United Water CONSERVATION DISTRICT

Board of Directors
Catherine P. Keeling, Vice President
Gordon Kimball, Secretary/Treasurer
Luis Calderon
Keith Ford
Mohammed A. Hasan
Steve Huber
Rachel Jones

General Manager
Mauricio Guardado

Legal Counsel
David D. Boyer

AGENDA
ENGINEERING AND OPERATIONS COMMITTEE MEETING

Thursday, November 5, 2026, at 9:30 a.m.
UWCD Headquarters, First Floor, Board Room
1701 N. Lombard Street, Oxnard, CA 93030

OPEN SESSION - ROLL CALL

1. Public Comments
Information Item
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 October 1, 2026, Committee meeting minutes.

3. UWCD Board of Directors Meeting Agenda Items
Review, discuss, and make a recommendation on the following agenda items considered for approval on November 18, 2026, Board of Directors meeting:

3.1 Award of Agreement with HDR Engineering Inc., for Construction Management and Inspection Services for the Phase 1 Extraction Barrier and Brackish Water Treatment Project
(Engineering Manager Robert Richardson)
Motion
Recommend full Board approval to authorize the General Manager to sign a Professional Consulting Services Agreement with HDR Engineering, Inc. for construction management and inspection services in connection with Phase 1 of the Extraction Barrier and Brackish Water Treatment Project (CIP 8019).

4. Monthly Department Updates
Information Item
Receive and review the monthly reports from the Engineering and Operations and Maintenance Departments, as well as receive a verbal presentation of their highlights.

4.1 Engineering Department Update
(Engineering Manager Robert Richardson)

4.2 Operations and Maintenance Department Update
(Chief Operations Officer Craig Morgan)

5. Future Agenda Items

ADJOURNMENT

The Americans with Disabilities Act provides that no qualified individual with a disability shall be excluded from participation in, or denied the benefits of, the District's services, programs or activities because of any disability. If you need special assistance to participate in this meeting, or if you require agenda material in an alternative format, please contact the District's offices at (805) 525-4431. Notification of at least 48 hours prior to the meeting will enable the District to make appropriate arrangements.

Approved: _____
Mauricio Guardado, General Manager

_____
Dr. Maryam Bral, Assistant General Manager

This agenda was posted Friday, October 30, 2026, at 11:15 a.m. at United Water Conservation District Headquarters, Oxnard, CA and www.unitedwater.org.

_____
Jacquelyn Lozano, Clerk of the Committee

United Water
CONSERVATION DISTRICT

STAFF REPORT

To: **Engineering and Operations Committee Members**

Through: Mauricio Guardado, General Manager
Dr. Maryam Bral, Assistant General Manager

From: Jackie Lozano, Clerk of the Committee

Date: **October 30, 2026 (November 5, 2026, meeting)**

Agenda Item: **2. Approval of Minutes**
Motion

Staff Recommendation:
Approve the October 1, 2026, Committee meeting minutes that are attached.

ATTACHMENT

Board of Directors
Catherine P. Keeling, Vice President
Gordon Kimball, Secretary/Treasurer
Luis Calderon
Keith Ford
Mohammed A. Hasan
Steve Huber
Rachel Jones

General Manager
Mauricio Guardado

Legal Counsel
David D. Boyer

United Water CONSERVATION DISTRICT

MINUTES
ENGINEERING AND OPERATIONS COMMITTEE MEETING

Thursday, October 1, 2026, at 9:30 a.m.
UWCD Headquarters, First Floor, Board Room
1701 N. Lombard Street, Oxnard, CA 93030

OPEN SESSION

Chair Catherine Keeling called the meeting to order at 9:44 a.m.

Committee Members Roll Call

Present: Directors Ford, Kimball, and Keeling.

Absent: None.

1. Public Comments
Information Item
No public comments were received.

2. Approval of Minutes
Motion

Action: M/S/C (Kimball/Ford) approving September 3, 2026, amended Committee meeting minutes.

Vote: Ayes: Ford, Kimball, and Keeling; Noes: None; Absent: None.

3. UWCD Board of Directors Meeting Agenda Items

3.1 Improved Denil Professional Consulting Services Agreement for the 90% Design Milestone
Motion
Senior Engineer Nathan Summerville summarized and presented this motion to the Committee for their consideration to the full Board of Directors for approval, presentation attached.

With General Manager approval, a request from Directors Kimball and Keeling mentioned it would be helpful when submitting the discussion background on the staff report to include the regulatory history. Added, staff to remember when presenting, that this is not only for the people in the room but for the people who are digging into the work the District is doing so they understand the “why” and the regulatory pressures the District is under while working on these projects. They also

stated they would like to see this and the estimated cost savings for the District in all the reports.

Action: M/S/C (Ford/Kimball) recommended that the full Board of Directors authorize the General Manager to execute a Professional Consulting Services Agreement with GEI Consultants Inc. to complete the 90% design milestone for the Improvement Denil Project, which is part of CIP 8001 Freeman Diversion Improvement Project – Denil.

Vote: Ayes: Ford, Kimball, and Keeling; Noes: None; Absent: None.

3.2 Upon Receiving the Chief Dam Safety Engineer's Annual Dam Safety Program Report, Adopt a Resolution Approving the Revision of the Owner's Dam Safety Program and Overarching Dam Safety Program Policy

Assistant General Manager Dr. Maryam Bral presented the Annual Dam Safety Report and summarized the motion for the committee's recommendation to the full Board of Directors for approval, presentation attached.

In accordance with the Santa Felicia Dam Owner's Dam Safety Program, the Chief Dam Safety Engineer for UWCD shall prepare and deliver an Annual Comprehensive Dam Safety Program Report (Annual Report) and presentation to the UWCD Board of Directors. This Annual Report and presentation cover dam safety program activities from October 2025 through October 2026 (reporting period). *Per Government Code Title 18 § 388. 113 Critical Energy/Electric Infrastructure Information, the Annual Report is a critical/confidential document. Committee members only will be provided with hard copies.*

With General Manager approval, Directors Keeling and Kimball requested an email be sent to the Directors offering them the opportunity to review the confidential documents ahead of the Board of Directors meeting. Dr. Bral mentioned she would pass along a suggestion from Director Kimball to possibly add a ½ hour or a block of time to the Board's closed session because it is an extensive document and especially for the new directors allowing them the necessary time to familiarize themselves with it. Dr. Bral would coordinate with the District's Executive Assistant Tara Acosta on these requests.

Motion

Upon receiving such report, staff recommend adoption of a resolution approving the revised Santa Felicia Dam Owner's Dam Safety Program, revision 12.0 dated October 2026, and the Overarching Dam Safety Program Policy, to the full Board. *Per Government Code Title 18 § 388. 113 Critical Energy/Electric Infrastructure Information, the Owner's Dam Safety Program is a critical/confidential document. Committee members only will be provided with hard copies.*

Action: M/S/C (Kimball/Ford) recommended that the full Board of Directors adopt a resolution approving the revised Santa Felicia Dam Owner's Dam Safety Program, revision 12.0 dated October 2026, and the Overarching Dam Safety Program Policy.

Vote: Ayes: Ford, Kimball, and Keeling; Noes: None; Absent: None.

4. Monthly Department Updates
Information Item

4.1 Engineering Department Update
Engineering Manager Mr. Richardson presented department updates to the Committee, presentation attached.

4.2 Environmental Services Department Update
Environmental Services Manager Marissa Caringella presented department updates to the Committee, presentation attached.

4.3 Operations and Maintenance Department Update
Chief Operations Officer Craig Morgan presented department updates to the Committee, presentation attached.

5. Future Agenda Items
No future agenda items were offered by the Committee.

ADJOURNMENT

Director Keeling adjourned the meeting at 10:58 a.m.

I certify that the above is a true and correct copy of the minutes of the UWCD Engineering and Operations Committee Meeting of October 1, 2026.

ATTEST: _____
Chair Catherine Keeling

UWCD Engineering and Operations Committee Meeting

Thursday, October 1, 2026, at 9:30 a.m.

1

A. Water Supply

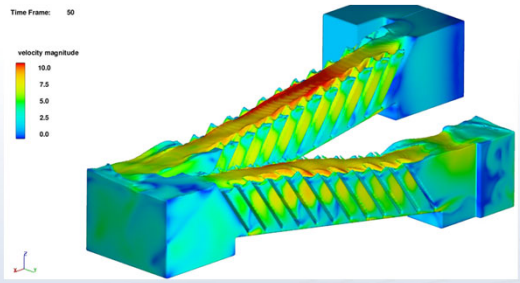
Motion Item 3.1

Recommend full Board approval to authorize the General Manager to execute a Professional Consulting Services Agreement with GEI Consultants, Inc. to complete the 90% design milestone for the Improved Denil Project, which is part of CIP 8001 Freeman Diversion Improvement Project – Denil

C. Regulatory + Environmental Compliance

Overview:

- ✓ 60% design received from GEI on August 31, 2026
- ✓ CFD modeling of Denil ladder completed by NHC
- ❑ Physical modeling of a representative Denil ladder section in progress (completion expected December 2026)
- ❑ 90% design submittal scheduled for March 2027



2

2

A. Water Supply

C. Regulatory + Environmental Compliance

Motion Item 3.1

Recommend full Board approval to authorize the General Manager to execute a Professional Consulting Services Agreement with GEI Consultants, Inc. to complete the 90% design milestone for the Improved Denil Project, which is part of CIP 8001 Freeman Diversion Improvement Project – Denil

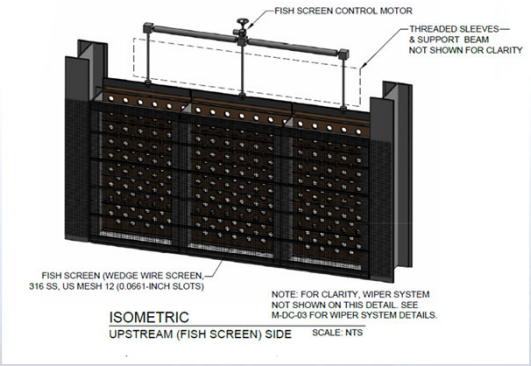
GEI's Scope:

- ❑ Analysis and design (90% milestone)
- ❑ Design criteria documentation
- ❑ Construction cost estimate
- ❑ Construction phasing and schedule
- ❑ 3D facility model
- ❑ Diversion structure refacing design

Subconsultants Scope:

- ❑ NHC – Hydraulic and fisheries
- ❑ Frisch Electrical – Electrical design
- ❑ IEC – Cost estimating and construction sequencing

Contract Cost: Not to Exceed $1,710,000
Included in approved FY26/27 Budget



3

3

C. Regulatory + Environmental Compliance

G. Organizational Effectiveness

3.2 Upon Receiving the CDSE's Annual Dam Safety Program Report, Adopt a Resolution Approving the Revision of the Owner's Dam Safety Program and Overarching Dam Safety Program Policy

United Water CONSERVATION DISTRICT

4

4

3.2 – CDSE's Annual Dam Safety Program Report

Reporting Period – October 1, 2025, through September 30, 2026

5

5

Dam Safety Incidents – Seismic Events

- ☑ None to Report - none with adverse impacts to SFD.
- ☑ Two post-earthquake inspections - no adverse impacts to SFD.
  - ➢ 4.18M on Jul 12, 2026
  - ➢ 3.45M on Sep 29, 2026



4.18 M Earthquake – 27 miles from SFD
July 12, 2026

6

6

Dam Safety Incidents – Spillway Flow Events



Spillway – March 9, 2026

- Two spill events (above El 1055):
  - Jan 15-25, 2026 (approx. 50 cfs)
  - Feb 25-Mar 7, 2026 (approx. 150 cfs)
- No adverse effects observed
- Woody debris removed from Spillway in June 2026

7

7

Critical Inspection Findings



DSOD Annual Inspection completed on May 28, 2026



Annual FERC Inspection completed on Aug 27, 2026



Woody Debris on Upstream Face of the Dam – Sep 2026

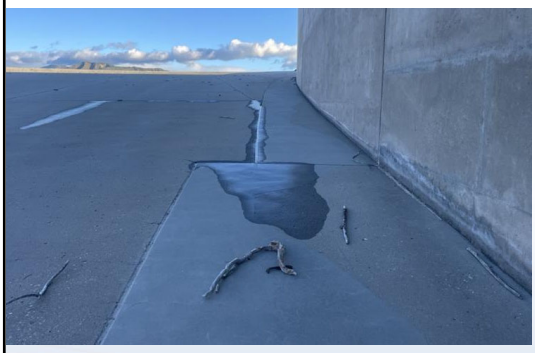
Minor maintenance items:

- Woody debris on the upstream slope
- East and west heel drains
- Drummy concrete patches

8

8

Surveillance and Monitoring



Slab Minor Seepage
Jan 2026



Under Slab Minor Seepage
Jun 2026

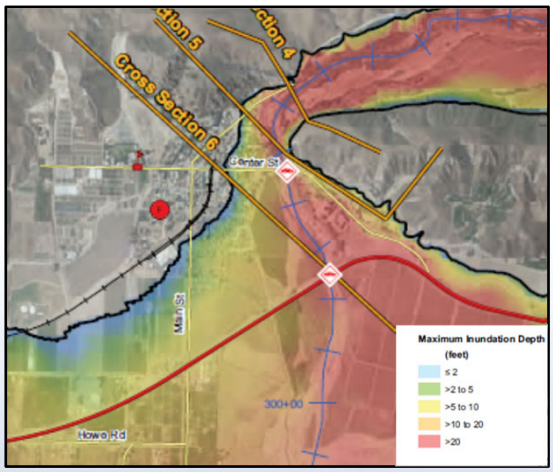


Valve Exercise
Aug 18, 2026

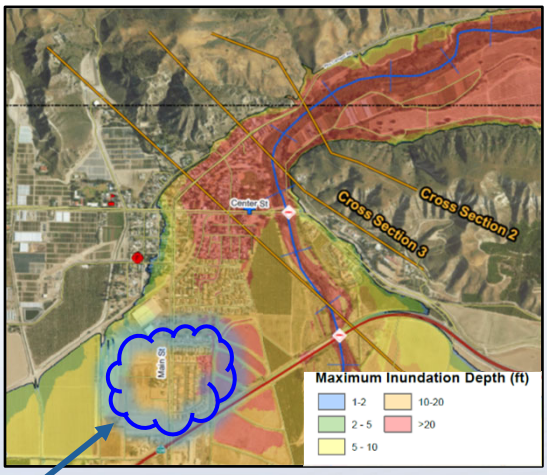
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EAP Updates – Inundation Maps



2013 Fair Weather Failure



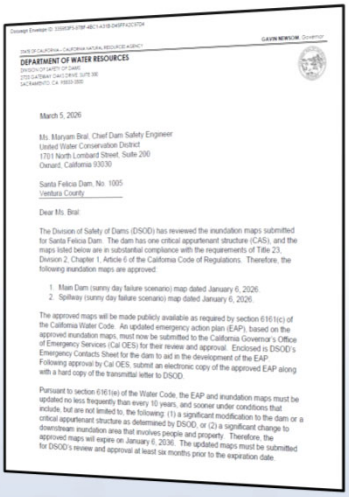
2026 Fair Weather Failure

Piru Gateway and Finch Ranch Developments

10

10

2026 EAP Updates – State Approvals



DEPARTMENT OF WATER RESOURCES

March 5, 2026

Ms. Maryam Bral, Chief Dam Safety Engineer
United Water Conservation District
1701 North Lombard Street, Suite 200
Oxnard, California 93030

Santa Felicia Dam, No. 1005
Ventura County

Dear Ms. Bral:

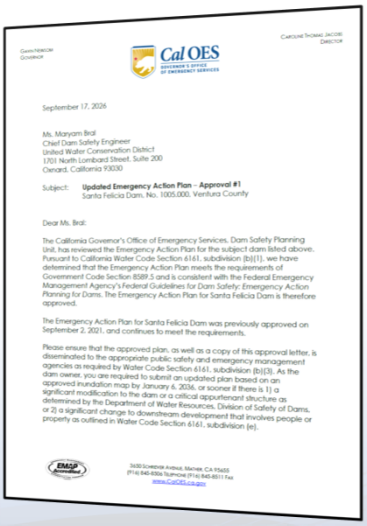
The Division of Safety of Dams (DSOD) has reviewed the inundation maps submitted for Santa Felicia Dam. The dam has one critical appurtenant structure (CAS), and the maps listed below are in substantial compliance with the requirements of Title 23, Division 2, Chapter 1, Article 6 of the California Code of Regulations. Therefore, the following inundation maps are approved:

1. Main Dam (sunny day failure scenario) map dated January 6, 2026.
2. Spillway (sunny day failure scenario) map dated January 6, 2026.

The approved maps will be made publicly available as required by section 6161(c) of the California Water Code. An updated emergency action plan (EAP), based on the approved inundation maps, must now be submitted to the California Governor's Office of Emergency Services (Cal OES) for their review and approval. Enclosed is DSOD's Emergency Contacts Sheet for the dam to aid in the development of the EAP. Following approval by Cal OES, submit an electronic copy of the approved EAP along with a hard copy of the transmittal letter to DSOD.

Pursuant to section 6161(e) of the Water Code, the EAP and inundation maps must be updated no less frequently than every 10 years, and sooner under conditions that include, but are not limited to, the following: (1) a significant modification to the dam or a critical appurtenant structure as determined by DSOD, or (2) a significant change to downstream inundation area that involves people and property. Therefore, the approved maps will expire on January 6, 2036. The updated maps must be submitted for DSOD's review and approval at least six months prior to the expiration date.

SFD Inundation Maps – Approved by DSOD on Mar 5, 2026



Cal OES
GOVERNOR'S OFFICE OF EMERGENCY SERVICES

September 17, 2026

Ms. Maryam Bral
Chief Dam Safety Engineer
United Water Conservation District
1701 North Lombard Street, Suite 200
Oxnard, California 93030

Subject: **Updated Emergency Action Plan – Approval #1**
Santa Felicia Dam, No. 1005.000, Ventura County

Dear Ms. Bral:

The California Governor's Office of Emergency Services, Dam Safety Planning Unit, has reviewed the Emergency Action Plan for the subject dam listed above. Pursuant to California Water Code Section 6161, subdivision (b)(1), we have determined that the Emergency Action Plan meets the requirements of Government Code Section 8589.5 and is consistent with the Federal Emergency Management Agency's Federal Guidelines for Dam Safety: Emergency Action Planning for Dams. The Emergency Action Plan for Santa Felicia Dam is therefore approved.

The Emergency Action Plan for Santa Felicia Dam was previously approved on September 2, 2021, and continues to meet the requirements.

Please ensure that the approved plan, as well as a copy of this approval letter, is disseminated to the appropriate public safety and emergency management agencies as required by Water Code Section 6161, subdivision (b)(3). As the dam owner, you are required to submit an updated plan based on an approved inundation map by January 6, 2036, or sooner if there is 1) a significant modification to the dam or a critical appurtenant structure as determined by the Department of Water Resources, Division of Safety of Dams, or 2) a significant change to downstream development that involves people or property as outlined in Water Code Section 6161, subdivision (e).

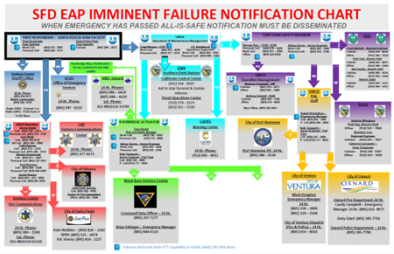
SFD EAP – Approved by CalOES on Sep 17, 2026

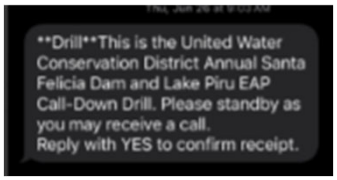
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11

EAP Exercises and Training







2025 SFD Dam Safety Cross-Training	2026 Call-Down Drill	Everbridge System
December 11, 2025 24 Staff Members Participated	**June 24, 2026** 15 Agencies Received Notifications over 12 Minutes	**June 24, 2026** Sent 155 notifications in 15 seconds

2026 SFD EAP Seminar	2026 SFD Dam Safety Cross-Training
October 22, 2026 In-Person Seminar	**TBD December 2026** O&M, Eng and Rec

12

12

Dam Safety Improvement Project

Preconstruction Activities – Outlet Works Improvement

Three Contractor Information Sharing Meetings



Jun 2026



Aug 2026



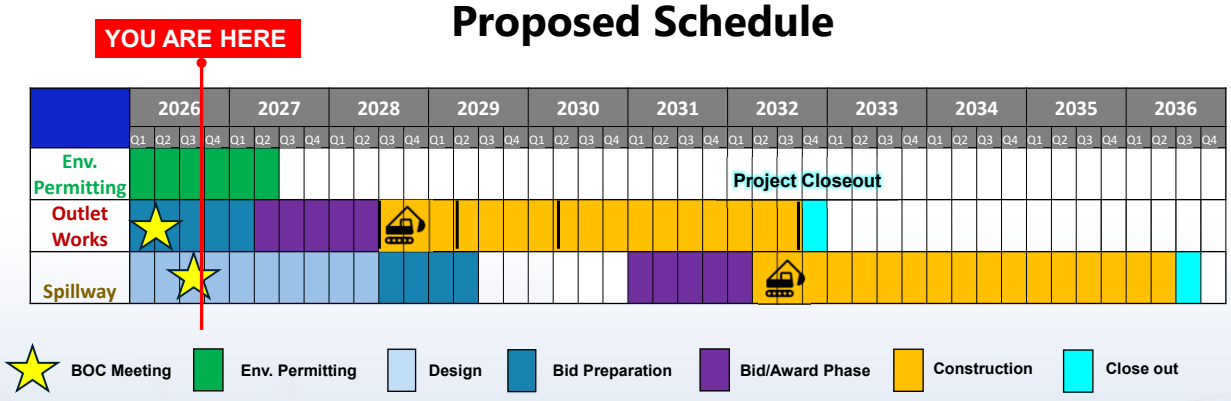
Sep 2026

13

13

Dam Safety Improvement Project

Proposed Schedule



Outlet Works Improvement Project



14

14

Public Outreach



Photos (Upper left - Clockwise)

- Ventura County Board of Supervisors – November 2025
- Santa Paula Basin Pumpers Association – May 2026
- City of Oxnard Council Meeting – March 2026
- Ventura County Grand Jury Tour - August 2026

15

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16

C. Regulatory + Environmental Compliance

G. Organizational Effectiveness

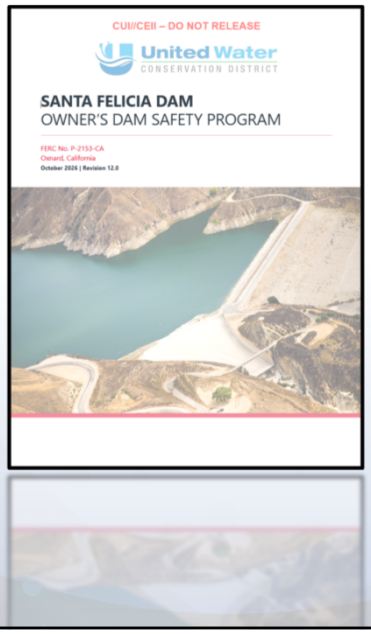
Resolution Approving the Revised Owners Dam Safety Program Document - October 2026

3.2 A Resolution of the United Water Conservation District Board of Directors Approving the Revised Owners Dam Safety Program and Overarching Dam Safety Program Policy, Dated October 2026

17

17

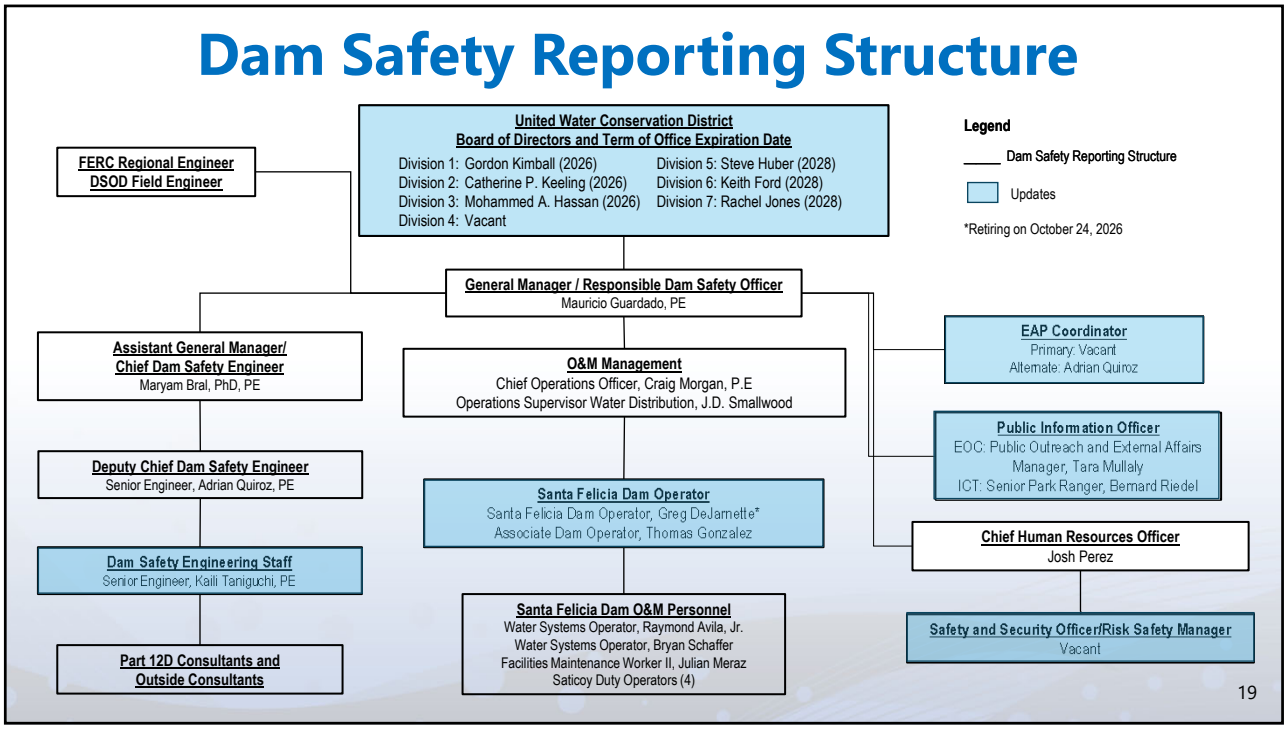
ODSP Overview



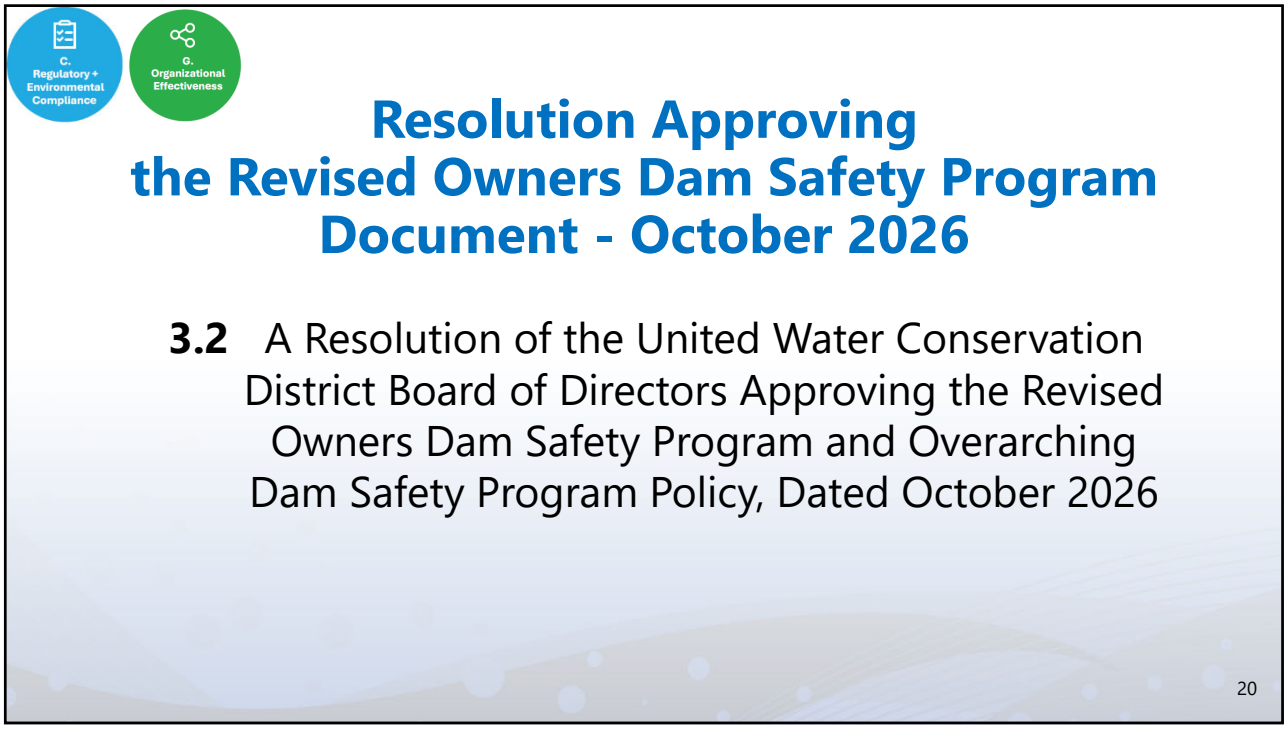
- **Purpose:** Promote dam safety accountability, prevent dam failure, and foster a strong dam safety culture within organization. The ODSP serves as policy for the District.
- **Applicability:** Required for dams with high or significant hazard classification.
- **Key Elements:**
  - Designate a Chief Dam Safety Engineer/Coordinator
  - Define policy, roles, responsibilities, training, and communication
  - Maintain records and continuous improvement
- **Oversight:**
  1. Annual review with executive management
  2. Self-Assessment every two-years
  3. Five-year external audit
- **Responsibility:** Ultimate dam safety responsibility remains with the owner/licensee

18

18


Dam Safety Reporting Structure
United Water Conservation District
Board of Directors and Term of Office Expiration Date
Division 1: Gordon Kimball (2026)
Division 2: Catherine P. Keeling (2026)
Division 3: Mohammed A. Hassan (2026)
Division 4: Vacant
Division 5: Steve Huber (2028)
Division 6: Keith Ford (2028)
Division 7: Rachel Jones (2028)
Legend
Dam Safety Reporting Structure
Updates
*Retiring on October 24, 2026
FERC Regional Engineer
DSOD Field Engineer
General Manager / Responsible Dam Safety Officer
Mauricio Guardado, PE
Assistant General Manager/
Chief Dam Safety Engineer
Maryam Bral, PhD, PE
O&M Management
Chief Operations Officer, Craig Morgan, P.E
Operations Supervisor Water Distribution, J.D. Smallwood
EAP Coordinator
Primary: Vacant
Alternate: Adrian Quiroz
Public Information Officer
EOC: Public Outreach and External Affairs Manager, Tara Mullaly
ICT: Senior Park Ranger, Bernard Riedel
Deputy Chief Dam Safety Engineer
Senior Engineer, Adrian Quiroz, PE
Santa Felicia Dam Operator
Santa Felicia Dam Operator, Greg DeJarnette*
Associate Dam Operator, Thomas Gonzalez
Chief Human Resources Officer
Josh Perez
Dam Safety Engineering Staff
Senior Engineer, Kaili Taniguchi, PE
Santa Felicia Dam O&M Personnel
Water Systems Operator, Raymond Avila, Jr.
Water Systems Operator, Bryan Schaffer
Facilities Maintenance Worker II, Julian Meraz
Saticoy Duty Operators (4)
Safety and Security Officer/Risk Safety Manager
Vacant
Part 12D Consultants and
Outside Consultants
19

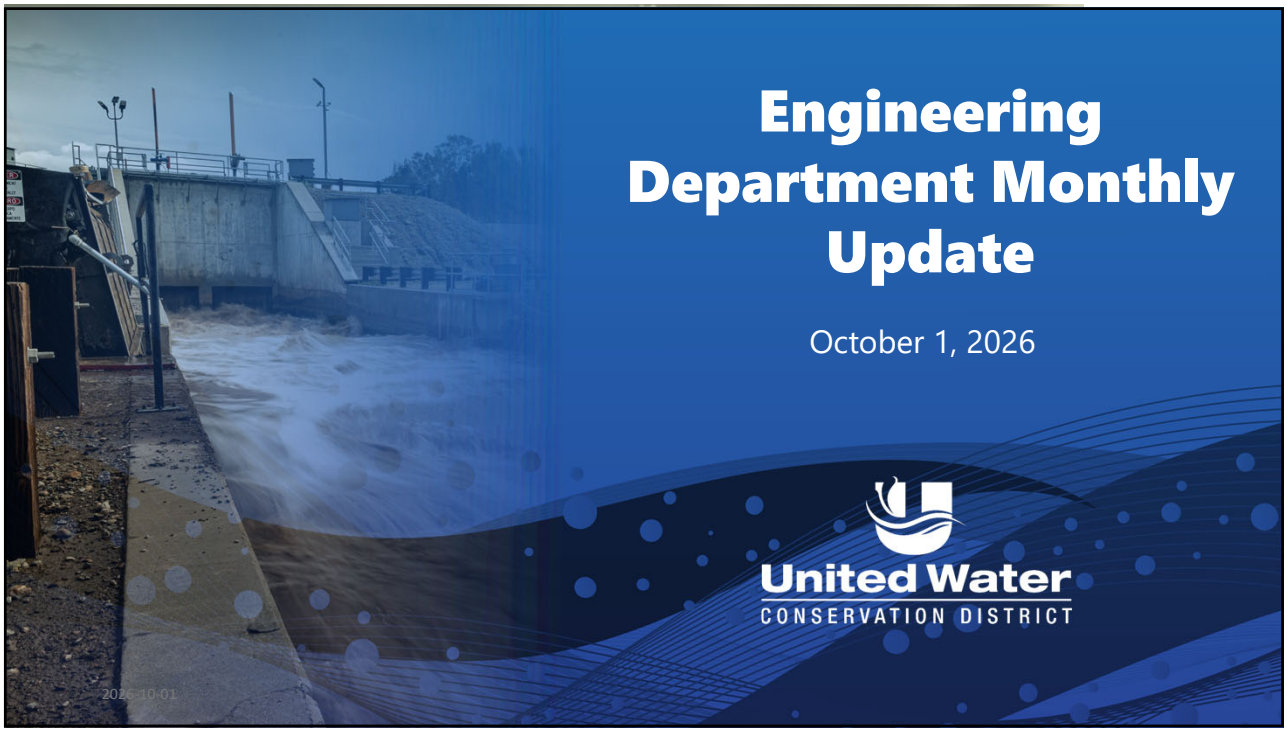
19


C.
Regulatory + Environmental Compliance
G.
Organizational Effectiveness
Resolution Approving
the Revised Owners Dam Safety Program
Document - October 2026
3.2 A Resolution of the United Water Conservation District Board of Directors Approving the Revised Owners Dam Safety Program and Overarching Dam Safety Program Policy, Dated October 2026
20

20


Thank you!
United Water
CONSERVATION DISTRICT

21


Engineering Department Monthly Update
October 1, 2026
United Water
CONSERVATION DISTRICT
2026-10-01

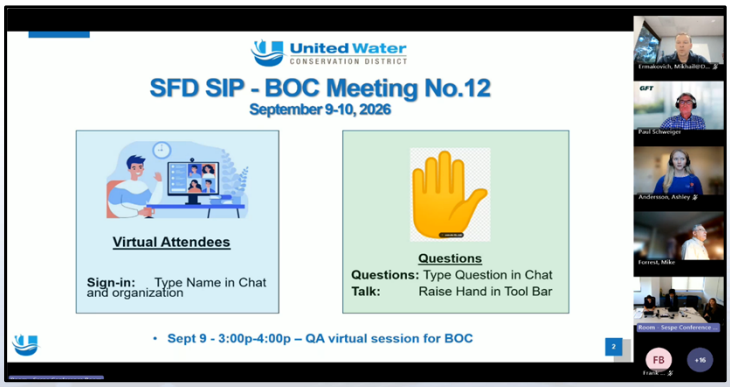
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Santa Felicia Dam
Safety Improvement Project

B. System Reliability

- Sep 9 to 10 - BOC Meeting No. 12 *(virtual)*





2026-10-01 23

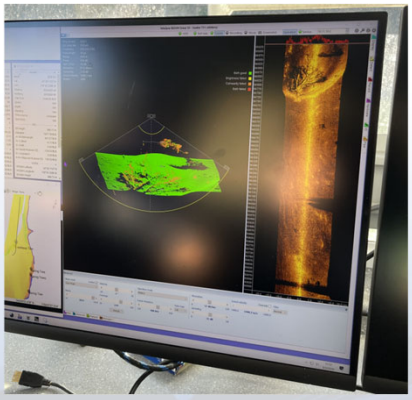
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Santa Felicia Dam
Regulatory Compliance

B. System Reliability

- Aug 31 to Sep 6 – Lake Piru bathymetric survey conducted by David Evans & Associates







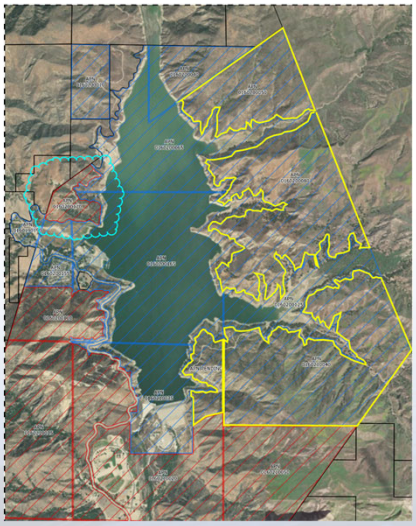
2026-10-01 24

24

Santa Felicia Dam/Lake Piru Property Acquisition

- Seller fully executed Vacant Land Purchase Agreement
- Phase 1 ESA underway





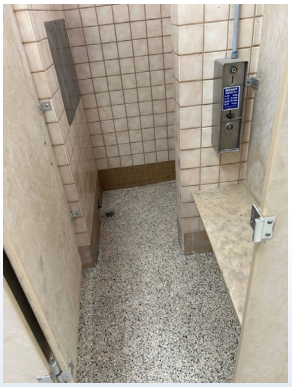
2026-10-01 25

25

Lake Piru Recreation Area

B. System Reliability

- **LOG Restroom**
  - Flooring system replacement
- **WTP**
  - Sep 14 - Electrical site visit with Stantec
  - BODR complete





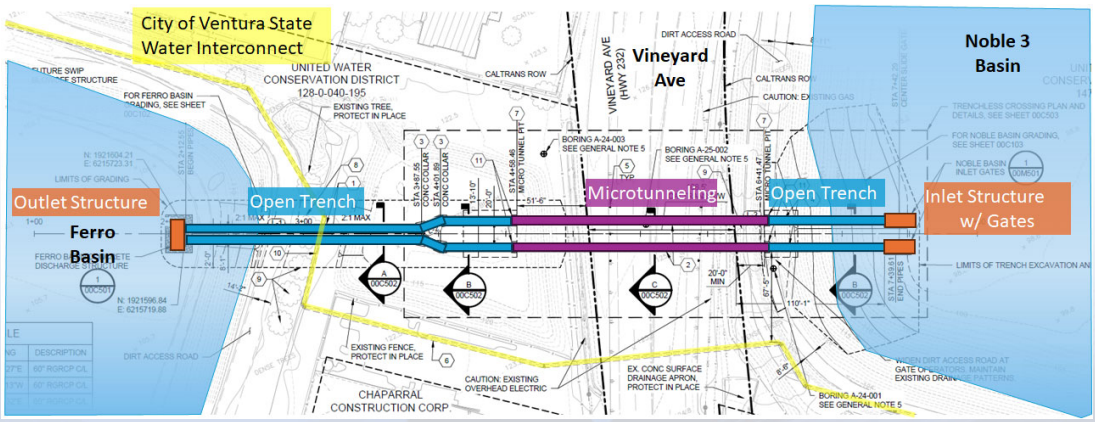
2026-10-01 26

26

Freeman Conveyance Vineyard Avenue Crossing

A. Water Supply

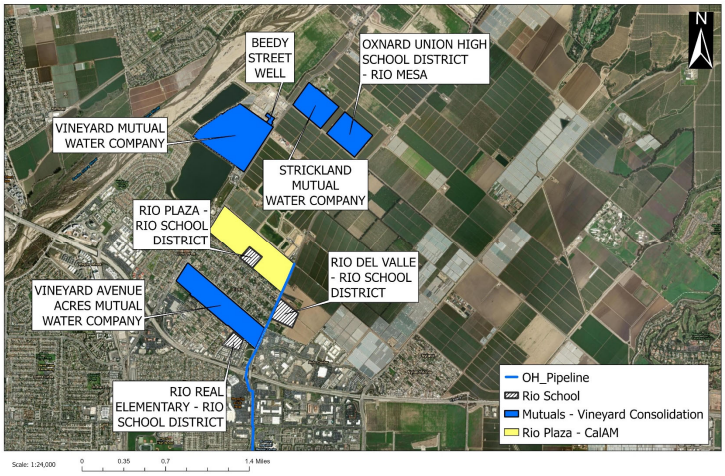
- Sep 10 – Notice of Award issued to Sam Hill & Sons



27

OH Pipeline

- VAAMWC Consolidation Project
  - CSA 34 – County engagement with LAFCO
  - RCAC – notices to nearby public water agencies
- Rio Real Elementary School

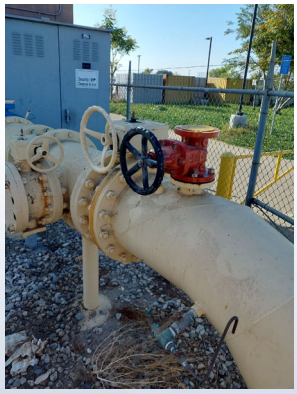


28

Well No. 14 Energy Efficiency

B. System Reliability

- Sep 3 - Inspection of discharge head and three (3) sections of discharge line within El Rio with GPRS



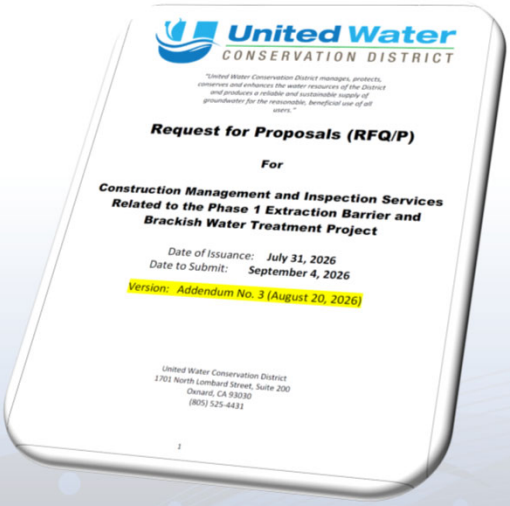



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EBB Water Project Phase 1

A. Water Supply

- Jul 31 - RFQ/P for Construction Management and Inspection Services issued
- Sep 4 – Four (4) proposals received
- Nov 18 – Proposed award of PCSA


United Water CONSERVATION DISTRICT

"United Water Conservation District manages, protects, conserves and enhances the water resources of the District and produces a reliable and sustainable supply of groundwater for the reasonable, beneficial use of all users."

Request for Proposals (RFQ/P)

For

Construction Management and Inspection Services Related to the Phase 1 Extraction Barrier and Brackish Water Treatment Project

Date of Issuance: July 31, 2026
Date to Submit: September 4, 2026
Version: Addendum No. 3 (August 20, 2026)

United Water Conservation District
1701 North Lombard Street, Suite 200
Oxnard, CA 93030
(805) 525-4431

1

30

Headquarters Roof Replacement

- Sep 10 – Notice of Award issued to Rite-Way Roof





2026-10-01 31

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Updates

- SFDSIP 404 application submitted to USACE
- CDFW updated invasive mussel plans required by Sept 30, 2027
- FPBGSA FY 26-27 data collection to inform GSP data gaps
- Public comment closed for the rule to revise NMFS critical habitat designation
- Final rule rescinding regulatory definition of harm effective Sept 14, 2026





34

34

Grant Progress

- Grant application submitted on September 9, 2026

Program	**USBR WaterSMART Enhancing Water Resources Grant**
Project	**Watershed Health – Removal of Invasive Species and Fire Fuels Above Lake Piru**
Funding ask	**$310,500**

- Letters of support from:
  Supervisor Kelly Long
  VC Resource Conservation District
  Santa Clara River Watershed Committee
  Piru Neighborhood Council

BUREAU OF RECLAMATION

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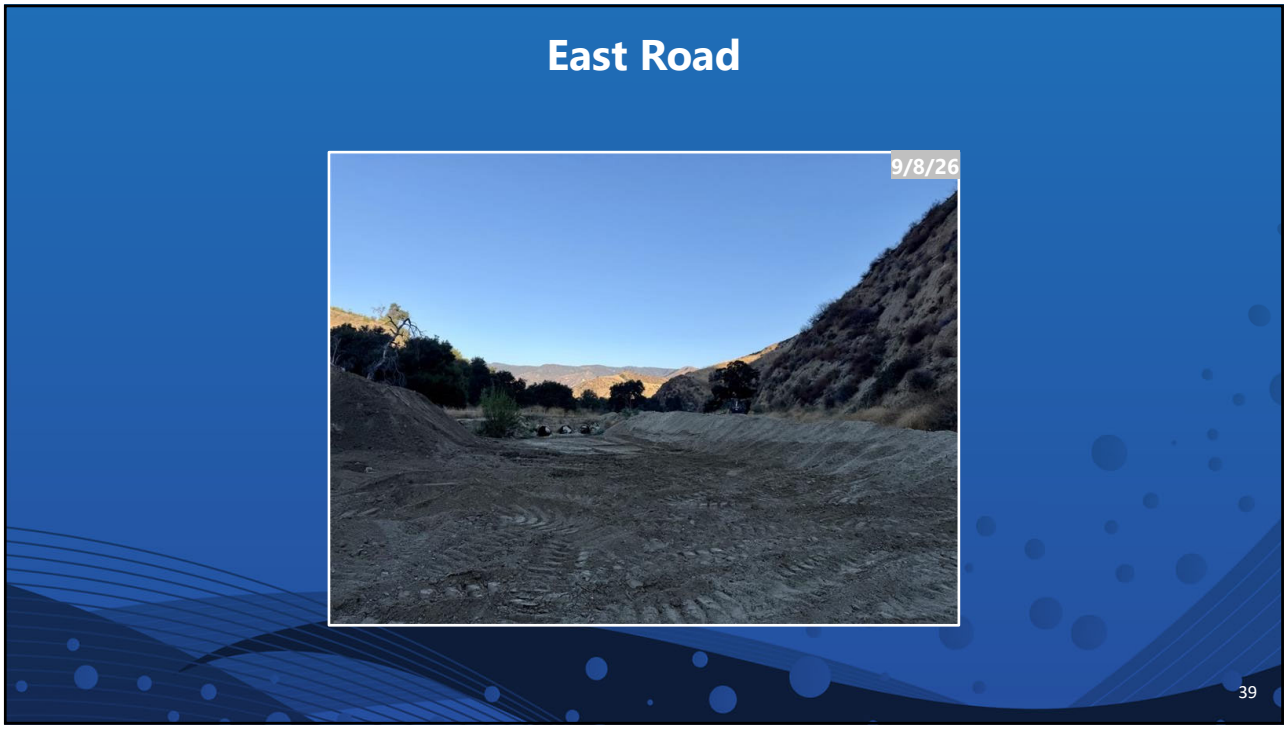
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Operations and Maintenance Department Update
October 1, 2026
United Water
CONSERVATION DISTRICT

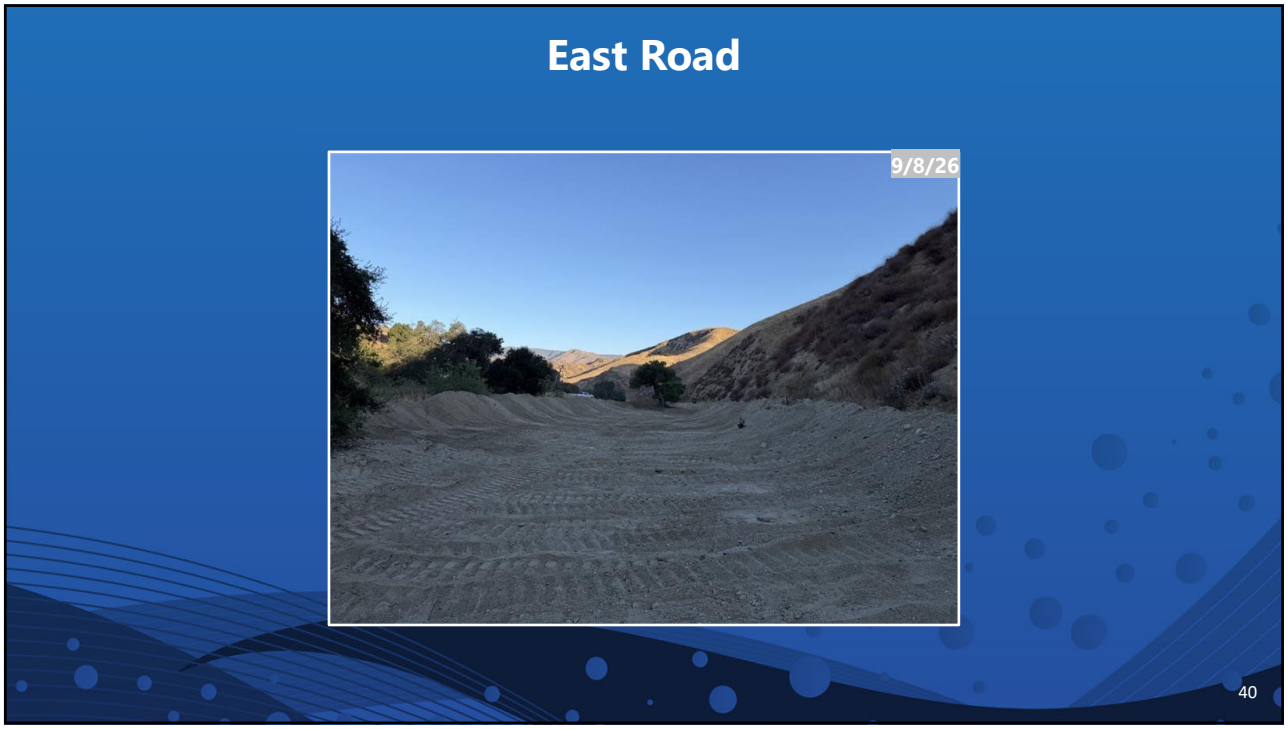
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Santa Felicia Dam and Lake Piru
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East Road



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Spillway Security Camera Pole Installation



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Spillway Security Camera Pole Installation



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43

Freeman Diversion and Saticoy

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44

Freeman Diversion – Gate Maintenance



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45

Desilting Basin



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Desilting Basin



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Desilting Basin



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Desilting Basin



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Saticoy Recharge Basins



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Discing of Saticoy Recharge Basins



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El Rio



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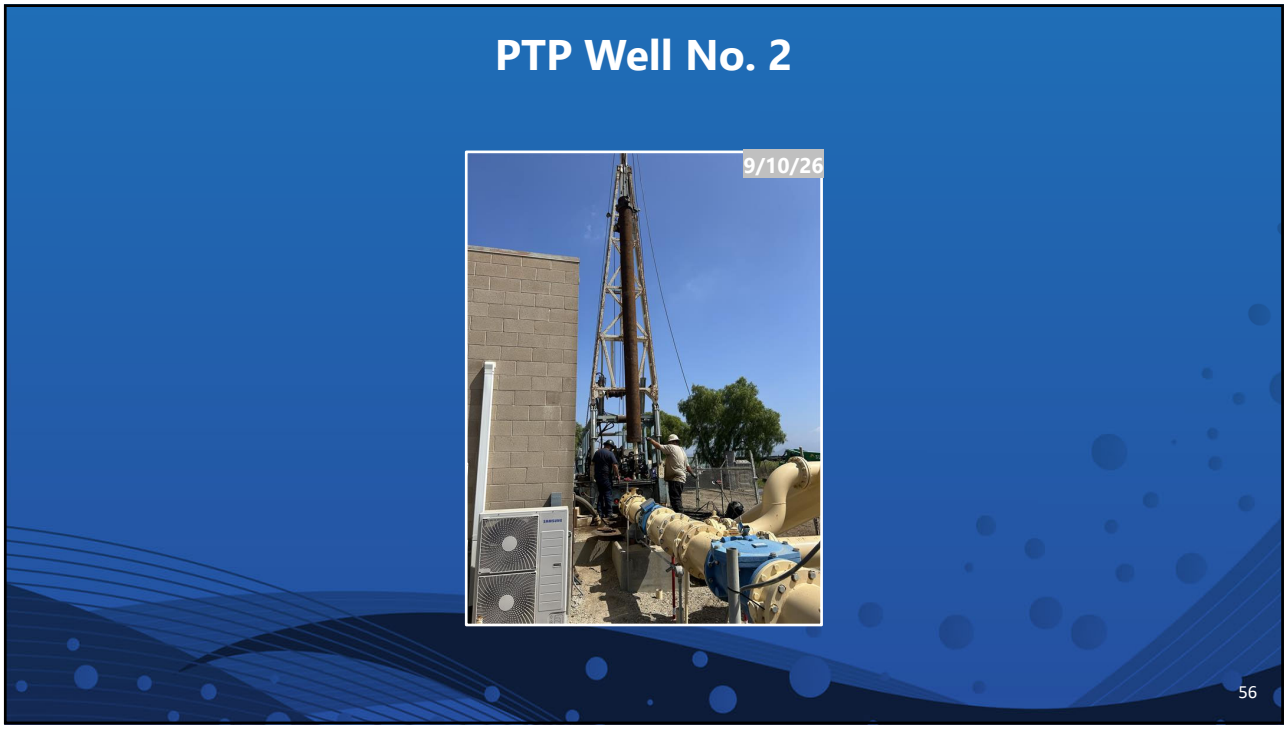
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United Water
CONSERVATION DISTRICT

STAFF REPORT

To: **Engineering and Operations Committee Members**

Through: Mauricio Guardado, General Manager
Dr. Maryam Bral, Assistant General Manager

From: Robert Richardson, Engineering Manager

Date: **October 29, 2026 (November 5, 2026, meeting)**

Agenda Item: **3.1 Professional Consulting Services Agreement with HDR Engineering, Inc. for Construction Management and Inspection Services Related to Phase 1 of the Extraction Barrier and Brackish Water Treatment Project (8019)**
Motion

Staff Recommendation:
Consider recommending that the full Board of Directors authorize the General Manager to sign a Professional Consulting Services Agreement (PCSA) with HDR Engineering, Inc. (HDR) for construction management and inspection services in connection with Phase 1 of the Extraction Barrier and Brackish (EBB) Water Treatment Project (WTP) (8019).

Background:
The Oxnard Subbasin (Basin) is designated by the California Department of Water Resources (DWR) as a critically overdrafted groundwater basin under the 2014 Sustainable Groundwater Management Act (SGMA) which requires all critically overdrafted basins to reach groundwater sustainability by 2040. Evidence of overdraft was first recognized in the 1930s, when groundwater levels were measured below sea level and elevated chloride concentrations appeared in coastal wells. Seawater intrusion continues to be the greatest threat to groundwater sustainability in the Oxnard Basin. The Phase 1 EBB WTP proposes to create an extraction barrier in an area where seawater intrusion has degraded the local groundwater resource. The Phase 1 EBB WTP will construct an extraction wellfield capable of extracting 3,500 acre-feet per year (AFY) of brackish groundwater and will include interconnecting pipelines and a discharge facility. This project is identified in the Groundwater Sustainability Plan (GSP) prepared by the Fox Canyon Groundwater Management Agency (FCGMA) as a key groundwater sustainability project that will increase the sustainable yield of the Oxnard Subbasin and Pleasant Valley Basin.

In December 2022, the District hired two consultants for the Phase 1 EBB WTP (design and environmental services). In November 2023, a Memorandum of Agreement was executed between Commander, Navy Region Southwest (CNRSW) and the District for the development of the Phase 1 EBB WTP at Naval Base Ventura County (NBVC) Point Mugu. On June 17, 2024, the District and State Water Resources Control Board

(SWRCB) executed a grant agreement in the amount of $8.45 million under the Proposition 1 Groundwater Grant Program (GWGP) for the Phase 1 EBB WTP. The grant agreement requires that the Phase 1 Project be constructed and operational by February 2029. Field investigations supporting the design were conducted in 2024, including geotechnical exploration, topographic and bathymetric surveys, power supply study, and environmental surveys. The 30% design documents were completed in March 2025. In December 2025, the District received site approval from NBVC to conduct additional field investigations to complete the design including utility locating and installation of temporary piezometer wells. In May 2026, the District received site approval from NBVC for the 30% design. UWCD has retained Kennedy/Jenks Consultants, Inc. (K/J) to provide design services. The development of the 60% design documents is underway which is anticipated to be complete by December 2026.

Construction of the Phase 1 EBB WTP is anticipated to start in late 2027 which is subject to completing all environmental documentation, permitting, and right-of-way acquisition requirements that are currently underway. The District's intent is to complete construction and begin operations of the Phase 1 EBB WTP by February 1, 2029, to meet the requirements of the SWRCB Proposition 1 GWGP grant.

Discussion:
UWCD released a Request for Qualifications/Proposals (RFQ/P) for construction management and inspection services to prospective consulting firms on July 31, 2026, and received four (4) proposals on September 4, 2026. The Scope of Work was organized into three (3) sequential parts:

- Part 1 – Constructability Review Services
- Part 2 – Bid Phase Services
- Part 3 – Construction Management and Inspection Services

Staff intend to award a PCSA including all parts (1 through 3) in its entirety. Staff will issue individual Notice to Proceed (NTP) authorizations to the Consultant to initiate each part. The initial NTP authorization will focus on Part 1 (constructability review services).

A proposal evaluation review panel (review panel) was formed consisting of the District's Administration, Engineering, Environmental Services, Water Resources, and Operations & Maintenance staff. All four (4) prospective consulting firms that submitted proposals were interviewed by the review panel between October 6 and 8, 2026. Proposals and interviews were evaluated by the review panel based on project understanding and approach; project team and key personnel; relevant experience, references, and past performance; technical expertise; project management and schedule; creativity, innovation, and added value; cost and fee proposal; and risk mitigation and management. Additionally, the review panel considered key focus areas such as waste management;

work on military installations; pipeline construction and dewatering; well construction; marine construction; site security and safety; environmental compliance; and grant compliance. The review panel utilized a pairwise ranking process and the review panel unanimously selected HDR as the most qualified firm with a responsive and responsible proposal. Upon selection, staff initiated the negotiation process with HDR on the final scope of work and fee.

Staff recommends award of a PCSA to HDR in the amount of $2,868,400 for construction management and inspection services in connection with the Phase 1 EBB WTP. Upon award, Staff will provide NTP authorization to HDR to initiate Part 1 of the PCSA.

Mission-Related Goal:
The Phase 1 EBB WTP aligns with Goal A – Water Supply and Goal B – System Reliability.

Fiscal Impact:
The total not-to-exceed amount for this contract is $2,868,400. The total estimated expenditure for Fiscal Year (FY) 2026-27 is $378,100 (Part 1 and 2).

Project Part	Fee	Anticipated FY of Expenditure
Part 1 Constructability Review	$309,500	2026-27
Part 2 Bid Phase Services	$68,600	2026-27 to 2027-28
Part 3 CM & Inspection Services	$2,490,300	2027-28 to 2028-29
Total Not-to-Exceed	**$2,868,400**	**2026-27 to 2028-29**

This expenditure was included in the adopted FY 2026-27 Capital Improvement Project (CIP) budget. As of October 2026, there is approximately $5,460,400 remaining under construction (Account No: 051-400-81060-8019-835) in the FY 2026-27 budget for CIP No. 8019.

Attachment:
Attachment A – Professional Consulting Services Agreement

AGREEMENT FOR
PROFESSIONAL CONSULTING SERVICES

THIS AGREEMENT ("Agreement") is made and entered into on _____, 2026, by and between the **United Water Conservation District**, Ventura County, California, (hereinafter "**UNITED**"), and **HDR Engineering, Inc.** (hereinafter "**CONSULTANT**").

RECITALS:

WHEREAS, UNITED desires to obtain constructability review services, bid phase services, and construction management and inspection services in connection with the **Phase 1 Extraction Barrier and Brackish Water Treatment Project** ("Project"); and

WHEREAS, UNITED has selected CONSULTANT to provide such services; and

WHEREAS, CONSULTANT represents that it has the skills, experience, license, and expertise to perform these professional services for UNITED; and

WHEREAS, UNITED is desirous of engaging the services of CONSULTANT to perform these services;

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

1. EMPLOYMENT

A. UNITED hereby employs CONSULTANT to perform and complete the professional engineering services as set forth in Exhibit "A" ("Scope of Work/Schedule of Charges"). CONSULTANT shall perform such professional services as set forth in Exhibit "A" and shall furnish or procure the use of incidental services, equipment, and facilities reasonably necessary for the completion of services.

B. Any extra work over and above that included in the Scope of Work included in Exhibit "A" shall be in compliance with Section 3D.

C. CONSULTANT represents that its services shall be performed, within the limits prescribed by UNITED, in a manner consistent with the level of care and skill ordinarily exercised by other engineering professionals under similar circumstances at the time and in the vicinity its services are performed.

D. **John Coffman** shall: (a) personally perform or supervise the performance of services on a day-to-day basis on behalf of CONSULTANT; and (b)

maintain direct communication with UNITED's **Engineering Manager** or designee in the performance of CONSULTANT's services.

E. CONSULTANT in the performance of services hereunder shall fully comply with any and all local, state and federal laws, regulations, ordinances, and policies applicable to its work, including any licensing laws applicable to CONSULTANT's profession and anti-discrimination laws pertaining to employment practices.

F. In the event of any conflict between the terms and conditions set forth in Exhibit A (Scope of Work/Schedule of Charges) versus those terms and conditions set forth in this Agreement, the terms and conditions set forth in this Agreement shall govern and the conflicting terms and conditions in Exhibit A shall not apply.

2. TERM OF AGREEMENT

Unless otherwise earlier terminated as specified in Section 8, this Agreement shall commence on the date set forth above and shall expire on **June 30, 2029.**

3. COMPENSATION

Payment by UNITED for the consulting services shall be considered as full compensation for all personnel, materials, supplies, and equipment used in carrying out the work.

A. Compensation and payments to the CONSULTANT shall be as described below:

1. UNITED shall compensate CONSULTANT on a time and expenses basis not to exceed **two million, eight hundred sixty-eight thousand, four hundred dollars ($2,868,400)** for performing all services authorized and required by this Agreement and specified in Exhibit "A." UNITED shall compensate CONSULTANT only for actual costs incurred on a time and expenses basis, but in no event shall the total compensation be greater than the not to exceed amount above. However, the total amount paid on a time and expenses basis may be lower than the not to exceed amount above based on actual costs incurred. Payment shall be made in accordance with CONSULTANT's Schedule of Charges submitted to UNITED, included in Exhibit "A" attached and incorporated by reference herein.

Notwithstanding any other provision of this Agreement, Consultant is initially authorized to perform only Part 1 Constructability Review Services as described in Exhibit A. Parts 2 (Bid Phase Services) and 3 (Construction Management and Inspection Services) are included within the total not-to-exceed compensation established by this Agreement but shall not commence until authorized by the District through written Notice to Proceed or other written authorization.

2. CONSULTANT shall provide UNITED with monthly itemized invoices. Invoices shall include the categories and identities of CONSULTANT's employees performing services, a description of the services, the number of hours spent performing services, the hourly rate for each employee, CONSULTANT's actual costs and expenses, and the total amount of compensation requested by CONSULTANT for that month. Upon UNITED's request, CONSULTANT shall include with its monthly invoices a detailed verification, including accounting records, of the work actually performed and costs and expenses incurred, along with any other documents or information reasonably requested by UNITED.

B. UNITED shall pay CONSULTANT within thirty (30) days after receipt of CONSULTANT's invoices, with the exception of any disputed amounts which shall be withheld until resolution of the dispute. If UNITED has reasonable grounds to believe that CONSULTANT will be unable to materially perform the services under this Agreement, or there exists or may exist a claim against CONSULTANT arising out of CONSULTANT's negligence or intentional acts , errors, omissions, or material breach of any provision of this Agreement, then UNITED may withhold payment of any reasonable amount due to CONSULTANT which is directly related to such negligence, intentional act, error, omission or material breach. No payment made under this Agreement shall be conclusive evidence of CONSULTANT's performance of the Agreement, either wholly or in part, and no payment shall be construed to be an acceptance by UNITED of CONSULTANT's work.

C. CONSULTANT shall notify UNITED in writing of the need for additional services required due to the circumstances beyond the CONSULTANT's control ("Additional Services"). The CONSULTANT shall obtain written authorization from UNITED before rendering any Additional Services. Compensation for all approved Additional Services shall be negotiated and approved in writing by UNITED before such Additional Services are performed by CONSULTANT. No compensation shall be paid to the CONSULTANT for any Additional Services that are not previously approved by UNITED in writing.

D. Reimbursable expenses, if applicable, are in addition to compensation for services outlined in the Scope of Work and Additional Services, and shall be paid to the CONSULTANT in accordance with the guidelines specified on Exhibit "B". Reimbursable expenses are paid at the actual costs, without mark-ups, incurred by the CONSULTANT and the CONSULTANT's employees in conduct of Agreement activities.

4. SCHEDULE OF WORK

CONSULTANT shall complete and deliver services and deliverables to UNITED in a diligent and professional manner, in accordance with the Project schedule set forth in Exhibit "A" attached and incorporated by reference herein. Time is of the essence in CONSULTANT's performance of services hereunder.

CONSULTANT's Project Manager shall keep UNITED's **Engineering Manager,** or designee informed as to the progress of work by informal reports. Neither party shall hold the other responsible for damages or delay in performance caused by acts of God, strikes, lockouts, accidents, or other events beyond the reasonable control of the other or the other's employees and agents.

5. ASSIGNMENT OF CONTRACT

This Agreement is a professional services contract. CONSULTANT shall not assign this Agreement or any portion of the work without the prior written approval of UNITED. Any such assignment without UNITED's prior written approval shall be void. UNITED may withhold such approval for any reason in its sole discretion.

6. INDEMNIFICATION

To the fullest extent permitted by law, CONSULTANT agrees to indemnify and hold UNITED entirely harmless from all liability arising out of:

1. Workers' Compensation and Employer's Liability. Any and all claims under Workers' Compensation acts and other employee benefit acts with respect to CONSULTANT's employees or CONSULTANT's subconsultant's employees arising out of CONSULTANT's work under this Agreement; and

2. General Liability. To the extent arising out of, pertaining to, or relating to the negligence, recklessness, or willful misconduct of the CONSULTANT, the CONSULTANT shall indemnify, defend and hold UNITED harmless from any liability for damages for (1) death or bodily injury to person; (2) injury to, loss or theft of property; (3) any failure or alleged failure to comply with any provision of law; or (4) any other loss, damage or expense arising under either (1), (2), or (3) above, sustained by the CONSULTANT or UNITED, or any person, firm or corporation employed by the CONSULTANT or UNITED upon or in connection with the Project, except for liability resulting from the sole or active negligence, or willful misconduct of UNITED, its officers, employees, agents, or independent consultants who are directly employed by UNITED. The CONSULTANT, at its own expense, cost, and risk, shall defend any and all claims, actions, suits, or other proceedings (other than professional negligence covered by Section A3 below) that may be brought or instituted against UNITED, its officers, agents, or employees, to the extent such claims, actions, suits, or other proceedings arise out of, pertain to, or relate to the negligence, recklessness, or willful misconduct of the CONSULTANT, and shall pay or satisfy any judgment that may be rendered against UNITED, its officers, agents, or employees, in any action, suit or other proceedings as a result thereof. Any costs to defend under this Section A2 shall not exceed the CONSULTANT's proportionate percentage of fault; and

3. Professional Liability. To the extent arising out of, pertaining to, or relating to the negligence, recklessness, or willful misconduct of the

CONSULTANT, the CONSULTANT shall indemnify and hold UNITED harmless from any loss, injury to, death of persons, or damage to property caused by any act, neglect, default, or omission of the CONSULTANT, or any person, firm, or corporation employed by the CONSULTANT, either directly or by independent contract, including all damages due to loss or theft, sustained by any person, firm, or corporation, including UNITED, arising out of, or in any way connected with, the Project, including injury or damage either on or off UNITED property; but not for any loss, injury, death, or damages caused by sole or active negligence, or willful misconduct of UNITED. With regard to the CONSULTANT's obligation to indemnify for acts of professional negligence, such obligation does not include the obligation to provide defense counsel or to pay for the defense of actions or proceedings brought against UNITED, but rather to reimburse UNITED for attorneys' fees and costs incurred by UNITED in defending such actions or proceedings brought against UNITED, and such fees and costs shall not exceed the CONSULTANT's proportionate percentage of fault.

7. INSURANCE

A. CONSULTANT shall procure and maintain for the duration of this Agreement, and for injuries which occur and claims which are made after the services herein are provided, insurance policies in accordance with the requirements set forth in Exhibit "C" attached and incorporated by reference herein. CONSULTANT shall also provide UNITED with a certificate of insurance attesting to its professional liability (errors and omissions) coverage and all required additional insured endorsements.

B. Submission of insurance certificates or endorsements or other proof of insurance shall not relieve CONSULTANT from liability under the indemnification provisions of Section 6. CONSULTANT's obligations in accordance with Section 6 shall apply whether or not such insurance policies shall have been determined to apply to any of such claims, damage, lawsuits, losses or liabilities covered by Section 6.

C. By its signature hereto, CONSULTANT certifies that it is aware of the provisions of California Labor Code Section 3700 which requires every employer to be insured against liability for workers compensation' or to undertake self-insurance as specified. CONSULTANT shall comply with these provisions before commencing work under this Agreement.

8. TERMINATION OF AGREEMENT

A. Termination for Cause

1. UNITED may terminate CONSULTANT's services for cause, whereupon this Agreement shall terminate immediately. Termination may occur

regardless of whether CONSULTANT's services are completed. Any termination or special instructions from UNITED shall be made in writing.

2. Termination for cause may occur upon any of the following events: (a) CONSULTANT's material breach of this Agreement; (b) abandonment or lack of diligence in performance of the work by CONSULTANT; (c) cessation, suspension, revocation or expiration of any license needed by CONSULTANT to provide services hereunder; (d) failure of CONSULTANT to substantially comply with any local, state or federal laws, regulations, ordinances or policies applicable to its work hereunder; (e) filing by or against CONSULTANT of bankruptcy or any petition under any law for relief of debtors; or (f) conviction of CONSULTANT or its principal representative or personnel for any crime other than minor traffic offenses.

3. Subject to the provisions of Section 3.B herein, CONSULTANT shall be paid for all approved services performed and approved expenses incurred to the date of termination for cause supported by documentary evidence, including payroll records and expense reports, up to the date of the termination. In the event of termination for cause, all damages and costs associated with the termination, including increased consultant and replacement consultant costs, shall be deducted from any payments due to CONSULTANT.

4. In the event a termination for cause is determined to have been made wrongfully or without cause, then the termination shall be treated as a termination for convenience in accordance with Section 8.B below, and CONSULTANT shall have no greater rights than it would have had if a termination for convenience had been effected in the first instance. No other loss, cost, damage, expense or liability may be claimed, requested or recovered by CONSULTANT.

B. Termination Without Cause/For Convenience. This Agreement may be terminated without cause by UNITED or for UNITED's convenience upon fourteen (14) days' written notice to the CONSULTANT. In the event of a termination without cause, UNITED shall pay the CONSULTANT for all approved services performed and all approved expenses incurred under this Agreement supported by documentary evidence, including payroll records and expense reports, up until the date of the notice of termination. In addition, CONSULTANT will be reimbursed for reasonable termination costs through the payment of 3% beyond the sum due to the CONSULTANT under this section through 50% completion of the CONSULTANT's portion of the Project and, if 50% completion is reached, payment of 3% of the unpaid balance of the contract to CONSULTANT as termination cost. This 3% is agreed to compensate the CONSULTANT for the unpaid profit CONSULTANT would have made under the Project on the date of termination and is consideration for entry into this termination for convenience clause.

C. In the event of termination with or without cause, CONSULTANT shall promptly provide to UNITED all Project Documents as defined in Section 9 below

within five (5) calendar days from the effective date of termination. Failure to provide all Project Documents as required shall be deemed a material breach of this Agreement.

D. In the event of a dispute as to the performance of the work or an interpretation of this Agreement, or payment or nonpayment for work performed or not performed, the parties shall attempt to resolve the dispute. Pending resolution of the dispute CONSULTANT agrees to continue the work diligently to completion. If the dispute is not resolved, CONSULTANT agrees it will neither rescind the Agreement nor stop the progress of work, but CONSULTANT's sole remedy will be to submit such controversy to determination by a court having competent jurisdiction of the dispute as required by this Agreement after the Project has been completed and not before.

9. PROFESSIONAL SERVICES

A. The CONSULTANT is employed to render a professional service(s) only and any payments made to it are compensation solely for such services as it may render and recommendations it may make in the performance of services.

B. All plans, specifications, construction documents, data, records, files, communications, information, reports and/or other documents that are prepared, generated, reproduced, maintained and/or managed by the CONSULTANT or CONSULTANT's subconsultants arising from or in any way related to the services provided under this Agreement (regardless of medium, format, etc.) shall be and remain the property of UNITED ("Project Documents"). UNITED may provide the CONSULTANT with a written request for the return of the Project Documents at any time. Upon CONSULTANT's receipt of UNITED's written request, CONSULTANT shall return the requested Project Documents to UNITED within five (5) calendar days. CONSULTANT may make copies of the work generated. Failure to comply with any such written request above shall be deemed a material breach of this Agreement. Nothing in this paragraph shall be deemed a waiver of any copyright in the Project Documents prepared by the CONSULTANT. Any unauthorized reuse or modification of such Project Documents other than for purposes intended by CONSULTANT or for the Project shall be at UNITED's risk and liability.

C. CONSULTANT agrees that all dealings of the parties under this Agreement shall be confidential and no Project Documents or information developed, prepared or assembled by CONSULTANT under this Agreement, or any information made available to CONSULTANT by UNITED, shall be revealed, disseminated or made available by CONSULTANT to any person or entity other than UNITED without the prior written consent of UNITED, unless otherwise required by subpoena or applicable law or regulatory authority.

10. INDEPENDENT CONTRACTOR RELATIONSHIP

It is expressly understood between the parties that no employee/employer relationship is intended, the relationship of CONSULTANT to UNITED being that of an independent contractor. UNITED shall not be required to make any payroll deductions or provide Worker's Compensation Insurance coverage or health benefits to CONSULTANT. CONSULTANT is solely responsible for selecting the means, methods and procedures for performing its services hereunder as assigned by the UNITED and for coordinating all portions of the work so the results will be satisfactory to UNITED. CONSULTANT will supply all tools and instruments required to perform its services under this Agreement.

11. ASSISTANCE BY UNITED

It is understood and agreed that UNITED shall, to the extent reasonable and practicable, assist and cooperate with CONSULTANT in the performance of CONSULTANT's services hereunder. Such assistance does not include, in any manner, the exercise of professional judgment for which CONSULTANT is being retained herein. Such assistance and cooperation to be provided by UNITED as applicable includes, but shall not be limited to, providing right of access to work sites; providing material available from the UNITED's files such as maps, as-built drawings, records and operation and maintenance information; and rendering assistance in determining the location of existing facilities and improvements which may be affected by the Project. CONSULTANT shall otherwise be responsible for giving all notices and complying with all applicable laws, ordinances, rules, regulations and lawful orders of any public authority relating to the work.

12. ADDITIONAL PROVISIONS

A. Examination of Records

CONSULTANT agrees that UNITED shall have access to and the right to examine at any reasonable time and on reasonable notice CONSULTANT's documents, papers and records, including accounting records, relating to its performance under this Agreement.

B. Notice

All notices or other official correspondence relating to contractual matters between the parties shall be made by depositing the same as first-class, postage paid mail addressed as follows:

To CONSULTANT: John Coffman
HDR Engineering, Inc.
625 E. Santa Clara St, #100
Ventura, CA 93001

To UNITED: Robert Richardson
United Water Conservation District
1701 North Lombard Street, Suite 200
Oxnard, CA 93030

or such other address as either party may designate hereinafter in writing delivered to the other party. All notices shall be agreed to have been received three (3) days after mailing.

C. No Waiver

No failure or delay by UNITED in asserting any of UNITED's rights and remedies as to any default of CONSULTANT shall operate as a waiver of the default, of any subsequent or other default by CONSULTANT, or of any of UNITED's rights or remedies. No such delay shall deprive UNITED of its right to institute and maintain any actions or proceedings which may be necessary to protect, assert or enforce any rights or remedies arising out of this Agreement or the performance of this Agreement.

D. Integration

This Agreement constitutes the entire agreement between the parties pertaining to the subject matter hereto, and supersedes all prior agreements, oral or written, and all prior or contemporaneous discussions or negotiations between the parties.

E. Modification

No alteration or variation of the terms of this Agreement shall be valid unless made in writing and signed by the parties.

F. Rules of Interpretation

The terms of this Agreement have been negotiated by the parties and the language used in this Agreement shall be deemed to be the language chosen by the parties to express their mutual intent. This Agreement shall be construed without regard to any presumption or rule requiring construction against the party causing such instrument to be drafted, or in favor of the party receiving a particular benefit under this Agreement. No rule of strict construction shall be applied against any party to this Agreement.

G. Partial Invalidity

If any term, covenant, condition, or provision of this Agreement is found by a court of competent jurisdiction to be invalid, void, or unenforceable, the remainder of

the provisions hereof shall remain in full force and effect, and shall in no way be affected, impaired, or invalidated thereby.

H. Incorporation of Recitals and Exhibits

The foregoing recitals and exhibits are incorporated herein as though fully set forth.

I. California Law; Dispute Resolution; Venue

This Agreement shall be interpreted and construed pursuant to the laws of the State of California, regardless of whether this Agreement is executed by any party in another state or otherwise. If a dispute arises between the parties related to this Agreement or the breach thereof, the parties shall first attempt in good faith to settle the matter through discussion, and if unsuccessful may in their discretion mutually agree to mediate the dispute prior to filing a judicial action. The costs of a third party mediator, if utilized, shall be borne equally by the parties. If either party elects to file an action in court, such action shall be filed and heard in a court of competent jurisdiction in the County of Ventura.

J. Counterparts

This Agreement may be executed in multiple counterparts, a complete set of which shall be deemed to be an original and all of which together shall comprise but a single document. Signatures may be given via facsimile transmission and shall be deemed given as of the date of facsimile transmittal of the executed Agreement by one party to the other.

IN WITNESS WHEREOF, this Agreement has been executed by the parties hereto.

UNITED WATER CONSERVATION DISTRICT

By _____ *MB*
Mauricio Guardado, General Manager

HDR Engineering, Inc.

By _____
Anna Lantin, Sr. Vice President

EXHIBIT "A" TO AGREEMENT FOR

PROFESSIONAL CONSULTING SERVICES

CONSULTANT shall provide professional engineering consultation services under this Agreement in accordance with work described in the attached **Scope of Work** and **Schedule of Charges**.

Project Phasing

Services under this Agreement are organized into the following phases:

Part 1 – Constructability Review Services

Part 2 – Bid Phase Services

Part 3 – Construction Management and Inspection Services

The detailed scope for each phase is described in Consultant's proposal and incorporated herein by reference.

Initial Authorization

The District's initial authorization under this Agreement is limited to Part 1 Constructability Review Services. Consultant shall not proceed with Part 2 Bid Phase Services or Part 3 Construction Management and Inspection Services until written authorization is issued by the District.

Project Part	Fee
Part 1 Constructability Review	$309,500
Part 2 Bid Phase Services	$68,600
Part 3 CM & Inspection Services	$2,490,300
Total Not-to-Exceed	**$2,868,400**

October 16, 2026

United Water Conservation District
Lia Monico, Engineering Assistant
1701 North Lombard Street, Suite 200, Oxnard 93030

RE: Proposal for Construction Management and Inspection Services – Phase I Extraction Barrier and Brackish Water Treatment Project

Dear Ms. Monaco and Mr. Richardson,

Thank you for selecting HDR Engineering, Inc. to provide Construction Management and Inspection Services for the Phase I Extraction Barrier and Brackish Water Treatment Project. Attached you will find our updated scope of work, fee and hourly rates for the project.

Please see attached for the following documents

- Attachment A - Scope of Work
- Attachment B - HDR Fee
- Attachment C - HDR Rate Sheet

Fee, Terms and Conditions
HDR will invoice for these services on a time-and-materials basis, in accordance with the terms and conditions of the agreement. The total fee shown in the attached fee estimate will not be exceeded, unless authorized in writing by the UWCD.

We appreciate the opportunity to provide this proposal and look forward to working with your team.

Sincerely,

HDR ENGINEERING, INC.

Anna Lantin, PE
Senior Vice President

John Coffman, PE, CCM
Associate Vice President

hdrinc.com

625 E. Santa Clara Street, Suite 100, Ventura, CA 93001-3283
(805) 585-4500

Sequence of Work and Basis of Schedule (Anticipated Dates)

Part I – Constructability Review: December 1, 2026 through July 30, 2027
Part II – Bid Phase: July 30, 2027 through October 29, 2027
Part III – Construction Phase Services: October 29, 2027 through February 28, 2029

Part 1 Constructability Review

1.1 Part I, II and III Project Management and Administration

Project Management will be a continuous task through Parts I, II and III of the Preconstruction and Bid Phase. Project administration includes formal monthly reporting summarizing Project budget and schedule, informal weekly Project updates, and staff scheduling. Part III Project Management includes Project coordination with staff in the table below, to the budgeted hours, with the District in a lead role and HDR's primary contact.

UWCD Project Manager (PM) and APM's	Kennedy Jenks Consultants (including Richard C. Slade & Associates) – Design Engineer Consultant
UWCD Engineering	Environmental Science Associates (including Larry Walker Associates) – Environmental Services Consultant
UWCD Environmental Services	Contractor(s)
UWCD Water Resources	Regulatory Agencies
UWCD Operations and Maintenance	

Additional Project Duties include the following: Assist with Public Outreach when needed and at the direction of the District, support the District in preparing progress reports and invoices to State and Federal Grant Agencies and supporting the District in compliance with State and Federal audits.
Deliverables: Parts I, II and III Project Management to the budgeted hours shown.

1.2 Weekly Virtual Progress Meetings with UWCD Project Manager

Attend weekly 30-minute virtual progress meetings with the UWCD Project Manager and HDR Construction Manager for the project duration for Parts I, II, and III. The meetings will work through construction submittals, sequencing, bidding of the work, equipment procurement, permits, material availability, staging, and other items related to the Construction Phase. We have budgeted 30 minutes per meeting.
Deliverables: Attend virtual progress meetings with the UWCD Project Manager

1.3 60% Constructability Reviews (Scope is common to tasks 1.5 and 1.6)

Provide one constructability review of 60% plans, specifications and documents. The focus will be on constructability and biddability of the project, and maintenance & operations. Comments will be provided to District in a Bluebeam session. Log comments by author, discipline, sheet and specification section. Comments will consider items to reduce construction cost, means and methods, design errors, sequencing, waste management, environmental, grant compliance measures, safety, traffic control, regulatory compliance, protection of existing facilities, risk management, utility conflicts, staging areas, potential change orders, bid readiness, and Contractor prequalification. The constructability reviews for the 60, 90, and 100% deliverables will include the following disciplines:

General	Instrumentation	Electrical
Civil	Structural	Permitting and Grant Compliance
Mechanical	Well Design and Process Mechanical	

Deliverables: 60% Review of EBB Brackish Water Plans, Specifications and other documents, in a Bluebeam session and comment log in Excel format.
Assumptions: Value Engineering Services by Certified Value Specialist (CVS) are excluded. UWCD to provide front-end documents at 60% deliverable

1.4 90% Constructability Reviews

Back check comments to 60% submittal and provide 90% review (scope per Task 1.3).
Deliverables: 90% Review of EBB Brackish Water Plans, Specifications & Front-end Documents in Bluebeam session and comment log in Excel format.

1.5 100% Constructability Reviews

Back check comments to 90% submittal and provide 100% review (scope per Task 1.3).

Deliverables: 100% Review of the EBB Brackish Water Plans, Specifications & Front-end Documents in Bluebeam session and comment log in Excel format.
Assumptions: Value Engineering Services are limited to cost reduction items and do not include specific value engineering sessions provided by certified value specialist.

1.6 Constructability Review Workshops (6)

Attend six (6) workshops to review HDR constructability comments for tasks 1.3-1.5. For each meeting with UWCD and the Navy, there will be a corresponding meeting with UWCD, HDR and the Design Engineer. Comments will be distributed in advance. The Design Engineer and Environmental Services Consultants will review HDR comments before the workshop and be prepared to discuss comments. The meetings will be in person for the Construction Manager and Document Control Staff person. Other team members will be virtual. The workshops will be four (4), three (3) and two (2) hours, respectively for the 60%, 90% and 100% milestones. HDR has budgeted for other subject matter experts to attend the meetings to the budgeted hours shown.
Deliverables: Attend six (6) workshops

1.7 Grant Funding Compliance and Funding Coordination

During the Constructability Review Period, our team will support the District in maintaining compliance with existing and future funding requirements while advancing project readiness and schedule objectives. We will review procurement strategies, project documentation, permitting pathways, and implementation approaches to support grant eligibility, reimbursement readiness, and timely project delivery. If a federal grant is awarded, we will assist with incorporating federal requirements, including Build America, Buy America (BABA), American Iron and Steel provisions, and other applicable funding conditions into project planning and procurement processes.

- Funding compliance management and grant coordination
- Federal compliance planning (BABA, AIS, and other applicable requirements)
- Procurement and funding eligibility review
- Funding agency coordination and compliance support
- Reporting and documentation framework development

Deliverables: Federal compliance implementation recommendations and reporting and documentation tracking framework

1.8 Conduct On-Site Project Site Assessments

HDR project staff will accompany UWCD and the Design Engineer to conduct an onsite reconnaissance and assessment. The site walk will observe and document current site conditions, project design constraints, and proposed locations of key project components. The site assessment will serve to provide the project team with context and direct experience with the physical location of the EBB project.
Deliverables: Site Assessment Meeting agenda and summary minutes
Assumptions: Time for one site visit by key staff is included. UWCD will coordinate access to the project site with NAVFAC.

1.9 Contractor Prequalification of Well Drillers

If UWCD elects to implement contractor prequalification, HDR will provide the following services. Prepare Contractor prequalification documents using the California Department of Industrial Relations to prequalify well drilling contractors. This process allows public agencies to screen licensed contractors for public works projects via standardized questionnaires, scoring systems, and financial disclosures. Governed largely by Public Contract Code 20101 and AB 1565, prequalification evaluates a firm's licensing, financial stability, safety record, and past project experience. Contractor's references will be checked and an overall Contractor score using the DIR process will be provided. Perform interviews of submitted Contractor references. An overall scoring package will be delivered to UWCD with Contractor provided documents. The summary will identify approved Contractors and those that were not approved.
Deliverables: Prepare Prequalification Package for Well Drillers using DIR process and present results to UWCD in excel format
Assumptions: UWCD to advertise project pre-qualification and issue addenda.

Part 2 Bid Phase Services

2.1 Front-End Document Coordination/Support

Support the District in the preparation and modification of the 100% front-end documents including Division 00 and 01 and special provisions. Provide comments in excel spreadsheet. Comments to front-end documents will be coordinated with the District's Project Manager.
Deliverables: Review 100% Front-End Documents. Provide Excel spreadsheet with comments to Division 00 and 01 specifications and special provisions.
Assumptions: District to provide final legal review of front-end document modifications

2.2 Pre-Bid Meeting

Prepare agenda and sign-in sheet for Pre-Bid Meeting. The agenda will cover sample items such as; the project duration, liquidated damages, permits, mitigation measures, reporting measures, payment procedures, substitution requests, work on active Navy Base, grant reporting requirements and other aspects of the project the District requests to be included. Attend pre-bid meeting. Document bidder questions in a log and Distribute to UWCD Project Manager for review and comment. Catalogue all attendees. Facilitate pre-bid meeting, including a review of scope, site conditions, funding agency coordination, grant reporting and reimbursement requirements, required records, constraints, permits, schedule, liquidated damages, haul routes, procedures for handling hazardous waste and other items. Prepare a list of bidder questions in tabular format and present to District. Assist with formulating responses to Contractor questions. Incorporate District feedback for a final deliverable to be made by UWCD Project Manager to prospective bidders.

Deliverables: Pre-bid meeting agenda, facilitate the meeting, provide log of bidder questions and responses.

2.3 Bid Phase Support Services

Prepare, coordinate and support the preparation of addenda. We anticipate the Design Engineer and Environmental Services Consultants will provide final input/modifications to their documents. HDR will provide administrative support to addenda such as addenda related to the coordination of front-end documents. *Deliverables:* Provide bidding support up to the budgeted hours

2.4 Attend Bid Opening

Attend bid opening. Provide support to District consisting of documenting bid results in a tabular log comparing engineer's estimate to bids received. Provide a review of bid results pricing and identify potential anomalies.

Deliverables: Attendance at Bid Opening. Provide a Bid Analysis and summary of bid results in excel format.

Part 3 Construction Management / Inspections Services

3.1 Construction Coordination

3.1.1 through 3.1.3 Construction Coordination (20 Months)

Provide Construction Coordination with the Contractor, Environmental Regulatory Compliance staff and grant funding team. Additional Project Duties include the following: Assist with Public Outreach, support the District in preparing progress reports and invoices to State and Federal Grant Agencies and supporting the District in compliance with State and Federal audits.

3.2 Preparation of Key Documents

3.2 Preparation of Key Documents

HDR will produce and/or support the following Key Documents:

Construction Management Work Plan	Update UWCD Risk Management Plan
Traffic Control Plans	Soil and Groundwater Management Plan
Hazardous Waste Management Plan	Storm Water Pollution Prevention Plan
Project Directory (Key Personnel)	QA/QC Plan

3.2.1 Construction Management Work Plan

Prepare and implement a Construction Management Plan (CMP), the roadmap for managing project delivery from contract award through construction, commissioning, startup, and closeout. The CMP will establish the processes and controls needed to achieve the District's goals for safety, quality, schedule, cost, and stakeholder satisfaction. The plan will include communications procedures throughout the duration of project. The CMP will define project-specific procedures for safety, communication, risk management, QA/QC, contractor payment administration, change management, inspections, permit compliance, document control, commissioning coordination, and stakeholder engagement. The plan will also establish decision-making processes, responsibilities, and communication protocols. Maintain the CMP as a living document, updating it throughout the contract to address changing project conditions, emerging risks, and lessons learned. The plan will also include a risk register identifying project risks as they evolve during Parts I, II and III of the project. *Deliverables:* Construction Management Plan with a risk register

3.2.2 Hazardous Waste Management Plan

HDR will prepare a Hazardous Waste Management Plan (HWMP) to identify known areas of potential concern and provide guidance to the contractor for handling potentially contaminated soil if encountered during construction of the project. The HWMP will address the small amounts of routinely used hazardous materials including but not limited to petroleum products (i.e., oil, gasoline, and diesel fuels), automotive fluids (i.e., antifreeze and hydraulic fluids), and other chemicals (i.e., adhesives, solvents, paints, thinners, and other chemicals) and the results of prior risk assessments that identified potential concerns, particularly chromium, pesticides, PCBs, petroleum products, and chlorinated hydrocarbons.

Assumptions:

- UWCD or its environmental consultant will be responsible for preparing a Phase I and II Environmental Site Assessment, as required.
- UWCD will provide soil and groundwater sampling data representative of existing conditions.
- UWCD or its contractor will provide a list of hazardous materials to be used during construction.
- Field verification of plan implementation is not included.
- UWCD's environmental consultant will provide onsite field monitoring of waste management practices.

3.2.3 Project Directory

Provide a project directory of Contractor staff, UWCD, Consultant staff and other staff as directed by UWCD. The Directory will be submitted in draft format and reviewed with the Contractor at the kickoff meeting for accuracy. Provide periodic updates to directory. Route directory through the document control system.

Deliverables: Project Directory

3.2.4 QA/QC Plan

Prepare a project-specific QA/QC Plan defining policies and procedures for onsite construction and start-up and commissioning activities. Submit draft and final versions of the Plan and update the approved Plan as the Project progresses. *Deliverables:* QA/QC Plan

3.2.5 Risk Management Plan

Provide input and expand upon the District's existing Risk Register (RR). The District's RR will identify the project issues, outline the risk and provide mitigation measures (which will evolve pending the circumstances). The RR will evaluate the likelihood and consequences of risk and provide an overall Risk Score. The RR will be revisited each month with the UWCD PM. *Deliverables:* Risk Register, maintain through Part III

3.2.6 Soil and Groundwater Management Plan

Prepare a Soil and Groundwater Management Plan to support construction of the Project. The Plan will provide acceptable locations for the interim storage of soil materials during construction and sampling and testing requirements to determine if the soil is feasible for backfill or if offsite disposal is required. The plan will also provide management parameters for groundwater pumped during construction. HDR assumes that the water being pumped, depending on the results of the analytical testing, may be disposed of into the Mugu Lagoon which will require an NPDES/WDR permit from the Regional Water Quality Control Board (RWQCB). The conditions of the permit will be based on the test results of the analytes listed in the Los Angeles RWQCB General Order for Groundwater Dewatering Discharges (Order No. R4-2023-0429). Using existing water quality data, the Plan will identify the discharge locations; planned period of discharge; frequency of discharge; and BMPs to minimize impacts to receiving water quality.

Assumptions:

- UWCD or its contractor will be responsible for filing a Notice of Intent (NOI) to comply with Order No. R4-2023-0429.
- UWCD will provide soil and groundwater sampling data representative of existing conditions.
- UWCD or Contractor will be responsible for water quality testing and analysis during dewatering operations.
- Dewatering discharge locations will avoid SWRCB defined Areas of Special Biological Significance.
- Construction Contractor will prepare a separate Construction Dewatering Plan.
- Field verification of plan implementation is not included.
- UWCD's environmental consultant will provide onsite field monitoring of soil, air, and groundwater.

3.2.7 Stormwater Pollution Prevention Plan

Review and confirm risk level assessment (assumed Risk Level 2 project) prepared from the EA and develop a draft Stormwater Pollution Prevention Plan (SWPPP) for the project for coverage under a Construction General Permit (CGP). The draft project SWPPP will be prepared under the supervision of a Qualified SWPPP Developer (QSD), as required by the Construction General Permit.

Assumptions:

- Permit fees are by UWCD.
- The Draft SWPPP and WDID number may be required to acquire permits from applicable resource agencies before bid advertisement.
- The project designer will provide post construction documentation in accordance with Section IV.N. Post-Construction Requirements of the CGP order no. 2022-0057-DWQ.
- The Draft SWPPP will be used to inform the contract documents during bid advertisement and may not be used for soil disturbance.
- Contractor will prepare and own the SWPPP during construction. The contractor may use the Draft SWPPP as a guide. Once contractor SWPPP is approved and uploaded to SMARTS, the contractor may disturb soil.
- Includes SMARTS Administration support before bid advertisement and during construction.
- Project designer will provide erosion control plans for use in the SWPPP.

3.2.8 Traffic Control Plan

Provide Traffic Control Plans (TCP) to support groundwater (GW) extraction well construction activities for the pipeline alignment (approximately 6,000 linear feet of construction) prepared by a licensed traffic engineer. The work shall include evaluation of existing roadway conditions, identification of traffic

impacts associated with construction operations, development of temporary traffic control measures, lane and shoulder closure requirements, signing and channelization layouts, pedestrian and bicycle accommodation (if applicable), and detour plan as needed. The TCP shall be prepared in accordance with applicable Navy and/or County of Ventura traffic control requirements and the latest California MUTCD standards and includes up to three plan sheets and supporting details necessary for permitting and construction implementation.

Assumptions

- Existing traffic count data will be provided by UWCD or the Navy. New traffic counts are excluded.
- Scope covers the pipeline alignment and well sites, which includes 3 sheets for the TCP and one sheet for a detour plan (if needed)

3.3 Organizing and Conducting Meetings

Organizing and Conducting Meetings

Attend the following meetings during construction with the frequency noted below. **Fee for meetings are in fee estimate, see tasks 3.3.1 - 3.3.5**

District Meeting w/Staff (weekly 1 hour)	Pre-Bid Meeting (covered in Part II scope)
District's Consultants monthly (one meeting for all)	Pre-Construction Meeting
Contractor (weekly 1 hour progress meeting)	

Deliverable: Meeting agenda and minutes for the above meetings, in the stated frequency.

3.4 Preparation and/or Management of Construction Documents

Preparation and/or Management of Construction Documents

Provide a construction document portal. Contractor, District and Consultant teams will have access. HDR has budgeted for 15 Licenses for a duration of 19 months. HDR will host the service through the construction period. Individual users will reach out for technical support, if needed. HDR can host one, 1-hour training session for the Contractor, District and other support staff that choose to join. The portal will include the following documents. Upon completion of Part III, HDR will provide UWCD an electronic export of the project records maintained in the document control system.

Insurance and Bonds	Non-Conformance, Non-Compliance Notices	Key Correspondence	Spare Parts Inventories
Contractor Submittals	Stop Work Notices	Photos	Training Manuals
Shop Drawings	Construction Schedule	Punch-List	Final Project Report
Requests for Information (RFI)	Construction Progress Reports	Warranties	Certificates of Completion
Work Directives	Material Test Reports	As-Built Drawings	
Change Orders, Potential Change Orders	Permits	Operations and Maintenance Manuals	

3.5 Construction Coordination

3.5.1 Construction Administration, Observation, and Inspection Services

Coordinate the below inspections and testing throughout the duration of the Construction. The Document Control specialist will provide daily support for the project on a full-time basis.

Maintaining Action Item and Decision Logs	Ensuring Construction Contract Compliance
Conducting Daily Construction Observation	Review and analysis of Contractor Baseline Schedule, Schedule Updates, Critical Path Activities,
Conducting Specialty Inspections (e.g. soils, reinforcing steel, concrete, structural steel, welding, bolting)	Recovery Schedules, and Time-Impact Analysis
Monitoring Site Safety	Monitoring Construction Schedule
Acceptance and Close-out	Review of Contractor's Payment Requests
Preparing Daily Construction Progress Reports	Contractor Claim Evaluation, Analysis, and Negotiation Support
Support Testing, Start-up, and Commissioning	Review of Certified Payrolls
Coordinating with External Agencies	

Provide the following inspections.

Construction Daily Reports: These reports will be entered and submitted through the document control system, documenting schedule activities, manpower, equipment, construction notes, and daily, digital, date stamped, color photographs.
General Inspections: HDR will observe, document, and assess the acceptability of construction work. Inspectors will provide prompt communication and clear documentation. Update as-built drawings daily, record work, testing, observations, and discussions. Prepare daily construction reports and review the Contractor's reports, documenting labor, materials, equipment, weather, issues, visitors, work changes, questions, directions, and disputed work. Provide monthly reports on activities, milestones, schedule, changes, costs, RFIs, submittals, and photos.
Non-Conformance Reporting: HDR will observe, inspect and monitor construction to ensure conformance with plans and specifications. Should work not meet the requirements of the contract and/ or the code, HDR will notify UWWD and the contractor immediately. If the work is not rectified, the item will be documented, and a formal issue of Non-Conformance will be sent to the Contractor.
Photographic Records: Photograph work and any changed conditions, disputed work, and extra work, and will identify photos with a description and date. All photo documentation is logged and filed.
Electrical and Instrumentation Inspections: Inspection/monitoring/reporting, factory testing, field testing, participation in meetings, loop diagram checking, field installation verification, and required certification. HDR will provide experienced field inspectors for full or part-time inspections relevant to electrical and instrumentation work. Field issues will be brought to the immediate attention of the Contractor for corrective action. If necessary, and when an issue is not resolved in the field, the inspector will escalate it to the construction manager for follow up to get the issue resolved. HDR will observe, inspect and verify field installations of the electrical systems to ensure it meets functionality and code requirements. The electrical inspector will observe and verify the completeness of wiring diagram all loops check.
Specialty Pipeline Inspection & Mechanical Inspections: HDR will provide certified inspectors to provide mechanical inspections of piping, equipment/appurtenances. Work is monitored and reports are completed daily for the resident engineer/UCWD review. Field issues will be brought to the attention of Contractor for correction action. If necessary, and when issue is not resolved in the field, the inspector will escalate it to the project manager for follow up to get the issue resolved.

Specialty Structural Inspections: HDR will provide certified special inspectors for reinforced concrete, structural steel, bolting, and other structural work that requires a special inspector.
SWPPP Inspections: HDR's onsite inspection staff will provide SWPPP inspections, pre and post storm events and routine inspections outside of storm events to confirm the Contractor follows the SWPPP. The inspection forms will be signed off by HDR's QSD and filed in the document control system. HDR will provide an annual report to UWCD and the SWRCB.
Marine Inspections: HDR's subconsultant Longitude 123 will provide up to 60 hours of marine inspection support to the marine work for the project. The inspection services do not include any provisions for providing marine vessels or diving services. Inspections will be shore based or performed using the Contractor's vessel. Diver services are not included.
Materials Testing and Inspections: HDR's subconsultant Earth Systems will provide up to 878 hours of testing and inspection services to include compaction testing, Special Inspections, micro pile inspections, concrete placement and asphalt testing and placement. Earth Systems will provide: 12 Max Density Tests, 6 Direct Shear Test, 10 Sand Equivalents, five expansion indices, 12 aggregate base max density tests, 10 sieve analysis, three R-Values, 75 concrete compressive tests, 16 compressive tests for micro pile grout and two asphalt compaction tests.
Deliverables: Daily Inspection Reports documenting the work. Daily photographs of the work (time and date stamped). Materials inspections for earthwork, concrete, rebar, anchor bolt testing, pavement and other required materials tests based on the 30% plans. SWPPP Inspections and annual reporting in compliance with the SWPPP

3.6 Grant and Loan Compliance

Grant and Loan Compliance
Throughout construction, our team will provide ongoing grant compliance, reimbursement, reporting, and funding coordination support to maintain funding eligibility and support successful audits. We will assist the District with reimbursement requests, grant reporting, agency coordination, compliance monitoring, and project record management. Following construction, we will support grant closeout activities, including final reporting, reimbursement documentation, and organization of records for audit and long-term retention requirements.

- Funding compliance management
- Contractor compliance documentation review
- Reimbursement support
- Grant reporting coordination
- Funding agency coordination
- Grant closeout support

Deliverables

- Audit-ready project documentation files
- Reimbursement support packages
- Cost eligibility documentation
- Grant progress reports and funding status updates
- Responses to agency information requests
- Grant closeout package
- Organized electronic project records

3.7 Navy Coordination and Meetings

Coordinate with UWCD and US Navy personnel. Provide up to four (4) hours of coordination support per week with HDR's NAVFAC Point Mugu Liaison through the duration of the project. The coordination will consist of attending meetings, performing support to the project that will consist of in person site visits, meetings with Navy personnel.

Deliverable: Weekly meeting attendance and project support to the US Navy Representative and UWCD Project Manager. 4 hours per week with the NAVFAC Point Mugu Liaison.

Deliverables

- Four (4) hours of support per week with HDR's Point Mugu Navy Liaison

3.8 As needed Hazardous Waste Field Support

HDR will provide hazardous waste support and Contractor oversight services during construction. Andrew Cherene will provide field support for up to sixty (60) hours. HDR will provide the following support on an as needed basis:

- Compliance that field activities including hazardous sampling are conforming to soil and groundwater management plans
- Evaluate that BMPs for soil management are per the approved Hazardous Waste Management Plans

Deliverables

- Written Daily field notes.

Assumptions

- Contractor to secure analytical samples under their chain of custody for lab analysis.

3.9 Schedule Review and Claims Support

3.9.1 Perform Schedule Reviews

Provide a review of the Contractor's baseline schedule and subsequent schedule updates. We will provide the following services:

- Perform a review of the Contractor's initial baseline schedule for conformance to the Contract documents.
- Provide a review of the duration of activities, logic ties and critical path
- Provide a review of monthly schedule updates

Deliverables

- Provide comments on the preliminary baseline schedule
- Provide comments on monthly schedule updates

Assumptions

- One Contract package for well drilling and well equipping

3.9.2 Claims Support

In the event of unresolved change orders that turn into a potential claim, provide up to 26 hours of Claims Support with a senior scheduler. It is anticipated these services would be required during the stated schedule of the project.

Deliverables

- Provide up to 26 hours of claims support

Optional Services

3.10 Well Drilling Inspections

Provide part-time technical oversight to provide field support by an Engineer in Training or Geologist in training (minimum). Provide up to 840 hours of field support during an assumed 18-weeks of well drilling for the seven (7) wells at five locations.

- Geophysical Logging
- Surface Casing Install and Grouting
- Production String Install and Filter Pack/ Grouting
- Pump Testing
- Video Log

Assumptions:

- District, Design Engineer or Contractor will provide a hydrogeologist to oversee the drilling, logging, well construction, and well development during drilling phase.
- Travel time has been budgeted and is included with the fee herein.

Construction Procedures

Consultant's observation or monitoring portions of the work performed under construction contracts pertaining to field visits shall not relieve the contractor from its responsibility for performing work in accordance with applicable contract documents. Consultant shall not control or have charge of, and shall not be responsible for, construction means, methods, techniques, sequences, procedures of construction, health or safety programs or precautions connected with the work, and shall not manage, supervise, control, or have charge of construction. Consultant shall not be responsible for the acts or omissions of the contractor or other parties on the project.

Proposal Assumptions:

1. The project will be hosted in a document control system to be determined. If the US Navy requires the project to be hosted in the Enclave, we reserve the right to amend the scope due to increased efforts.
2. Project Construction will be complete by February 2029.
3. Well Drilling (7 wells) will take 18 weeks.
4. This scope does not include the preparation of environmental permit applications or documents needed to support environmental permitting. Permits, such as, Clean Water Act Section 10/Section 404 (U.S. Army Corps of Engineers), CWA Section 401 (California Regional Water Quality Control Board), National Marine Fisheries Service Essential Fish Habitat/Endangered Species Act (ESA) consultation/concurrence, U.S. Fish and Wildlife ESA Section 7 consultation, and California Coastal Commission Negative Determination or Coastal Development Permit, will be in place prior to the start of construction and copies provided.
5. HDR assumes all permits will be received at least 90 days before construction to allow for preparation of the following (by others); an Environmental Compliance Monitoring Plan, permit compliance materials, environmental awareness training, coordination of pre-construction surveys, BMP installation, and implementation of other permit-required measures.
6. Project construction is anticipated to occur over a period of 19 months. Should construction be substantially delayed or extended, additional scope and fee would be required.
7. This scope does not include conducting an updated aquatic resources delineation, general biological survey or focused species (plants or wildlife) surveys.

8. This scope does not include the preparation of additional monitoring (such as a Fish Rescue Plan) or post-construction plans (such as a Revegetation Plan).
9. We assume the NEPA EA conforms with the INRMP for Naval Base Ventura County Point Mugu (NBVC Point Mugu) and future permits and no additional assessments are needed to comply.
10. Overtime rates for field staff is charged at 1.5x straight time rate.
11. District is leading funding application development. HDR is providing post funding award compliance support.



Schedule of Charges

ROLE	BILLABLE RATE
Principal	$435
Construction Manager	$350
Quality Manager	$354
Geotechnical Engineer	$294
Project Manager	$397
Document Controls	$142
Cost Estimator	$320
Inspection Staff	$240
Scheduling	$360
Start-up Commissioning	$250
Bio Monitor	$224
Culture Monitor Practice Lead	$254
Structural Engineer	$224
Senior Instrumentation Engineer	$168
Electrical Engineer	$228
Senior Mechanical Engineer	$384
Well Construction Technical Advisor	$368
Hazardous Waste Manager	$317
Accountant	$125
NAVFAC Point Mugu Liaison	$254
Civil Engineer	$272
Project Coordinator	$137
Grant Funding Support	$140
Startup and Commissioning Support	$331
Quality Control Manager	$471
Construction Inspector	$210
Environmental Compliance Manager	$298
Lead Biologist	$331
Senior Traffic Engineer	$331
Environmental Scientist	$175
Well Drilling Resident Project	$135
Field Engineering Support	$124
Certified Industrial Hygenist	$280
Resident Inspector I	$210
Resident Inspector II	$260
Geologist	$175
Senior Cost Estimator	$315
Senior Construction Manager	$390

This rate schedule is valid for the duration of the project. Should work extend beyond FY 2029, an annual rate escalation of 3% will be applied.

United Water Conservation District
EBB Brackish Water Part 1 Constructability Reviews Services
Estimated Level of Effort and Fee

TASKS		LEVEL OF EFFORT										FEE			
No.	Description	Principal	Quality Control Manager	Construction Manager	Senior Traffic Engineer	Senior Schedule Reviewer	Hazardous Waste Manager	Well Construciton Technical Advisor	Senior Mechanical Engineer	Lead Biologist	Startup and Commissioning Support	Total Labor	Labor	Subs	Direct Costs	Total
	Client Billing Rates	*$435*	*$471*	*$350*	*$331*	*$330*	*$317*	*$368*	*$384*	*$331*	*$331*	*$0*				
	CM Client Billing Rates	*$399*	*$396*	*$300*		*$330*	*$266*	*$320*	*$384*	*$278*	*$278*	*$210*				
1	Part 1 Constructability Review (12/1/2026 to 7/30/2027)															
1.1	Part I, II & III Project Management/Administration (12/2026 to 02/2029)	7		88								252	$53,413	$0	$0	$53,413
1.2	Weekly Virtual Progress Meetings with UWCD Project Manager			115			10					147	$46,668	$0	$0	$46,668
1.3	60% Constructability Reviews			26	7		9	20	18		8	201	$53,918	$7,935	$0	$61,853
1.4	90% Constructability Reviews			28	5		8	12	13		5	173	$45,652	$5,750	$0	$51,402
1.5	100% Constructability Reviews				4		8	12	8		4	112	$27,766	$4,600	$0	$32,366
1.6	Constructability Review Workshops (6)			36	4		8	8				70	$21,140	$0	$0	$21,140
1.7	Grant Funding Compliance and Funding Coordination											22	$3,080	$0	$0	$3,080
1.8	Conduct On-Site Project Site Assessments			10	10		10			11		86	$23,831	$0	$0	$23,831
1.90	Contractor Prequalification of Well Drillers			8			2	2				74	$15,706	$0	$0	$15,706
	Subtotal 1 | Part 1 Constructability Review (12/1/2026 to 7/30/2027)	7	0	311	30	0	55	54	39	11	17	1,137	$291,174	$18,285	$0	$309,459
2	Part 2 Bid Phase Services (7/30/2027-10/29/2027)															
2.1	Front-End Document Coordination and Support			18								35	$8,408	$0	$0	$8,408
2.2	Pre-Bid Meeting			18			5	10				38	$12,185	$0	$0	$12,185
2.3	Bid Phase Support Services			32			8	16	2	4		118	$32,082	$12,190	$0	$44,272
2.4	Attend Bid Opening		3	6								11	$3,761	$0	$0	$3,761
	Subtotal 2 | Part 2 Bid Phase Services (7/30/2027-10/29/2027)	0	3	74	0	0	13	26	2	4	0	202	$56,436	$12,190	$0	$68,626
3	Part 3 CM & Inspection Services (10-29-27 to 2-28-2029															
3.1	**Construction Coordination**											0	$0	$0	$0	$0
3.1.1	Contractor Coordination (1 hours per week)			88								88	$26,400	$0	$0	$26,400
3.1.2	Environmental Regluatory Compliance (1 hour per week)			88								114	$32,900	$0	$0	$32,900
3.1.3	Grant Funding Compliance			26								26	$7,800	$0	$0	$7,800
3.2	**Preparation of Key Documents**											0	$0	$0	$0	$0
3.2.1	Construction Management Work Plan		10	22								50	$12,720	$0	$0	$12,720
3.2.2	Hazardous Waste Management Plan		4	10			26					107	$21,119	$0	$0	$21,119
3.2.3	Project Directory											4	$480	$0	$0	$480
3.2.4	QA/QC Plan		4	8								12	$3,984	$0	$0	$3,984
3.2.5	Risk Management Plan			8								8	$2,400	$0	$0	$2,400
3.2.6	Soil and Groundwater Management Plan		4	8			26			9		120	$24,781	$0	$0	$24,781
3.2.7	Storm Water Pollution Prevention Plan		2	2								70	$13,566	$0	$0	$13,566
3.2.8	Traffic Control Plan		2									42	$10,272	$0	$0	$10,272
3.3	**Organizing and Conducting Meetings**											0	$0	$0	$0	$0
3.3.1	District Meetings (Weekly) / 82 weekly mtg's			84			14					118	$31,864	$0	$0	$31,864
3.3.2	District Consultant Meetings (KJ, ESA etc.)			44			9					63	$17,064	$0	$0	$17,064
3.3.3	Contractor Meetings (Weekly 1- hour check in)			86			20					126	$34,060	$0	$0	$34,060
3.3.4	Pre Bid Meeting (4-hours)			14			4	4		4		30	$8,656	$0	$0	$8,656
3.3.5	Pre-Construction Meeting (2-hour)		2	18			2	4		4		34	$10,116	$0	$0	$10,116
3.4	**Preparation & Management of Construction Documents**		6	300								2,685	$377,856	$0	$20,000	$397,856
3.5	**Construction Coordination**											0	$0	$0	$0	$0
3.5.1	Construction Coordination & Inspections		26	1,307			20				70	4,463	$1,069,486	$336,490	$21,750	$1,427,726
3.6	**Grant and Loan Compliance**		12	48								210	$37,152	$0	$0	$37,152
	Subtotal 3 | Part 3 CM & Inspection Services (10-29-27 to 2-28-2029	0	72	2,161	0	0	121	8	0	17	70	8,370	$1,742,676	$336,490	$41,750	$2,120,916
3.7	Navy Coordination and Meetings															
3.7.1	Navy Coordination and Meetings						5					549	$112,883	$0	$0	$112,883
	Subtotal 3.7 | Navy Coordination and Meetings	0	0	0	0	0	5	0	0	0	0	549	$112,883	$0	$0	$112,883
3.8	As needed Hazardous Waste Field Support															
3.8.1	As needed Hazardous Waste Field Support						63					63	$16,758	$0	$0	$16,758
	Subtotal 3.8 | As needed Hazardous Waste Field Support	0	0	0	0	0	63	0	0	0	0	63	$16,758	$0	$0	$16,758
3.9	Schedule Review and Claims Services															
3.9.1	Baseline Schedule Reviews (1) and Schedule Updates (26)					71						290	$49,710	$0	$0	$49,710
3.9.2	Claims Support					26						26	$8,580	$0	$0	$8,580
	Subtotal 3.9 | Schedule Review and Claims Services	0	0	0	0	97	0	0	0	0	0	316	$58,290	$0	$0	$58,290
	TOTAL, hours	7	75	2,546	30	97	257	88	41	32	87	10,637				
	TOTAL, dollars												$2,278,217	$366,965	$41,750	$2,686,932
	OPTIONAL TASKS	**OPTIONAL LEVEL OF EFFORT**											**OPTIONAL FEE**			
3.10	Well Drilling Inspections															
3.10.1	Well Drilling Inspections						20	40				955	$140,275	$0	$41,160	$181,435
	Subtotal 3.10 | Well Drilling Inspections	0	0	0	0	0	20	40	0	0	0	955	$140,275	$0	$41,160	$181,435
	TOTAL for Optional Tasks, hours	0	0	0	0	0	20	40	0	0	0	955				
	TOTAL for Optional Tasks, dollars												$140,275	$0	$41,160	$181,435
	TOTAL for all Tasks (including Optional Tasks), hours	7	75	2,546	30	97	277	128	41	32	87	11,592				
	TOTAL for all Tasks (including Optional Tasks), dollars												$2,418,492	$366,965	$82,910	$2,868,367

United Water Conservation District
EBB Brackish Water Part 1 Constructability Reviews Services
Estimated Level of Effort and Fee

No.	Description	TASKS: Senior Cost Estimator	Environmental Compliance Manager	Geotechnical Engineer	Resident Inspector II	Resident Inspector I	Well Drilling Resident Project	Geotechnical Engineer in Training	Field Engineering Support	Culture Monitor Practice Lead	Electrical Engineer	Total Labor	FEE: Labor	Subs	Direct Costs	Total
	Client Billing Rates	*$315*	*$298*	*$294*	*$260*	*$210*	*$135*	*$149*	*$124*	*$254*	*$228*	*$0*				
	CM Client Billing Rates	*$278*	*$250*	*$210*	*$210*	*$210*	*$135*	*$149*	*$120*	*$254*	*$228*	*$210*				
1	**Part 1 Constructability Review (12/1/2026 to 7/30/2027)**															
1.1	Part I, II & III Project Management/Administration (12/2026 to 02/2029)								57			252	$53,413	$0	$0	$53,413
1.2	Weekly Virtual Progress Meetings with UWCD Project Manager								18	4		147	$46,668	$0	$0	$46,668
1.3	60% Constructability Reviews			3					17	6	30	201	$53,918	$7,935	$0	$61,853
1.4	90% Constructability Reviews			2					17	6	28	173	$45,652	$5,750	$0	$51,402
1.5	100% Constructability Reviews			2					17	4	24	112	$27,766	$4,600	$0	$32,366
1.6	Constructability Review Workshops (6)								14			70	$21,140	$0	$0	$21,140
1.7	Grant Funding Compliance and Funding Coordination											22	$3,080	$0	$0	$3,080
1.8	Conduct On-Site Project Site Assessments		11	2					4	12		86	$23,831	$0	$0	$23,831
1.90	Contractor Prequalification of Well Drillers								36			74	$15,706	$0	$0	$15,706
	Subtotal 1 | Part 1 Constructability Review (12/1/2026 to 7/30/2027)	0	11	9	0	0	0	0	180	32	82	1,137	$291,174	$18,285	$0	$309,459
2	**Part 2 Bid Phase Services (7/30/2027-10/29/2027)**															
2.1	Front-End Document Coordination and Support								17			35	$8,408	$0	$0	$8,408
2.2	Pre-Bid Meeting								5			38	$12,185	$0	$0	$12,185
2.3	Bid Phase Support Services		5	3					12		3	118	$32,082	$12,190	$0	$44,272
2.4	Attend Bid Opening								2			11	$3,761	$0	$0	$3,761
	Subtotal 2 | Part 2 Bid Phase Services (7/30/2027-10/29/2027)	0	5	3	0	0	0	0	36	0	3	202	$56,436	$12,190	$0	$68,626
3	**Part 3 CM & Inspection Services (10-29-27 to 2-28-2029**															
3.1	**Construction Coordination**											0	$0	$0	$0	$0
3.1.1	Contractor Coordination (1 hours per week)											88	$26,400	$0	$0	$26,400
3.1.2	Environmental Regluatory Compliance (1 hour per week)		26									114	$32,900	$0	$0	$32,900
3.1.3	Grant Funding Compliance											26	$7,800	$0	$0	$7,800
3.2	**Preparation of Key Documents**											0	$0	$0	$0	$0
3.2.1	Construction Management Work Plan								18			50	$12,720	$0	$0	$12,720
3.2.2	Hazardous Waste Management Plan		4						22			107	$21,119	$0	$0	$21,119
3.2.3	Project Directory								4			4	$480	$0	$0	$480
3.2.4	QA/QC Plan											12	$3,984	$0	$0	$3,984
3.2.5	Risk Management Plan											8	$2,400	$0	$0	$2,400
3.2.6	Soil and Groundwater Management Plan		12						20			120	$24,781	$0	$0	$24,781
3.2.7	Storm Water Pollution Prevention Plan		24									70	$13,566	$0	$0	$13,566
3.2.8	Traffic Control Plan											42	$10,272	$0	$0	$10,272
3.3	**Organizing and Conducting Meetings**											0	$0	$0	$0	$0
3.3.1	District Meetings (Weekly) / 82 weekly mtg's											118	$31,864	$0	$0	$31,864
3.3.2	District Consultant Meetings (KJ, ESA etc.)											63	$17,064	$0	$0	$17,064
3.3.3	Contractor Meetings (Weekly 1- hour check in)											126	$34,060	$0	$0	$34,060
3.3.4	Pre Bid Meeting (4-hours)		4									30	$8,656	$0	$0	$8,656
3.3.5	Pre-Construction Meeting (2-hour)		4									34	$10,116	$0	$0	$10,116
3.4	**Preparation & Management of Construction Documents**								2,379			2,685	$377,856	$0	$20,000	$397,856
3.5	**Construction Coordination**											0	$0	$0	$0	$0
3.5.1	Construction Coordination & Inspections	40			483	2,500						4,463	$1,069,486	$336,490	$21,750	$1,427,726
3.6	**Grant and Loan Compliance**											210	$37,152	$0	$0	$37,152
	Subtotal 3 | Part 3 CM & Inspection Services (10-29-27 to 2-28-2029	40	74	0	483	2,500	0	0	2,443	0	0	8,370	$1,742,676	$336,490	$41,750	$2,120,916
3.7	**Navy Coordination and Meetings**															
3.7.1	Navy Coordination and Meetings						24	24				549	$112,883	$0	$0	$112,883
	Subtotal 3.7 | Navy Coordination and Meetings	0	0	0	0	0	24	24	0	0	0	549	$112,883	$0	$0	$112,883
3.8	**As needed Hazardous Waste Field Support**															
3.8.1	As needed Hazardous Waste Field Support											63	$16,758	$0	$0	$16,758
	Subtotal 3.8 | As needed Hazardous Waste Field Support	0	0	0	0	0	0	0	0	0	0	63	$16,758	$0	$0	$16,758
3.9	**Schedule Review and Claims Services**															
3.9.1	Baseline Schedule Reviews (1) and Schedule Updates (26)								219			290	$49,710	$0	$0	$49,710
3.9.2	Claims Support											26	$8,580	$0	$0	$8,580
	Subtotal 3.9 | Schedule Review and Claims Services	0	0	0	0	0	0	0	219	0	0	316	$58,290	$0	$0	$58,290
	TOTAL, hours	40	90	12	483	2,500	24	24	2,878	32	85	10,637				
	TOTAL, dollars												$2,278,217	$366,965	$41,750	$2,686,932
	OPTIONAL TASKS												**OPTIONAL FEE**			
3.10	**Well Drilling Inspections**															
3.10.1	Well Drilling Inspections						800	95				955	$140,275	$0	$41,160	$181,435
	Subtotal 3.10 | Well Drilling Inspections	0	0	0	0	0	800	95	0	0	0	955	$140,275	$0	$41,160	$181,435
	TOTAL for Optional Tasks, hours	0	0	0	0	0	800	95	0	0	0	955				
	TOTAL for Optional Tasks, dollars												$140,275	$0	$41,160	$181,435
	TOTAL for all Tasks (including Optional Tasks), hours	40	90	12	483	2,500	824	119	2,878	32	85	11,592				
	TOTAL for all Tasks (including Optional Tasks), dollars												$2,418,492	$366,965	$82,910	$2,868,367

United Water Conservation District
EBB Brackish Water Part 1 Constructability Reviews Services
Estimated Level of Effort and Fee

No.	Description	TASKS: NAVFAC Point Mugu Liaison	Civil Engineer	Structural Engineer	Geologist	Environmental Scientist	Senior Instrumentation Engineer	Grant Funding Support	Certified Industrial Hygenist	Accountant	Total Labor	FEE: Labor	Subs	Direct Costs	Total
	Client Billing Rates	*$254*	*$272*	*$224*	*$175*	*$175*	*$168*	*$140*	*$280*	*$125*	*$0*				
	CM Client Billing Rates	*$214*	*$237*	*$224*	*$141*	*$147*	*$168*	*$120*	*$280*	*$135*	*$210*				
1	Part 1 Constructability Review (12/1/2026 to 7/30/2027)														
1.1	Part I, II & III Project Management/Administration (12/2026 to 02/2029)									100	252	$53,413	$0	$0	$53,413
1.2	Weekly Virtual Progress Meetings with UWCD Project Manager										147	$46,668	$0	$0	$46,668
1.3	60% Constructability Reviews		8	15	9	9	16				201	$53,918	$7,935	$0	$61,853
1.4	90% Constructability Reviews		9	13	7	7	13				173	$45,652	$5,750	$0	$51,402
1.5	100% Constructability Reviews		5	8	5	5	6				112	$27,766	$4,600	$0	$32,366
1.6	Constructability Review Workshops (6)										70	$21,140	$0	$0	$21,140
1.7	Grant Funding Compliance and Funding Coordination							22			22	$3,080	$0	$0	$3,080
1.8	Conduct On-Site Project Site Assessments				6	10					86	$23,831	$0	$0	$23,831
1.90	Contractor Prequalification of Well Drillers		26								74	$15,706	$0	$0	$15,706
	Subtotal 1 | Part 1 Constructability Review (12/1/2026 to 7/30/2027)	**0**	**48**	**36**	**27**	**31**	**35**	**22**	**0**	**100**	**1,137**	**$291,174**	**$18,285**	**$0**	**$309,459**
2	Part 2 Bid Phase Services (7/30/2027-10/29/2027)														
2.1	Front-End Document Coordination and Support										35	$8,408	$0	$0	$8,408
2.2	Pre-Bid Meeting										38	$12,185	$0	$0	$12,185
2.3	Bid Phase Support Services		2	3		18	2	8			118	$32,082	$12,190	$0	$44,272
2.4	Attend Bid Opening										11	$3,761	$0	$0	$3,761
	Subtotal 2 | Part 2 Bid Phase Services (7/30/2027-10/29/2027)	**0**	**2**	**3**	**0**	**18**	**2**	**8**	**0**	**0**	**202**	**$56,436**	**$12,190**	**$0**	**$68,626**
3	Part 3 CM & Inspection Services (10-29-27 to 2-28-2029														
3.1	**Construction Coordination**										**0**	**$0**	**$0**	**$0**	**$0**
3.1.1	Contractor Coordination (1 hours per week)										88	$26,400	$0	$0	$26,400
3.1.2	Environmental Regluatory Compliance (1 hour per week)										114	$32,900	$0	$0	$32,900
3.1.3	Grant Funding Compliance										26	$7,800	$0	$0	$7,800
3.2	**Preparation of Key Documents**										**0**	**$0**	**$0**	**$0**	**$0**
3.2.1	Construction Management Work Plan										50	$12,720	$0	$0	$12,720
3.2.2	Hazardous Waste Management Plan				8	33					107	$21,119	$0	$0	$21,119
3.2.3	Project Directory										4	$480	$0	$0	$480
3.2.4	QA/QC Plan										12	$3,984	$0	$0	$3,984
3.2.5	Risk Management Plan										8	$2,400	$0	$0	$2,400
3.2.6	Soil and Groundwater Management Plan				8	33					120	$24,781	$0	$0	$24,781
3.2.7	Storm Water Pollution Prevention Plan					42					70	$13,566	$0	$0	$13,566
3.2.8	Traffic Control Plan		40								42	$10,272	$0	$0	$10,272
3.3	**Organizing and Conducting Meetings**										**0**	**$0**	**$0**	**$0**	**$0**
3.3.1	District Meetings (Weekly) / 82 weekly mtg's					20					118	$31,864	$0	$0	$31,864
3.3.2	District Consultant Meetings (KJ, ESA etc.)					10					63	$17,064	$0	$0	$17,064
3.3.3	Contractor Meetings (Weekly 1- hour check in)					20					126	$34,060	$0	$0	$34,060
3.3.4	Pre Bid Meeting (4-hours)										30	$8,656	$0	$0	$8,656
3.3.5	Pre-Construction Meeting (2-hour)										34	$10,116	$0	$0	$10,116
3.4	**Preparation & Management of Construction Documents**										**2,685**	**$377,856**	**$0**	**$20,000**	**$397,856**
3.5	**Construction Coordination**										**0**	**$0**	**$0**	**$0**	**$0**
3.5.1	Construction Coordination & Inspections								17		4,463	$1,069,486	$336,490	$21,750	$1,427,726
3.6	**Grant and Loan Compliance**							150			**210**	**$37,152**	**$0**	**$0**	**$37,152**
	Subtotal 3 | Part 3 CM & Inspection Services (10-29-27 to 2-28-2029	**0**	**40**	**0**	**16**	**158**	**0**	**150**	**17**	**0**	**8,370**	**$1,742,676**	**$336,490**	**$41,750**	**$2,120,916**
3.7	Navy Coordination and Meetings														
3.7.1	Navy Coordination and Meetings	475				21					549	$112,883	$0	$0	$112,883
	Subtotal 3.7 | Navy Coordination and Meetings	**475**	**0**	**0**	**0**	**21**	**0**	**0**	**0**	**0**	**549**	**$112,883**	**$0**	**$0**	**$112,883**
3.8	As needed Hazardous Waste Field Support														
3.8.1	As needed Hazardous Waste Field Support										63	$16,758	$0	$0	$16,758
	Subtotal 3.8 | As needed Hazardous Waste Field Support	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**63**	**$16,758**	**$0**	**$0**	**$16,758**
3.9	Schedule Review and Claims Services														
3.9.1	Baseline Schedule Reviews (1) and Schedule Updates (26)										290	$49,710	$0	$0	$49,710
3.9.2	Claims Support										26	$8,580	$0	$0	$8,580
	Subtotal 3.9 | Schedule Review and Claims Services	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**316**	**$58,290**	**$0**	**$0**	**$58,290**
	TOTAL, hours	**475**	**90**	**39**	**43**	**228**	**37**	**180**	**17**	**100**	**10,637**				
	TOTAL, dollars											**$2,278,217**	**$366,965**	**$41,750**	**$2,686,932**
	OPTIONAL TASKS											**OPTIONAL FEE**			
3.10	Well Drilling Inspections														
3.10.1	Well Drilling Inspections										955	$140,275	$0	$41,160	$181,435
	Subtotal 3.10 | Well Drilling Inspections	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**955**	**$140,275**	**$0**	**$41,160**	**$181,435**
	TOTAL for Optional Tasks, hours	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**955**				
	TOTAL for Optional Tasks, dollars											**$140,275**	**$0**	**$41,160**	**$181,435**
	TOTAL for all Tasks (including Optional Tasks), hours	**475**	**90**	**39**	**43**	**228**	**37**	**180**	**17**	**100**	**11,592**				
	TOTAL for all Tasks (including Optional Tasks), dollars											**$2,418,492**	**$366,965**	**$82,910**	**$2,868,367**

United Water Conservation District
EBB Brackish Water Part 1 Constructability Reviews Services
Estimated Level of Effort and Fee

TASKS		FEE			
No.	Description	Labor	Subs	Direct Costs	Total
	Client Billing Rates				
	CM Client Billing Rates				
1	Part 1 Constructability Review (12/1/2026 to 7/30/2027)				
1.1	Part I, II & III Project Management/Administration (12/2026 to 02/2029)	$53,413	$0	$0	$53,413
1.2	Weekly Virtual Progress Meetings with UWCD Project Manager	$46,668	$0	$0	$46,668
1.3	60% Constructability Reviews	$53,918	$7,935	$0	$61,853
1.4	90% Constructability Reviews	$45,652	$5,750	$0	$51,402
1.5	100% Constructability Reviews	$27,766	$4,600	$0	$32,366
1.6	Constructability Review Workshops (6)	$21,140	$0	$0	$21,140
1.7	Grant Funding Compliance and Funding Coordination	$3,080	$0	$0	$3,080
1.8	Conduct On-Site Project Site Assessments	$23,831	$0	$0	$23,831
1.90	Contractor Prequalification of Well Drillers	$15,706	$0	$0	$15,706
	Subtotal 1 | Part 1 Constructability Review (12/1/2026 to 7/30/2027)	**$291,174**	**$18,285**	**$0**	**$309,459**
2	Part 2 Bid Phase Services (7/30/2027-10/29/2027)				
2.1	Front-End Document Coordination and Support	$8,408	$0	$0	$8,408
2.2	Pre-Bid Meeting	$12,185	$0	$0	$12,185
2.3	Bid Phase Support Services	$32,082	$12,190	$0	$44,272
2.4	Attend Bid Opening	$3,761	$0	$0	$3,761
	Subtotal 2 | Part 2 Bid Phase Services (7/30/2027-10/29/2027)	**$56,436**	**$12,190**	**$0**	**$68,626**
3	Part 3 CM & Inspection Services (10-29-27 to 2-28-2029				
3.1	**Construction Coordination**	**$0**	**$0**	**$0**	**$0**
3.1.1	Contractor Coordination (1 hours per week)	$26,400	$0	$0	$26,400
3.1.2	Environmental Regluatory Compliance (1 hour per week)	$32,900	$0	$0	$32,900
3.1.3	Grant Funding Compliance	$7,800	$0	$0	$7,800
3.2	**Preparation of Key Documents**	**$0**	**$0**	**$0**	**$0**
3.2.1	Construction Management Work Plan	$12,720	$0	$0	$12,720
3.2.2	Hazardous Waste Management Plan	$21,119	$0	$0	$21,119
3.2.3	Project Directory	$480	$0	$0	$480
3.2.4	QA/QC Plan	$3,984	$0	$0	$3,984
3.2.5	Risk Management Plan	$2,400	$0	$0	$2,400
3.2.6	Soil and Groundwater Management Plan	$24,781	$0	$0	$24,781
3.2.7	Storm Water Pollution Prevention Plan	$13,566	$0	$0	$13,566
3.2.8	Traffic Control Plan	$10,272	$0	$0	$10,272
3.3	**Organizing and Conducting Meetings**	**$0**	**$0**	**$0**	**$0**
3.3.1	District Meetings (Weekly) / 82 weekly mtg's	$31,864	$0	$0	$31,864
3.3.2	District Consultant Meetings (KJ, ESA etc.)	$17,064	$0	$0	$17,064
3.3.3	Contractor Meetings (Weekly 1- hour check in)	$34,060	$0	$0	$34,060
3.3.4	Pre Bid Meeting (4-hours)	$8,656	$0	$0	$8,656
3.3.5	Pre-Construction Meeting (2-hour)	$10,116	$0	$0	$10,116
3.4	**Preparation & Management of Construction Documents**	**$377,856**	**$0**	**$20,000**	**$397,856**
3.5	**Construction Coordination**	**$0**	**$0**	**$0**	**$0**
3.5.1	Construction Coordination & Inspections	$1,069,486	$336,490	$21,750	$1,427,726
3.6	**Grant and Loan Compliance**	**$37,152**	**$0**	**$0**	**$37,152**
	Subtotal 3 | Part 3 CM & Inspection Services (10-29-27 to 2-28-2029	**$1,742,676**	**$336,490**	**$41,750**	**$2,120,916**
3.7	**Navy Coordination and Meetings**				
3.7.1	Navy Coordination and Meetings	$112,883	$0	$0	$112,883
	Subtotal 3.7 | Navy Coordination and Meetings	**$112,883**	**$0**	**$0**	**$112,883**
3.8	As needed Hazardous Waste Field Support				
3.8.1	As needed Hazardous Waste Field Support	$16,758	$0	$0	$16,758
	Subtotal 3.8 | As needed Hazardous Waste Field Support	**$16,758**	**$0**	**$0**	**$16,758**
3.9	Schedule Review and Claims Services				
3.9.1	Baseline Schedule Reviews (1) and Schedule Updates (26)	$49,710	$0	$0	$49,710
3.9.2	Claims Support	$8,580	$0	$0	$8,580
	Subtotal 3.9 | Schedule Review and Claims Services	**$58,290**	**$0**	**$0**	**$58,290**
	TOTAL, hours				
	TOTAL, dollars	**$2,278,217**	**$366,965**	**$41,750**	**$2,686,932**
	OPTIONAL TASKS	**OPTIONAL FEE**			
3.10	Well Drilling Inspections				
3.10.1	Well Drilling Inspections	$140,275	$0	$41,160	$181,435
	Subtotal 3.10 | Well Drilling Inspections	**$140,275**	**$0**	**$41,160**	**$181,435**
	TOTAL for Optional Tasks, hours				
	TOTAL for Optional Tasks, dollars	**$140,275**	**$0**	**$41,160**	**$181,435**
	TOTAL for all Tasks (including Optional Tasks), hours				
	TOTAL for all Tasks (including Optional Tasks), dollars	**$2,418,492**	**$366,965**	**$82,910**	**$2,868,367**

EXHIBIT "B" TO AGREEMENT FOR

PROFESSIONAL CONSULTING SERVICES

CONSULTANT shall adhere to the following **Guidelines for Expense Reimbursement**:

Incidental expenditures incurred by CONSULTANT in the course of performing work under this Agreement and submitted for reimbursement by UNITED shall comply with the following guidelines.

Receipts are required for all reimbursable expenses (with an exception for meals and lodging) and shall be furnished with the invoice. Reimbursable expenditures shall not be subject to mark-up. Only actual costs of expenditures within the limits presented below are eligible for reimbursement.

1. Reimbursable Expenditures

A. Travel Expenses

Expenses for airfare or other travel accommodations shall not exceed costs that would reasonably be expected for comparable economy or coach class accommodations.

Personal vehicles may be used when appropriate and mileage will be reimbursed at the standard Internal Revenue Service (IRS) business mileage rate (e.g., 76 cents per mile for calendar year 2026, but for a total cost no greater than the cost that would reasonably be expected for round trip economy or coach class airfare. With the exception of extenuating circumstances (e.g. transport of specialized equipment), mileage for any trip over 500 miles shall be reimbursed at a total cost no greater than would reasonably be expected for round trip economy or coach class airfare. Extenuating circumstances shall be pre-approved by UNITED.

Rental vehicle costs are reimbursable when justified by the nature of the trip. With the exception of extenuating circumstances (e.g. transport of more than 4 people or excessive cargo) the total expense for the rental vehicle shall not exceed a cost that would reasonably be expected for a standard class vehicle. Insurance for rental vehicles is not reimbursable and must be in accordance with all insurance requirements set forth in this Agreement.

B. Lodging

The cost of lodging incurred on approved CONSULTANT business trips is reimbursable. UNITED will reimburse lodging at the standard U.S. General Services Administration (GSA) rate for Ventura County (e.g., $199.00 per night [excluding

taxes] for the months of October 2026 through September 2027). GSA rates are annually updated in October.

C. Meals

The cost of meals incurred on approved CONSULTANT Projects is reimbursable.

If UNITED is reimbursing the CONSULTANT for lodging, UNITED will reimburse for meals at the appropriate standard GSA rate for Ventura County (i.e., $64.50 (or 75% of a daily rate) per day for first and last calendar day of PROJECT work), and $86.00 per day for additional PROJECT workdays for calendar year 2026.

If UNITED is not reimbursing the CONSULTANT for lodging, UNITED will not reimburse the CONSULTANT for meals.

D. Equipment

All reimbursable equipment must be purchased or rented at a reasonable cost, in accordance with industry standards.

E. Expendable Items

Items that are expendable (depleted) will not be returned to UNITED, as the items will be "used up" in the course of CONSULTANT's work.

F. Non-Expendable Items

Items that are non-expendable (not depleted) will be returned to UNITED upon completion of CONSULTANT's work.

EXHIBIT "C" TO AGREEMENT FOR

PROFESSIONAL CONSULTING SERVICES

CONSULTANT shall procure and maintain for the duration of the Agreement, and for injuries that occur and claims which are made after the services herein are performed, insurance against claims or injuries to persons or damages to property, which may arise from or in connection with the performance of the work hereunder by CONSULTANT, its agents, representatives, or employees.

Minimum Scope of Insurance

Coverage shall be at least as broad as:

1. Insurance Services Office Commercial General Liability coverage (occurrence Form CG 00 01 or its equivalent).

2. Insurance Services Office Form Number CA 00 01 covering Automobile Liability, Code 1 or its equivalent (any auto).

3. Workers' Compensation insurance as required by the State of California and Employer's Liability Insurance.

4. Errors & Omissions Liability insurance appropriate to the CONSULTANT's profession. Architects' and engineers' coverage is to be endorsed to include contractual liability.

5. Valuable Document Insurance on all plans, specifications and other documents as may be required to protect UNITED in the amount of its full equity in such plans, specifications and other documents.

Minimum Limits of Insurance

CONSULTANT shall maintain limits no less than:

1.	General Liability: Including operations, products and completed operations, as applicable.	**$2,000,000** per occurrence for bodily injury, personal injury and property damage. If Commercial General Liability Insurance or other form with a general aggregate limit is used, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be twice the required occurrence limit.
2.	Automobile Liability:	**$2,000,000** per accident for bodily injury and property damage.

3.	Employer's Liability:	**$2,000,000** per accident for bodily injury or disease.
4.	Errors & Omissions Liability:	**$2,000,000** per claim.
5.	Valuable Document Insurance	**Full Equity of all Documents**

Deductibles and Self-Insured Retentions

Any deductibles or self-insured retentions must be declared to and approved by UNITED. At the option of UNITED, either: the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects UNITED, its directors, officers, officials, employees and agents; or CONSULTANT shall provide a financial guarantee satisfactory to UNITED guaranteeing payment of losses and related investigations, claim administration and defense expenses.

Other Insurance Provisions

The commercial general liability and automobile liability policies are to contain, or be endorsed to contain, the following provisions:

6. For all policies required by this Agreement, UNITED and its directors, officers, officials, employees and volunteers are to be covered as additional named insureds as respects: liability arising out of work or operations performed by or on behalf of the CONSULTANT; or automobiles owned, leased, hired or borrowed by the CONSULTANT.

7. For any claims related to this Project, the CONSULTANT's insurance coverage shall be primary insurance as respects UNITED and its directors, officers, officials, employees and agents. Any insurance or self-insurance maintained by UNITED, its directors, officers, officials, employees or agents shall be excess of the CONSULTANT's insurance and shall not contribute with it.

8. Each insurance policy required by this clause shall be endorsed to state that coverage shall not be canceled by either party, except after thirty (30) days prior written notice has been provided to UNITED (with the exception of ten (10) days for nonpayment of premium).

If General Liability, Contractors Pollution Liability and/or Asbestos Pollution Liability and/or Errors & Omissions coverages are written on a claims-made form:

9. The retroactive date must be shown, and must be before the date of the contract or the beginning of contract work.

10. Insurance must be maintained and evidence of insurance must be provided for at least five (5) years after completion of the contract of work.

11. If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a retroactive date prior to the contract effective date, the CONSULTANT must purchase an extended period coverage for a minimum of five (5) years after completion of contract work.

12. A copy of the claims reporting requirements must be submitted to UNITED for review.

13. If the services involve lead-based paint or asbestos identification/ remediation, the Contractors Pollution Liability shall not contain lead-based paint or asbestos exclusions. If the services involve mold identification/ remediation, the Contractors Pollution Liability shall not contain a mold exclusion and the definition of "Pollution" shall include microbial matter including mold.

Acceptability of Insurers

Insurance is to be placed with insurers qualified to do business in the State of California with a current A.M. Best's rating of no less than A: VII, unless otherwise acceptable to UNITED. Exception may be made for the State Compensation Insurance Fund when not specifically rated.

Verification of Coverage

CONSULTANT shall furnish UNITED with original certificates and amendatory/ additional insured endorsements effecting coverage required by this clause. The endorsements should be on forms provided by UNITED or on other than UNITED's forms provided those endorsements conform to UNITED requirements. All certificates and endorsements are to be received and approved by UNITED before work commences. However, failure to do so shall not operate as a waiver of these insurance requirements. UNITED reserves the right to require complete, certified copies of all required insurance policies, including endorsements effecting the coverage required by these specifications at any time.

Waiver of Subrogation

CONSULTANT hereby agrees to waive subrogation, which any insurer of contractor may acquire from vendor by virtue of the payment of any loss. CONSULTANT agrees to obtain any endorsement that may be necessary to effect this waiver of subrogation.

The Workers' Compensation policy shall be endorsed with a waiver of subrogation in favor of the entity for all work performed by the CONSULTANT, its employees, agents and subcontractors.

United Water CONSERVATION DISTRICT

STAFF REPORT

To: **Engineering and Operations Committee Members**

Through: Mauricio Guardado, General Manager
Dr. Maryam Bral, Assistant General Manager

From: Robert Richardson, Engineering Manager

Date: **October 29, 2026 (November 5, 2026, meeting)**

Agenda Item: **4.1 Engineering Department Monthly Report**
Information item

Staff Recommendation:
Receive this summary report from the Engineering Department regarding its activities for the period of September 21 through October 23, 2026, as well as a presentation of highlights. Please refer to the end of the report for a list of acronyms.

Discussion:

Santa Felicia Dam

- **Rancho Temescal Property Acquisition:**
  - September 24 - Staff completed the User Questionnaire for the Phase I ESA for the Rancho Temescal Property Acquisition and sent it to Rincon.
  - October 6 - A PCSA with ECG was fully executed for the Rancho Temescal Property Acquisition Quitclaim Deed Legal Description and Piru Diversion Easement Legal Description Mapping work in the not-to-exceed amount of $11,500.
  - October 13 - Staff coordinated review of the Grant Deed associated with the Rancho Temescal Property Acquisition with Legal Counsel.
  - October 13 - The General Manager executed the Seller Disclosure Package for the Rancho Temescal Property Acquisition.
  - October 16 - Staff completed review of the Phase 1 ESA Report from Rincon for the Rancho Temescal Property Acquisition and completed research on findings of the Phase 1 ESA Report.
  - October 21 - Staff coordinated the final wire transfer for the Rancho Temescal Property Acquisition in the amount of $7,284,847, including the purchase price balance and title and escrow charges.
  - October 21 - The General Manager executed the Escrow Instructions Package, Tax Cancellation Request Forms, and Contingency Removal Form for the Rancho Temescal Property Acquisition.

- October 21 - The GM executed the Certificate of Acceptance of Grant Deed and the Certificate of Acceptance of Quitclaim Deed associated with the Rancho Temescal Property Acquisition.
- October 23 - Escrow closed for the Rancho Temescal Property Acquisition. Deeds were recorded with the County of Ventura by Lawyers Title.

- **Regulatory Compliance:**
  - September 28 - Staff received FERC comments on the 2025 New Release Channel Geotechnical Investigation Report. Comments were minor, including a request for an Engineer/Geologist who worked on the project to professionally stamp the report.
  - October 8 - Staff e-filed with FERC the revised 2026 Drilling Program Plan addressing initial FERC Comments. Drilling is anticipated to begin on November 12.
  - October 8 - Staff e-filed with FERC the plan and schedule to address action items requested by FERC in the 2026 FERC Inspection Follow-Up Letter.
  - October 8 - Staff began drafting the 2026 SFD DSSMR and EAP Status Reports.
  - October 14 - Staff e-filed the final BOC Meeting No.12 Report and updated the BOC Comment Tracking Spreadsheet with FERC.
  - October 15 - Staff conducted the Annual SFD Law Enforcement/Public Safety Consultation Meeting at SFD. (See **Figure 1**).
  - October 22 - The Annual EAP Seminar was conducted. Numerous external participants were in attendance, including Piru Neighborhood Council, Ventura County Watershed Protection District, Ventura County Fire Department, City of Fillmore Public Works, CA Department of Water Resources, Calleguas Municipal Water District, Cal OES, California Air National Guard, Oxnard Fire Department, and the National Weather Service. (See **Figure 2**).
- **General:**
  - October 8 - Staff completed data entry and preliminary engineering review of the SFD September Monthly Inspection and Phreatic Water AutoCAD plots.
  - October 21 - Staff received a proposal from HDR for inspection of the SFD Spillway Underdrain that is performed on a routine basis.

Safety Improvement Project

- **Outlet Works Improvement Project:**
  - October 13 - A field visit with GEI, Cascade Drilling, and O&M was held to plan for and conduct the layout for the 2026 Drilling Program Plan.
  - October 14 - Staff scheduled BOC Meeting No.13 for April 14-15, 2027, to review final bid documents for the SFD OW project.
  - October 23 - Grading, clearing and grubbing work, and associated environmental surveys were completed at SFD in preparation for the 2026 Drilling Program Plan. Drilling is set to begin on November 12.
  - Staff held multiple Front-End Specifications Workshops with GEI and B&V.
  - ***See Funding Efforts***

- *Please see the Monthly Environmental Services Department Report for updates on the Project's environmental compliance and permitting process.*

Lake Piru Debris Clean-Up

- October 9 - Staff drafted Change Order No. 2 to the Purchase Order - Construction Work with Quality Ag for the 2026 Lake Piru Debris Removal Project that includes removal of woody debris at Lake Piru Marina and the upstream face of SFD.
- October 23 - Task Order No. 3 under the OCSA with Filippin Engineering was executed. The scope of work includes construction observation and documentation for the third phase of the 2026 Lake Piru Debris Removal Project work performed by Quality Ag.

Lake Piru Recreation Area FIP

- **LOG Restroom Repair:**
  - October 19 - Staff met with Gordian and their ezIQC contractor to discuss a proposal for replacement of the floor coating system at the LOG restroom.

- **Water Treatment Plant Upgrades:**
  - October 14 - Amendment No.1 to PCSA with Stantec for LPWTP Improvement Project was executed for $45,965. The additional work includes conducting barge pump performance testing, electrical load capacity analysis, development of electrical drawings, and additional improvements identified during the preliminary design.
  - October 20 - Engineering Staff coordinated with O&M to complete the summer baseline water quality sampling for the LPWTP.

Freeman Diversion Expansion

- October 23 - Staff received the updated 60% design deliverables from GEI. The 90% design documents are currently underway.

Freeman Conveyance System Upgrade - Freeman to Ferro

- **Vineyard Avenue Crossing:**
  - October 9 - Staff issued Notice to Proceed 1 to Sam Hill and Sons for the Vineyard Ave Project.
  - October 9 - Staff met Kris Gean (Harry's Berries) in the field to discuss the Vineyard Ave Crossing project. Open communication was established between the District Project Manager and Kris Gean to keep Harry's Berries informed of the project schedule.

El Rio Wellfield

- **Well 14:**
  - September 28 - Staff documented the recent installation of a discharge inspection port along the Well 14 discharge pipeline.

Iron and Manganese Treatment Facility

- September 24 - Staff began updating the P&ID for the El Rio water treatment plant, including the Fe/Mn Treatment Plant.
- October 20 - Staff conducted a Fe/Mn Treatment Plant site visit with RoviSys, which is assisting the District with programming improvements. RoviSys implemented the ability to remotely open/close the pressure relief station and assisted with troubleshooting other plant startup issues.

OH Pipeline

- September 22 - Staff observed backflow prevention assembly installation at El Rio MLM. Staff noted above-ground appurtenances and added them to the asset registry.
- September 28 - Staff met with Sanbell regarding the Rio Real School service from the OH Pipeline. The District requested water demand information on the proposed expansion project.
- October 14 - Staff attended the VAAMWC Consolidation Meeting hosted by RCAC. The County of Ventura intends to own and operate the new system through its CSA 34 and will be engaging LAFCO to include water service. The County of Ventura is considering a connection to the Ventura-Calleguas interconnection as an additional supply for the project.
- October 15 - A will-serve letter was issued to the Rio School District Board of Trustees via Joel Kirschenstein (Sage Realty Group).
- October 21 - Staff attended the RIOSD Board Meeting. The RIOSD Board President read the will-serve letter aloud and Staff assured the Board there was adequate capacity in the OH Pipeline system to meet required fire flows and is committed to working with Sanbell.

Recycled Water

- September 30 - Staff held a Recycled Water Coordination Meeting with the City of Oxnard and discussed the status of AWPF operations and proposed short-term flow testing through the Laguna Road Interconnection Pipeline.

LOSSAN-Leesdale Siding Extension Project

- September 28 - Staff sent an RFI to LOSSAN requesting a geotech report, topographic survey, drawings, and project schedule for the LOSSAN-Leesdale Siding Extension Project.
- October 1 - Staff received an updated Geotechnical Report link from Zephyr Rail for the LOSSAN-Leesdale Siding Extension Project that will support preparation of design documents related to PTP undercrossing reinforcement.
- October 12 - Task Order No. 1 with K/J for PTP undercrossing reinforcement related to the LOSSAN-Leesdale Siding Extension Project was executed in the not-to-exceed amount of $50,000.
- October 22 - Staff met with KJ to kick off the LOSSAN casing extension project in the same area as the Rice Ave Overpass. The meeting resulted in several information requests for UWCD and established December 7 as the deliverable date for a draft design for United’s review.

PTP Turnout Metering

- September 21 - Staff submitted DWR AgWUE Grant Invoices #21, #22, and #23 to DWR.
- September 29 - Staff received a proposal from NDI for Metering System Modernization & Communications Assessment over a 12-month period.
- October 5 - Staff submitted DWR WUE Invoice/Progress Report #24 to DWR.
- October 16 - Staff submitted a letter to DWR requesting a 12-month time extension for the AgWUE grant (Amendment No. 8).

Extraction Barrier and Brackish Water Treatment Project

- **Meetings:**
  - September 29 - Staff conducted a UWCD/Navy Monthly Drumbeat Meeting. Discussion topics included potholing waste profiling, temporary piezometer well installation, a surface geophysics proposal, soil resistivity testing, Phase 1A SAR extension, Phase 1B outgrant easement status and legal description/plat, Phase 1 MOA renewal, and other items.
  - September 30 - Staff met with NBVC staff to discuss an electric service MOA. A draft letter of request was submitted to NBVC staff on October 17.
  - October 22 - Staff conducted a UWCD/Navy Monthly Drumbeat Meeting. Discussion topics included DBIDS, potholing liquids waste analytical results, temporary piezometer well installation, 60% design pipeline alignment review, soil resistivity testing, geophysics proposal, Phase 1A SAR extension, Phase 1B fifty-year outgrant easement, 60% design workshop (January 2027), Phase 1 MOA renewal, electric service MOA, and NEPA/Federal consultation status.
- **Design:**
  - September 25 - Staff received a dig permit time extension to October 30 by NBVC for temporary piezometer well installation.
  - October 15 - Staff conducted on-site utility locating for piezometer drilling with Spearhead.
  - October 20 - Earth Systems and 2R Drilling completed all ten (10) temporary piezometer wells located approximately along the Phase 1 EBB WTP pipeline alignment. The purpose of the temporary piezometer wells is to provide information to estimate dewatering requirements for construction of the Phase 1 project.
  - October 20 - An on-site pipeline alignment site walk with K/J was conducted. Staff and K/J reviewed utility crossings and determined appropriate locations for blow-offs, air-vacs, isolation valves, and access manholes.
- **Construction Management Inspection Services:**
  - October 6 - Interviewed two consultants who submitted proposals in response to the RFQ/P for EBB WTP Phase 1 Construction Management and Inspection Services.
  - October 8 – Interviewed two consultants who submitted proposals in response to the RFQ/P for EBB WTP Phase 1 Construction Management and Inspection Services. The proposal evaluation review panel unanimously voted in favor of HDR Engineering, Inc. as the selected EBB

WTP Phase 1 Construction Management and Inspection Services consultant.
  - October 12 - Staff held an EBB Phase 1 CM and IS scoping meeting with HDR Engineering, WR, and ESD Staff.
- ***See Funding Efforts***

Utility Requests

- Throughout September and October, staff continued to respond to various Utility Requests for work that potentially impacts the PTP, PV, and the OH Pipelines:
  - **Costco - City of Camarillo:**
    - September 28 - Staff coordinated with Kimberly Horn (Costco's design engineer) and requested the contractor to stop work to ensure adherence to the Engineer-issued detail.
    - September 30 - Staff reviewed and provided feedback to the Engineer of Record on a revised MH detail for retrofitting the existing PV Pipeline Access hatch near Overland Road with a shaft and cover.
    - October 9 - Staff provided field corrections to the Costco owner's representative consistent with the Engineer-issued detail to preserve United's future maintenance activities. Staff provided field observation as owner's representative.
    - October 13 - Staff observed MH shaft installation at Costco site. (See **Figure 3**).

State Water Interconnection Project

- No updates to provide.

Asset Management/CMMS System

- October 6 - Staff coordinated field activities with HDR and the City of Oxnard to complete measurements along a portion of the OH Pipeline to evaluate the effectiveness of the current cathodic protection system. (See **Figure 4**).
- October 22 - Staff provided a preliminary mockup and entity relationship diagram for an internally developed CMMS to the IT team.

HQ Roof Replacement

- October 2 - Staff reviewed and approved the revised Rite-Way Roof submittal for District HQ roof replacement.

Funding Efforts

- **SFD:**
  - FEMA BRIC Program - SFD OW
    - September 21 - Staff worked on draft FEMA BRIC application materials.

- DWR Dam Safety & Climate Resilience (DSCR) Program - SFD OW
  - September 30 - Staff prepared and submitted a grant opportunity analysis for the Proposition 4 DWR Watershed Resilience Grant Program for Leadership Team review.
  - October 8 - Staff participated in a project funding coordination meeting with Foley and CalStrat to advance DSCR grant planning activities.
- Department of Defense IRT Program - SFD Tender Residence Storm Drainage Improvement Project
  - On September 29, Staff submitted the FY27 Department of Defense IRT application and the FY28 Department of Defense IRT application on September 30.

- **Extraction Barrier and Brackish Water Treatment Project:**
  - OLDCC DCIP - EBB Phase 1
    - September 22 - Staff received notification that the District's FY26 DCIP grant application for the Phase 1 EBB WTP project was not selected for funding.
- **LPRA Improvements:**
  - CDFW Boating Access Grant Program - Lake Piru Marina Bathroom Rebuild
    - October 20 - Staff met with CDFW to review previous application results and obtain recommendations for improving future proposal competitiveness. The key outcome was that a lower-cost project focused more specifically on access could be more competitive. CDFW also indicated that construction-ready projects may receive a higher weighting.
    - October 21 - Staff attended the CDFW Boating Access Grant Program webinar and reviewed environmental compliance requirements, including CEQA and NEPA considerations.
    - October 21 - Staff conducted an internal kickoff meeting to review proposal schedule, templates, and application requirements for the selected Lake Piru project.
- **SCADA:**
  - CalOES SLCGP - SCADA Upgrades
    - September 22 - Staff attended an SLCGP Check-In Meeting and is preparing a reimbursement request.

Other Departmental Efforts

- **Multi-Jurisdictional Hazard Mitigation Plan:**
  - October 5 - Staff RSVP'd for UWCD to participate in the Ventura County MJHMP Community Open House on November 18. Engineering and Public Outreach will run a booth at this event.
  - October 20 - Staff submitted the UWCD jurisdictional annex for MJHMP.
- **Artesian Wells:**
  - October 5 - Staff held a meeting with FCGMA to debrief on Artesian Well observations. Several wells leaking at high discharge rates are within the

City of Oxnard and the County of Ventura. Both agencies have ordinances for leaking artesian wells.

Professional Development (Conferences, Trainings, Webinars)

- September 23 - Staff attended the Calleguas MWD Special Board of Directors' Meeting. The meeting included presentations of the 2026 Strategic Plan update; potential evaluation of a new capital construction charge; and smartball inspection of Lindero Feeder.
- September 30 - Staff conducted a Site Tour of the Piru Spreading Grounds and the SFD Outlet Works with the General Manager.
- October 1 - Staff attended the RDP Regular Meeting - "The Maritime Advanced Technology Accelerator Consortium (MATAC)".
- October 13 - Staff attended the “Precision Blasting Near Dams: Engineering Safety Into Every Shot 2026” Webinar hosted by ASDSO.
- October 15 - Engineering staff set up and crewed four (4) booths (Engineering Department, SFD SIP, Freeman Diversion Denil Improvement, and EBB WTP) at UWCD’s Open House Event. (See **Figure 5**).
- October 21 - The Engineering Manager and AGM attended two sessions at the 2026 CALAFCO Conference in Sacramento: "Beyond Growth: What's Next for LAFCO?" and "Housing, Agriculture & Infrastructure". Dr. Maryam Bral presented and participated in the panel discussions for the second session. (See **Figure 6**).
- October 21 - Staff attended the October Piru Neighborhood Council Meeting to support a Public Outreach presentation on Measure D. (See **Figure 7**).
- October 23 - Staff participated in an NBVC Officer's (Public Works) Tour of UWCD facilities (El Rio WTP, Freeman Diversion, and SFD).



Figure 1 *- October 15 - Staff conducting the Annual SFD Law Enforcement/Public Safety Consultation Meeting at SFD.*



Figure 2 *- October 22 - Adrian Quiroz presenting at the 2026 Annual EAP Seminar.*



Figure 3 *- October 13 - Nathan Summerville observing the MH shaft installation at the Costco site.*



Figure 4 *- October 6 - Staff coordinated field activities with HDR and the City of Oxnard to complete measurements along a portion of the OH Pipeline to evaluate the effectiveness of the current cathodic protection system.*



Figure 5 *- October 15 - Adrian Quiroz presenting updated inundation maps at the UWCD 2026 Open House.*



Figure 6 - October 21 - Dr. Maryam Bral presenting at the 2026 CALAFCO Conference in Sacramento, CA.



Figure 7 *- October 21 - Adrian Quiroz and Tara Mulally presenting on Measure D to the Piru Neighborhood Council.*

Acronym Index

Acronym	Definition
AGM	Assistant General Manager
AgWUE	Agricultural Water Use Efficiency
ASDSO	Association of State Dam Safety Officials
AWPF	Advanced Water Purification Facility
B&V	Black & Veatch
BOC	Board of Consultants
BRIC	Building Resilient Infrastructure and Communities
Cal OES	California Governor's Office of Emergency Services
CALAFCO	California Association of Local Agency Formation Commissions
CalStrat	California Strategies; listed as “Cal Strat”
CDFW	California Department of Fish and Wildlife
CEQA	California Environmental Quality Act
CM	Construction Manager
CMMS	Computerized Maintenance Management System
CSA	County Service Area
DBIDs	Defense Biometric Identification System
DCIP	Defense Community Infrastructure Program
DSCR	Dam Safety and Climate Resilience
DSSMR	Dam Safety Surveillance and Monitoring Report
DWR	California Department of Water Resources
EAP	Emergency Action Plan
EBB	Extraction Barrier and Brackish
ECG	Encompass Consulting Group Inc.
ESA	Environmental Site Assessment
ESD	Environmental Services Department
FCGMA	Fox Canyon Groundwater Management Agency
Fe/Mn	Iron and Manganese
FEMA	Federal Emergency Management Agency
FERC	Federal Regulatory Commission
FIP	Facility Improvement Project
FY	Fiscal Year
GEI	GEI Consultants
GM	General Manager
HDR	HDR Consultants, Inc.
HQ	Headquarters
IRT	Innovative Readiness Training Program
IS	Inspection Services
IT	Information Technology

Acronym	Definition
K/J	Kennedy Jenks Consultants
LAFCo	Ventura Local Agency Formation Commission
LOG	Lower Olive Grove
LOSSAN	Los Angeles – San Diego – San Luis Obispo
LP	Lake Piru
LPRA	Lake Piru Recreation Area
LPWTP	Lake Piru Water Treatment Plant
MATAC	Maritime Advanced Technology Accelerator Consortium
MH	Manhole
MJHMP	Multi-Jurisdictional Hazard Mitigation Plan
MLM	Main Line Meter
MOA	Memorandum of Agreement
MWD	Municipal Water District
NBVC	Naval Base Ventura County
NDI	NDI Consultants, Inc.
NEPA	National Environmental Policy Act
O&M	Operations and Maintenance
OCSA	On-Call Services Agreement
OH	Oxnard Hueneme
OLDCC	Office of Local Defense and Community Cooperation
OW	Outlet Works
P&ID	Piping and Instrumentation Diagram
PCSA	Professional Consulting Services Agreement
PTP	Pumping Trough Pipeline
PV	Pleasant Valley
RCAC	Rural Community Assistance Corp
RDP	Regional Defense Partnership
RFI	Request for Information
RFQ/P	Request for Qualifications/Proposals
RIOSD	Rio School District
RoviSys	The RoviSys Company
SAR	Site Access Request
SCADA	Supervisory Control and Data Acquisition
SFD	Santa Felicia Dam
SIP	Safety Improvement Plan
SLCGP	State and Local Cybersecurity Grant Program
TM	Technical Memorandum
VAAMWC	Vineyard Avenue Acres Mutual Water Company
WR	Water Resources

4.1 Engineering Department Monthly Report
Information Item

Acronym	Definition
WTP	Water Treatment Plant/Project
WUE	Water Use Efficiency

United Water CONSERVATION DISTRICT

STAFF REPORT

To: **Engineering and Operations Committee Members**

Through: Mauricio Guardado, General Manager
Dr. Maryam Bral, Assistant General Manager

From: Craig Morgan, Chief Operations Officer
Randy Castañeda, Operations Supervisor - Water Treatment
J.D. Smallwood, Operations Supervisor - Water Distribution

Date: **October 28, 2026 (November 5, 2026, meeting)**

Agenda Item: **4.2 Operations and Maintenance Department Monthly Report**
Information item

Staff Recommendation:
Receive this summary report from the Operations and Maintenance Department regarding its activities for September-October 2026, as well as a presentation of its highlights.

1. **Major Facilities Update**
   - **Santa Felicia Dam**
     - On September 17, 2026, Lake Piru level was 1042.40'. As of October 21, 2026, Lake Piru level had dropped to 1019.00' due to the annual Conservation Release and preparation for the upcoming wet season.
     - Santa Felicia Dam (SFD) outflows ranged from 402 CFS to 110 CFS between September 17 and October 21, 2026, as releases continued to be adjusted throughout the ongoing annual Conservation Release in accordance with operational requirements.
     - Santa Felicia Dam's monthly inspection for September was completed and submitted to the Engineering Department for review. The October monthly inspection is currently ongoing.
     - Saticoy staff along with SFD and Engineering staff assisted with the construction of work pads using heavy equipment in preparation for an upcoming drilling project related to the SFD Outlet Works Improvement project. This work supports the planning and construction of the new outlet works at Santa Felicia Dam.
     - The monthly siren test was successfully conducted on October 2, 2026, to verify proper operation of the emergency notification system.

- **Freeman Diversion, Saticoy, and El Rio Recharge Facilities**
  - Various maintenance activities and inspections were conducted throughout the Saticoy Facility, ensuring reliable water diversions.
  - Various sediment flushes were conducted at the Freeman Diversion in response to increased river flows associated with the annual Conservation Release.
  - Staff performed routine screen bay maintenance between sediment flush operations to ensure continued functionality and reliable system performance.
  - Saticoy staff completed the painting of the Saticoy Well Field to protect equipment and infrastructure, extend service life, and improve overall site appearance.
  - Saticoy staff completed preparation for the upcoming Desilting Project to ensure the work proceeds safely and efficiently. This included servicing equipment, grading access roads, notifying neighboring property owners, installing safety signage, coordinating staff schedules, and arranging necessary equipment rentals.
  - Saticoy staff, in coordination with the Control Systems team, conducted a test to evaluate the transportation and setup time of the emergency generator from the Saticoy Facility to District Headquarters. This exercise supports storm season preparedness by improving response planning and ensuring emergency equipment can be deployed efficiently when needed.
  - Saticoy staff utilized heavy equipment to place fresh base material and improve road conditions throughout the Saticoy Facility. Staff also assisted the El Rio Facility with similar work to maintain reliable access to various areas, improve road surfaces, and provide smoother travel for District personnel and equipment.
  - Static groundwater levels (distance to water - from the well pad to the water table):

Facility	2026*	2025	2024	2023
Saticoy	16’	73’	30’	14’
El Rio	42’	76’	63’	77’
PTP	65’- 104’	73’ - 113’	67’ – 113’	78’ - 106’

* *Static groundwater levels are typically recorded in the last week of the month. This table represents data in the month of August.*

- **Oxnard Hueneme Delivery System**
  - El Rio operators exposed, drained and opened the OH Well 14 discharge line near OH Well 11 to perform a video inspection of the pipeline’s interior.
  - El Rio operators changed out empty CL2 ton cylinders and received delivery of CL2 refill tanks.
  - El Rio operators made repairs to the leaking 2” air vac valve on the OH Well 12 discharge manifold.

- El Rio operators replaced a defective air vac valve on Fe/Mn Plant Filter 1.
- El Rio operators swapped out pumps that return water to the pre-CL2 analyzing station.
- El Rio operators installed and tested a new backflow device at the OH main line meter site.

- **Pleasant Valley County Water District**
  - Demand was met primarily with surface water from the Freeman Diversion.
  - El Rio operators accepted delivery of NaOCl at the Saticoy Moss Screen site and adjusted the chemical feed pump.

- **Pumping Trough Pipeline**
  - UWCD staff ran the PTP Well 2 to test the pump assembly after the rehab work was completed.
  - El Ro operators applied sealant on aging PTP turnout risers to prevent leaks from forming on existing coatings.

- **Control Systems**
  - Noble Gate Control was restored.
  - Old OH Well 14 VFD has been removed.
  - Completed UPS Install in Saticoy Datacenter Container.
  - Server Rack Installed in Saticoy Datacenter Container.

- **Lake Piru Water Treatment Plant**
  - All the chlorine residuals and turbidity readings for the Lake Piru Water Treatment Plant (LPWTP) were within proper ranges through September and October.
  - Monthly pH, turbidity, and coliform samples were obtained from the treatment plant as part of the Long-Term 2 Enhanced Surface Water Treatment Rule compliance monitoring. The results were favorable, with another passing grade.
  - Saticoy and SFD O&M staff performed various hose replacements on the pump barge to maintain equipment reliability and ensure continued operational readiness.

2. Operations and Maintenance Treatment Compliance Projects Update

- Completed various UWCD surface water and pipeline usage reports.
- Performed monthly inspections of the OH Clear Wells.
- Completed and emailed the monthly OH SWTR report to DDW.
- Participated in a virtual meeting with DDW regarding details of their recent tri-annual sanitary survey of the El Rio treatment facility.
- Completed the monthly SWRCB Drought Tolerance report related to the OH operations.

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3. Safety and Training

- Went through the quarterly, in-house SCBA training at El Rio site.
- Attended the annual fire extinguisher training at the Saticoy facility.
- El Rio operators performed the monthly testing and calibrations for Cl2/NH3/natural gas leak detectors.

Attachment:
Operation Log for September 2026

ATTACHMENT

OPERATIONS LOG v 10/7/21

DATE	SANTA FELICIA DAM								FREEMAN DIVERSION**					RECHARGE					IRRIGATION						O-H	
	SFD El.	Stor.	Surface	Evap.	Inflow Balance	Outflow USGS	Hydro	Rain 106E	River	Diverted	Fish*** Facility	Bypass Channel	Crest	El Rio	Saticoy Facility		Noble/ Rose	Piru	T.I.D.	P.T.P.	PVCWD		L.P.	Saticoy Wells	Total	Cl2
	Ft.	A/F	Acres	Inches	Av. CFS	Av. CFS	Kw	Inches	Av. CFS	Av. CFS	Av. CFS	Av. CFS	Av. CFS	Av. CFS	Misc CFS†	Weir CFS	Av. CFS	Av. CFS	A/F	A/F	A/F	%	A/F	A/F	A/F	Lbs.
A/F*		72888			120,483	72,393		26.52	340,557	94,617	30,711	41,647		38,022		45,224.37	10,670	0.0	11,970	4,350	8,018		0.0	600	9,173	85,610
9/1/26	1048.59	72,934	1155	0.354	65	33	0	0.00	40	29	10.9	0	0	0.02	8	0	0	0.0	42.6	14.4	28.2	0.49	0.0	0.0	29.8	282
9/2/26	1048.39	72703	1154	0.288	22	132	0	0.00	36	25	10.8	0	0	0.01	7	0	0	0.0	45.3	18.9	26.4	0.53	0.0	8.9	32.5	371
9/3/26	1048.17	72449	1152	0.270	29	151	0	0.00	46	35	10.9	0	0	10.14	2	0	0	0.0	58.8	12.9	45.9	0.67	0.0	14.5	30.8	355
9/4/26	1047.95	72196	1150	0.259	29	151	0	0.00	58	47	10.8	0	0	13.95	-6	8.3	0	0.0	69.3	17.5	51.8	0.56	0.0	8.2	34.0	320
9/5/26	1047.76	71977	1148	0.257	47	151	0	0.00	65	54	10.6	0	0	13.9	4	0	0	0.0	71.1	15.1	56.0	0.52	0.0	0.0	31.5	254
9/6/26	1047.56	71748	1147	0.251	41	151	0	0.00	88	77	11	0	0.1	33.47	-22	32.04	4.89	0.0	65.7	14.9	50.8	0.33	0.0	0.0	23.8	170
9/7/26	1047.41	71576	1145	0.199	69	151	0	0.39	97	86	10.9	0	0	65.35	-3	15.79	0	0.0	16.2	15.8	0.4	0.00	0.0	0.0	28.9	222
9/8/26	1047.22	71358	1144	0.200	186	291	0	0.00	97	86	11	0	0	54.38	1	9.74	0	0.0	41.7	12.1	29.6	0.17	0.0	0.0	28.8	195
9/9/26	1046.71	70775	1140	0.098	59	351	0	0.01	165	154	10.9	0	0	70.27	1	63.51	36.65	0.0	38.2	6.5	31.7	0.10	0.0	0.0	34.0	331
9/10/26	1046.16	70149	1135	0.130	38	351	0	0.00	193	182	11	0	0	77.82	-15	85.7	0	0.0	65.5	22.6	42.9	0.12	0.0	0.0	32.0	330
9/11/26	1045.65	69571	1131	0.216	65	352	0	0.00	197	151	9.5	36.1	0.5	61.7	-20	86.19	0	0.0	47.1	12.8	34.3	0.11	0.0	0.0	34.8	292
9/12/26	1045.11	68961	1127	0.296	49	350	0	0.00	202	191	11.6	0	0	61.7	5	94.71	0	0.0	57.6	13.8	43.8	0.12	0.0	0.0	32.4	265
9/13/26	1044.58	68364	1123	0.232	53	349	0	0.00	213	201	11.6	0	0	93.37	-1	105.18	0	0.0	6.7	6.1	0.6	0.00	0.0	0.0	28.9	220
9/14/26	1044.03	67747	1118	0.260	44	349	0	0.00	222	210	11.6	0	0	79.76	-11	116.08	0	0.0	50.0	14.7	35.3	0.08	0.0	0.0	33.7	261
9/15/26	1043.48	67133	1114	0.226	44	349	0	0.00	217	206	11.6	0	0	71.24	-12	111.4	0	0.0	68.5	15.4	53.1	0.13	0.0	0.0	31.5	321
9/16/26	1042.96	66554	1110	0.196	61	349	0	0.00	218	206	11.6	0	0	83.95	-9	111.31	0	0.0	38.7	5.6	33.1	0.08	0.0	0.0	29.7	361
9/17/26	1042.34	65867	1104	0.230	28	370	0	0.00	246	212	10.4	24	0	80.62	-5	110.79	0	0.0	49.7	26.0	23.7	0.06	0.0	0.0	31.9	353
9/18/26	1041.79	65261	1100	0.200	85	386	0	0.00	264	252	11.5	0	0	74.83	18	127.01	0	0.0	64.0	23.6	40.4	0.08	0.0	0.0	35.1	305
9/19/26	1041.01	64405	1093	0.197	-45	383	0	0.00	271	260	11.5	0	0	81.65	19	133.26	0	0.0	50.9	13.8	37.1	0.07	0.0	0.0	31.6	267
9/20/26	1040.60	63958	1089	0.190	162	383	0	0.00	284	273	11.5	0	0	89.03	23	142.77	0	0.0	36.6	16.0	20.6	0.04	0.0	0.0	29.1	195
9/21/26	1039.88	63175	1083	0.188	10	401	0	0.00	295	275	19.4	0	0	86.59	22	145.98	0	0.0	41.6	13.1	28.5	0.05	0.0	0.0	35.8	285
9/22/26	1039.30	62548	1078	0.162	90	403	0	0.00	293	279	13.9	0	0	81.92	20	149.05	0	0.0	56.5	12.0	44.5	0.08	0.0	0.0	32.1	318
9/23/26	1038.66	61860	1073	0.206	55	398	0	0.00	288	277	11.7	0	0	87.71	15	150.12	0	0.0	46.6	13.8	32.8	0.06	0.0	0.0	33.5	375
9/24/26	1038.02	61174	1068	0.196	57	399	0	0.00	294	283	11.3	0	0	85.07	21	151.99	0	0.0	49.3	6.1	43.2	0.08	0.0	0.0	35.2	387
9/25/26	1037.37	60481	1063	0.214	53	398	0	0.00	295	283	11.3	0	0	81.81	21	152.9	0	0.0	55.6	31.8	23.8	0.04	0.0	0.0	32.9	301
9/26/26	1036.60	59664	1058	0.204	-10	398	0	0.00	302	291	11.3	0	0	80.3	21	158.85	0	0.0	62.0	5.6	56.4	0.10	0.0	0.0	32.8	266
9/27/26	1035.93	58957	1053	0.252	47	398	0	0.00	309	298	11.3	0	0	101.34	23	164.69	0	0.0	16.7	15.2	1.5	0.00	0.0	0.0	29.2	245
9/28/26	1035.36	58358	1048	0.252	101	398	0	0.00	305	249	9.6	46.2	0.1	86.13	-19	167.04	34.63	0.0	30.6	11.2	19.4	0.04	0.0	0.0	33.7	247
9/29/26	1034.71	57678	1043	0.246	62	400	0	0.00	302	291	11.1	0	0	87.68	21	171.12	39.5	0.0	22.0	18.8	3.2	0.01	0.0	0.0	33.2	302
9/30/26	1034.05	56991	1037	0.254	61	402	0	0.00	300	295	5.4	0	0	87.09	23	172.6	43.26	0.0	23.6	21.2	2.4	0.00	0.0	0.0	34.6	378
TOTAL CFS					1655	9528		0.40	6202	5758	338	106	1	1983	151	2938	159	0.0								
AVERAGE CFS					55	318			207	192	11	4	0	66	5	98	5	0.0								
TOTAL A/F					3278	18865			12280	11400	668	210	1	3926	300	5817	315	0.0	1389	447	941		0	31.6	958	8774
MONTHLY REVENUE TO DATE (approx.)							$0	K																		
AVERAGE A/F					109	629			409	380	22	7	0	131	10	194	10	0.0	46	15	31	16%	0	1.1	32	292
WATER YEAR TOTALS A/F					123,761	91,258		26.92	352,838	106,018	31,379	41,857	1	41,948	51,342		10,985	0.0	13,359	4,797	8,960		0	631	10,131	94,384

* Input total A/F previous month

** Daily averages imported from Ranch Systems

***Fish facility flows include Denil fishladder, aux pipe and smolt bypass pipe

† Includes Ponds A, C, E, and I overflows, temporary storage in the desilting basin and Pond B, JLB diversions, losses between meters. Negatives mean prior storage from pond B or desilting basin is discharging to other metered sources.