was “Water Industry Industrial Ergonomics.”
- Staff deployed new safety and security signs as part of the Santa Felicia Dam Public Safety Plan assessment.
- Tailgate safety meetings were conducted at all individual O&M field locations and the topic included refresher training on equipment used at the various O&M locations; specifically, tailgate safety meetings were conducted prior to every commencement of maintenance activities at the Freeman Diversion.

Attachment: Operations Log for November.