

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

General Manager Mauricio E. Guardado, Jr.

David D. Boyer

AGENDA ENGINEERING and OPERATIONS COMMITTEE MEETING Legal Counsel Thursday, November 3, 2022, at 9:00 a.m. **UWCD Headquarters, First Floor, Board Room** 1701 N. Lombard Street, Oxnard, CA 93030

### CALL TO ORDER – OPEN SESSION 9:00 a.m.

### **Committee Members Roll Call**

#### 1. **Public Comment**

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

2. **Approval of Minutes** (Proposed Time: 5 minutes)

### Motion

The Committee will review and consider approving the minutes from the October 6, 2022, Engineering and Operations Committee meeting.

#### November 9, 2022, Board Meeting Motion Agenda Items 3.

The Committee will review and discuss the following agenda items to be considered for approval at the November 9, 2022, Board meeting. The Committee will formulate a recommendation to the entire Board based on its discussions with staff. The Committee will discuss the following items:

#### 3.1 Contract Amendment to the Engineering Support Contract with Stantec Consulting Services, Inc. for the Vertical Slot Fish Passage Alternative

(Engineering Department, Craig Morgan) (Proposed Time: 5 minutes)

The Committee will consider recommending approval of the motion authorizing the General Manager to execute an amendment to the professional consulting services agreement with Stantec Consulting Services, Inc. (Stantec) in the amount of \$150,820 to provide continued engineering design support of the Vertical Slot as a Freeman Diversion Fish Passage Facility alternative to the full Board.

- **Project Highlights** (Proposed Time: 15 minutes per update) 4.
  - 4.1 **Engineering Department Update** (Dr. Maryam Bral)
  - 4.2 **Environmental Services Department Update** (Linda Purpus)
  - **Operations and Maintenance Department Update** (Brian Collins) 4.3

#### 5. **Future Agenda Items**

The Committee will suggest topics or issues for discussion on future agendas.



Engineering and Operations Committee Meeting Agenda Thursday, November 3, 2022 Page 2

### **ADJOURNMENT**

**Directors:** Chair Lynn E. Maulhardt Gordon Kimball Daniel C. Naumann

### Staff:

Mauricio E. Guardado, Jr. Anthony Emmert Linda Purpus Evan Lashly Randall McInvale Hannah Garcia-Wickstrum

Dr. Maryam Bral Brian Collins John Carman Jackie Lozano Vanessa Vasquez Craig Morgan Michel Kadah Adrian Quiroz **Robert Richardson** 

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:

Posted: (date) October 27, 2022

At: www.unitedwater.org

Mauricio E. Guardado, Jr. General Manager Brian Collins, Chief Operations Officer

Dr. Maryam Bral, Chief Engineer

(attest) Jackie Lozano

Posted: (date) October 27, 2022 (time) 4:15 p.m. (attest) Jackie Lozano At: United Water Conservation District Headquarters, 1701 N. Lombard Street, Oxnard CA 93030

(time) 4:00 p.m.



### <u>MINUTES</u> ENGINEERING AND OPERATIONS COMMITTEE MEETING

Thursday, October 6, 2022, at 9:00 a.m. Board Room, UWCD Headquarters 1701 N. Lombard Street, Oxnard, CA 93030

## **COMMITTEE MEMBERS IN ATTENDANCE**

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

## **STAFF IN ATTENDANCE**

Dr. Maryam Bral, chief engineer Brian Collins, chief operations officer John Carman, operations and maintenance program supervisor Hannah Garcia-Wickstrom, associate environmental scientist Michel Kadah, Engineer Evan Lashly, environmental scientist Tessa Lenz, associate environmental scientist Jackie Lozano, administrative assistant Craig Morgan, engineering manager Josh Perez, chief human resources officer Zachary Plummer, technology systems manager Linda Purpus, environmental services manager Ed Reese, technology systems specialist Daryl Smith, controller Ambry Tibay, senior accountant Vanessa Vasquez, administrative assistant Brian Zahn, chief financial officer

### PUBLIC IN ATTENDANCE

One member of the public was in attendance but chose not to sign the attendance sheet.

### Call to Order – Open Session

Chair Maulhardt called the Committee meeting to order at 9:01 a.m. All Committee members were present.

### 1. Public Comments Information Item

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

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

General Manager Mauricio E. Guardado, Jr.

Legal Counsel David D. Boyer

## 2. Approval of Minutes

### <u>Motion</u>

Motion to approve the Minutes of September 1, 2022, Engineering and Operations Committee meeting, Director Naumann; Second, Chair Maulhardt. Voice vote: two ayes (Maulhardt, Naumann), none opposed, and one abstained (Kimball). Motion carried 2/0/1.

### 3. October 12, 2022, Board Meeting Agenda Motion Items

The Committee reviewed and discussed the following motion items for the October 12, 2022, UWCD Board of Directors meeting to formulate Committee recommendations:

3.1 Contract with Northwest Hydraulic Consultants for the Freeman Diversion Hardened Ramp Additional Modeling and Design Updates

Engineering Manager Craig Morgan presented the motion item to the Committee (presentation attached). There was one question from Director Naumann. It was recommended by the Committee that Mr. Morgan bring forward the same presentation to the Board.

No public comments or questions were offered.

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

3.2 Pre-implementation Studies in Support of Federal Energy Regulatory Commission Fish Passage Assessment – Amendment to Professional Consulting Services Agreement with Cramer Fish Sciences - \$425,633 Environmental Services Manager Linda Purpus introduced the motion to the Committee and welcomed Environmental Scientist Evan Lashly to the podium to present (presentation attached).

Chair Maulhardt requested that the photos depicted in the presentation be date stamped for the purpose of referencing the condition of the streams at that moment. Director Naumann agreed and added that also including the length of time showing the months of when there was a wet period and dry period would be helpful.

Upon review of the Sampling Summary slide, Chair Maulhardt suggested Mr. Lashly include a statement that references the natural environmental conditions. It was the Committee's request to bring this presentation to the Board and going forward the Committee would like to see regular updates.

No public comments or questions were offered.

With the full support from the Committee on staff's ongoing work, the Committee members were all in favor of recommending approval of the motion item to the full Board.

### 3.3 Verizon Request for Easement for Cell Tower Fiber Optic Conduit

Chief Operations Officer Brian Collins presented this motion item to the Committee. There were no comments or questions from the Committee.

No public comments or questions were offered.

The Committee members were all in agreement to recommend approval of the motion item to the full Board.

### 4. **Project Highlights (September 2022)**

### 4.1 Engineering Department Update (see attached slides)

Dr. Maryam Bral presented an overview of the Engineering Department's activities which included updates on the progress of the Condor Point picnic sites, the Santa Felicia Dam Safety Program Audit and site visit, and the Integrated Regional Water Management Grant (IRWM) Round 2 Implementation<u>in support of the District project related to the Noble and Ferro basins interconnection</u>. Regarding IRWM, Director Naumann requested an additional slide be added to show the undercrossing connection from the Noble to Ferro basins. Dr. Bral also provided updates on the Extraction Barrier and Brackish Water Treatment Project as well as ongoing work at the Iron and Manganese Treatment Facility. The department participated in one public outreach event with Navy staff. Chair Maulhardt felt the slides were a good summary on highlights and it was his recommendation to bring forward all slides to the Board for presentation.

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

### 4.2 Environmental Services Department Update (see attached slides)

Ms. Purpus provided an introduction of this agenda item to the Committee. It was at that time that she invited Mr. Lashly to the podium to present their departmental updates which included submission of the Historical Properties Management Plan, and permitting efforts in support of the Santa Felicia Dam, Lake Piru Recreation Area, and Freeman Sediment Management Project. There was some discussion between the Committee and staff regarding the District's comment letter for CDFW consideration in evaluating status of species under CESA. The Committee members agreed to bring forward the full presentation to the Board.

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

## **4.3 Operations and Maintenance Department Update** (see attached slides) Mr. Collins presented an overview of the Operations and Maintenance Department

activities. Included in the overview presentation were images depicting staff's sediment management efforts at the Freeman Diversion, and the work being done

Engineering and Operations Committee Meeting MINUTES October 6, 2022 Page 4

on the OH and PTP pipelines. Director Maulhardt was pleased on the ongoing work put forth by staff.

Upon conclusion of the regular monthly updates, Mr. Collins moved into a special presentation and video on the modeling project taking place at the University of Iowa. There was great conversation between the Committee members and staff regarding the model. The Committee was pleased to see the progress and asked to share the details and video at the upcoming Board meeting. At 10:44 a.m., Director Naumann excused himself from the meeting.

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

### 5. Future Agenda Topics

None were offered. On a separate note, Chair Maulhardt asked to publicly express his apology for referring to Mr. Craig Morgan as "Greg" citing his relationships with many friends with that name.

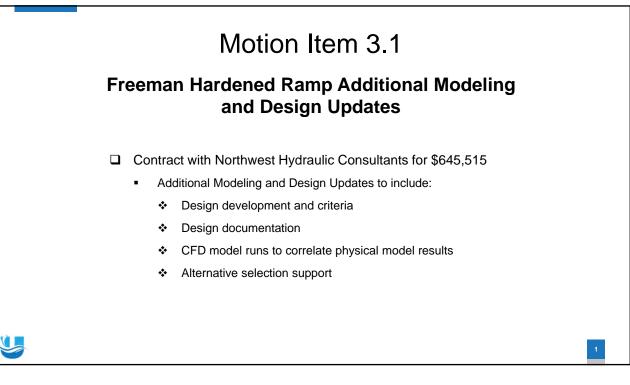
### ADJOURNMENT 10:59 a.m.

Chair Maulhardt adjourned the meeting at 10:59 a.m.

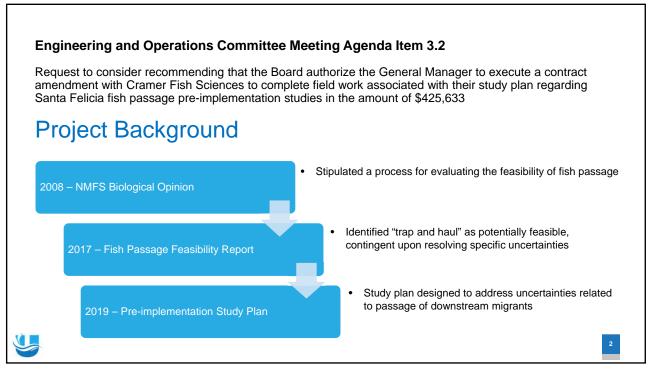
I certify that the above is a true and correct copy of the minutes of the Engineering and Operations Committee Meeting of October 6, 2022.

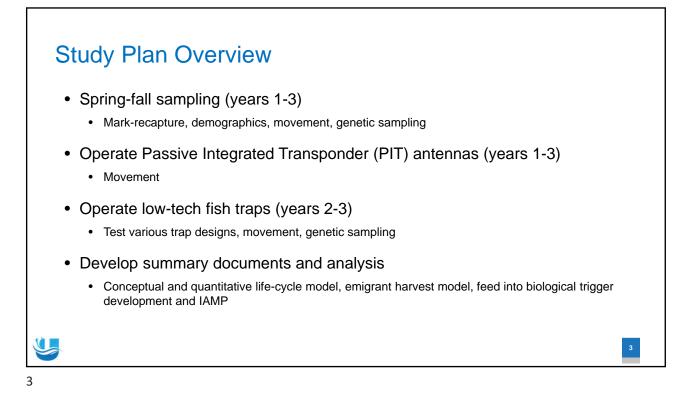
ATTEST:

Chair Lynn E. Maulhardt





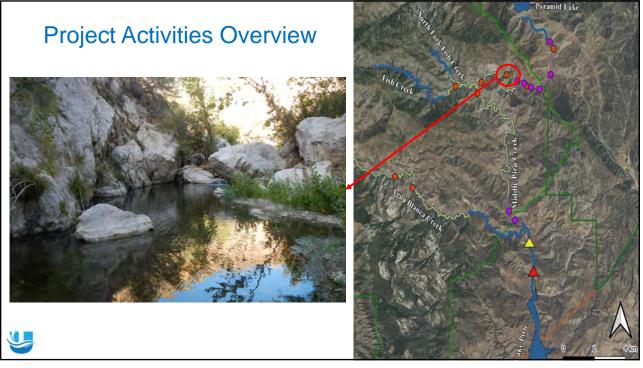






- Spring-fall field sampling
  - Fall 2018, spring 2019, fall 2019, fall 2021, spring 2022
  - COVID interrupted planned spring and fall 2020, spring 2021 activities
- Operate Passive Integrated Transponder (PIT) antennas (years 1-3)
  - · Installed in 2018 and operated (mostly) continuously since
- Operate low-tech fish traps (years 2-3)
  - Installed/operated in 2020; interrupted due to COVID-19
  - 2021-22 year successful



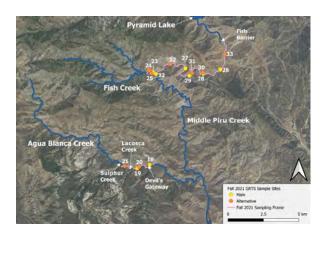


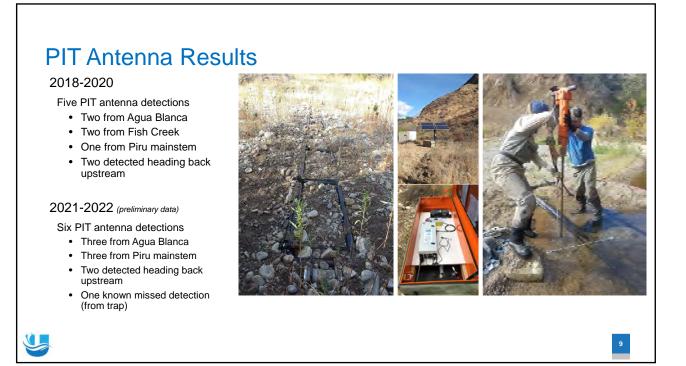




# Sampling Summary

Location	Tagged	Average Density (trout/m)
Middle Piru	1,260	0.36
Agua Blanca	236	0.23
Fish Creek	211	0.42
Total/Average	1,707	0.34





# **Trapping Summary**

#### Feb 2020-March 2020

COVID-19

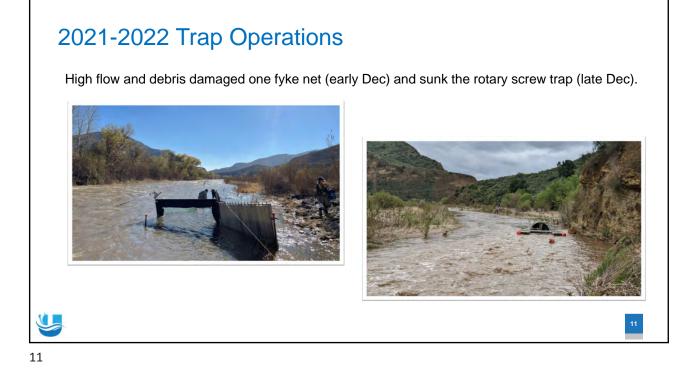
• One O. mykiss captured

#### Dec 2021-May 2022

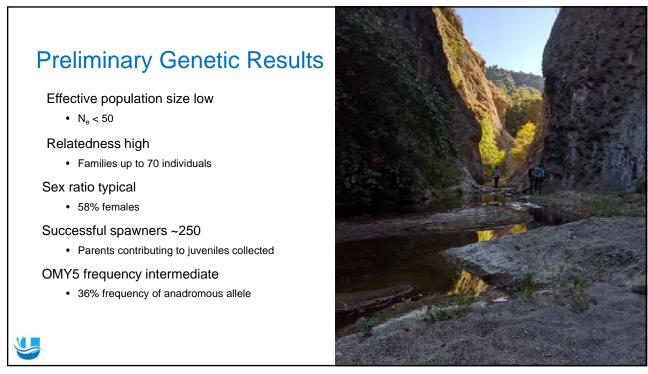
Low flows/high temps

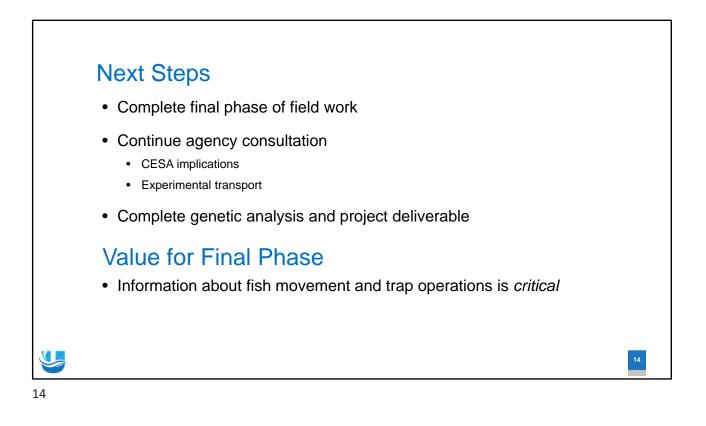
- Five O. mykiss captured
  - One all smolt characteristics
    - Four some or none
- Five days/week Dec-March
- Seven days/week March-May

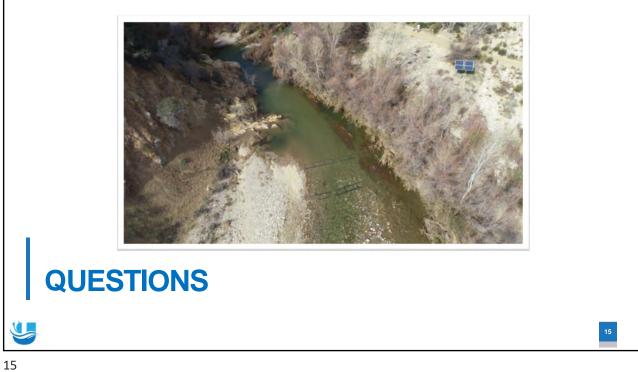










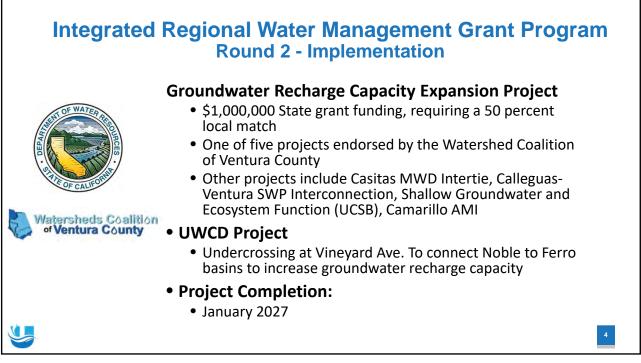














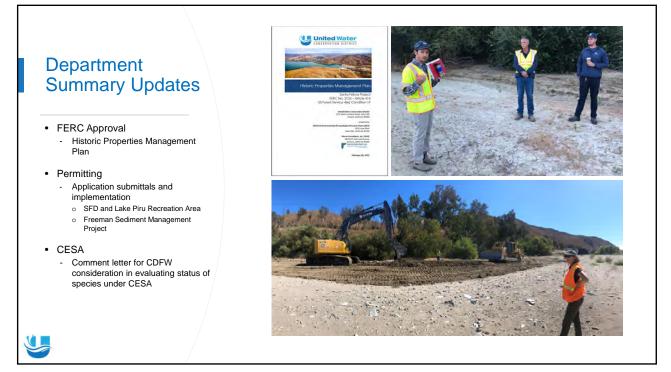


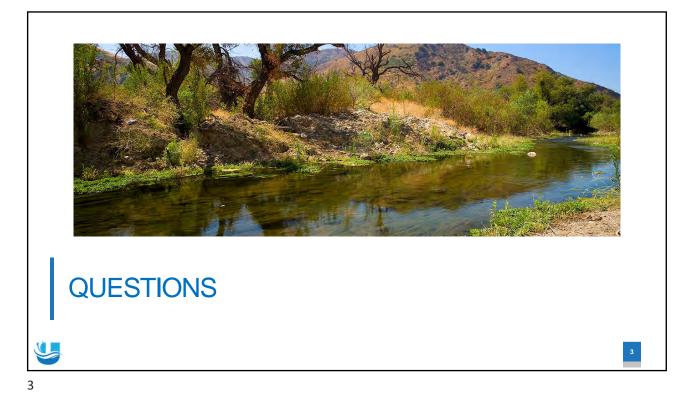












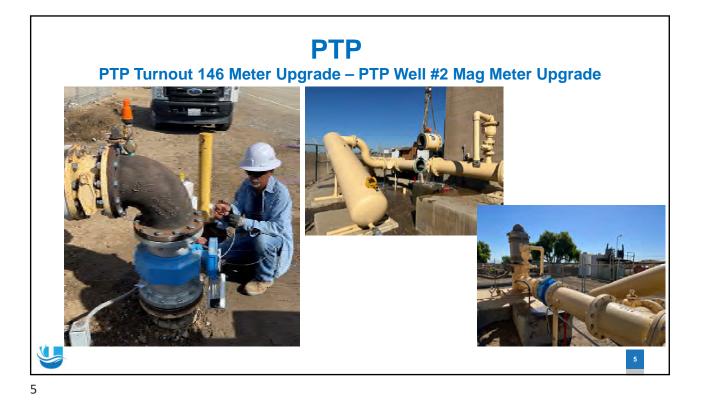




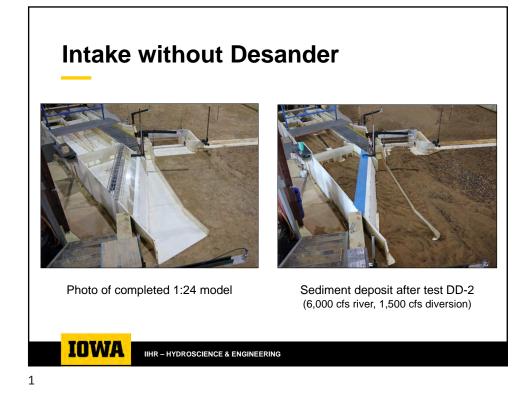


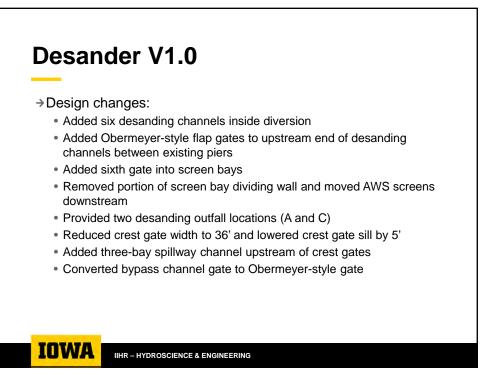






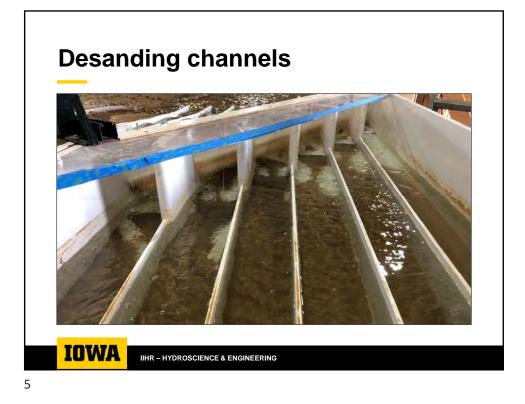


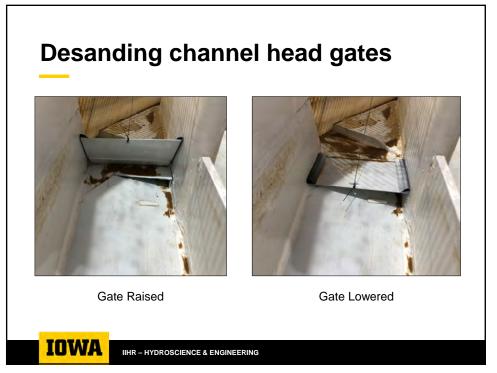






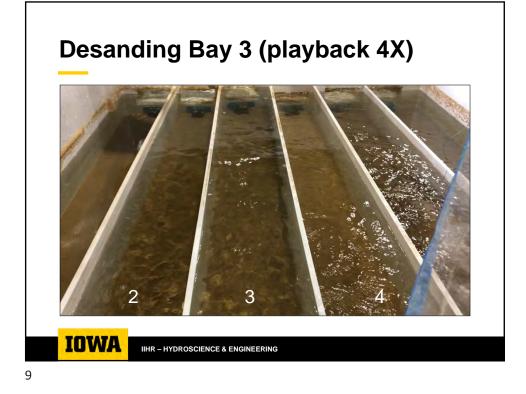










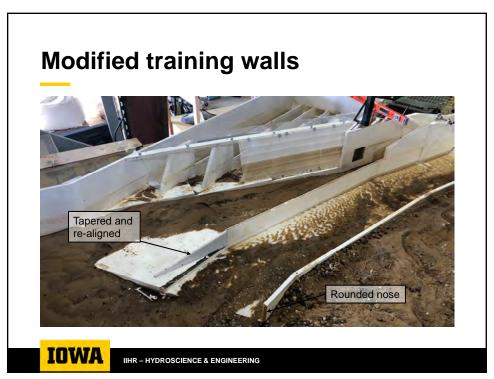






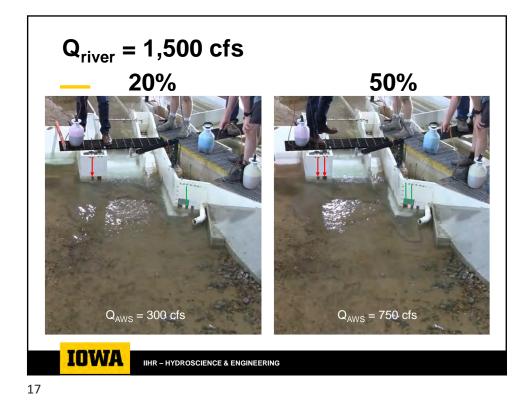


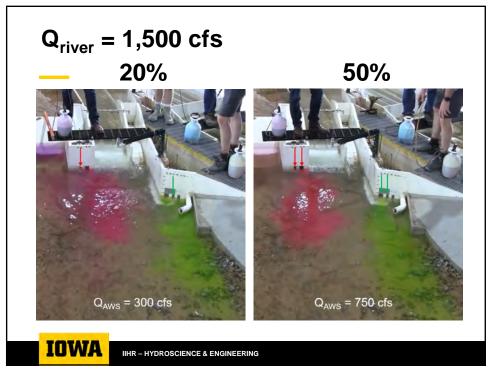


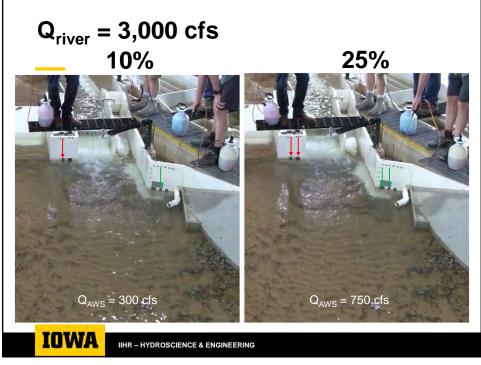




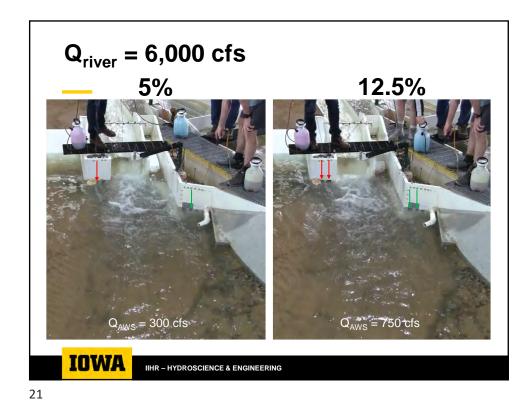


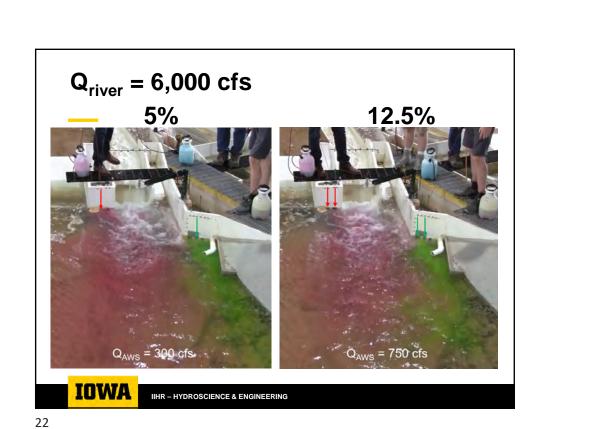


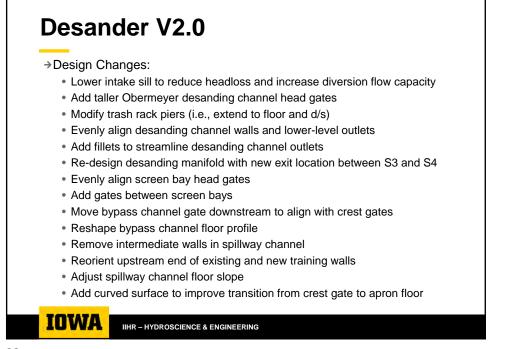


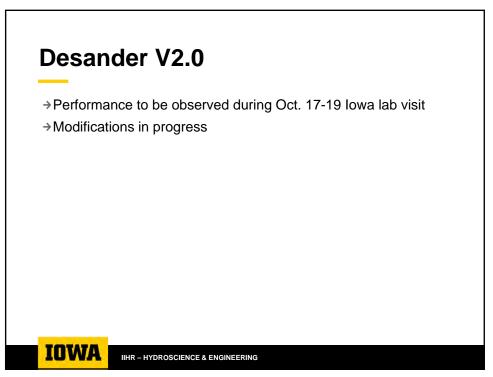


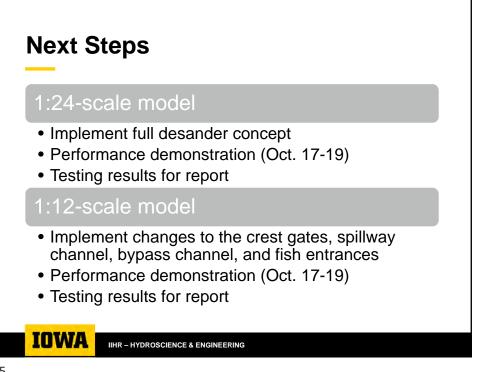




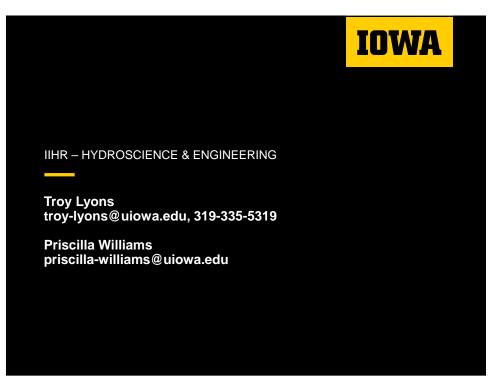














### **Staff Report**

То:	Engineering and Operations Committee Members		
Through:	Mauricio E. Guardado Jr., General Manager		
From:	Dr. Maryam A. Bral, Chief Engineer Craig Morgan, Engineering Manager		
Date:	October 18, 2022 (November 3, 2022 meeting)		
Agenda Item:	3.1 Contract Amendment to the Engineering Support Contract with Stantec Consulting Services, Inc. for the Vertical Slot Fish Passage Alternative <u>Board Motion</u>		

#### **Staff Recommendation:**

The Committee will consider recommending approval of the motion authorizing the General Manager to execute an amendment to the professional consulting services agreement with Stantec Consulting Services, Inc. (Stantec) in the amount of \$150,820 to provide continued engineering design support of the Vertical Slot as a Freeman Diversion Fish Passage Facility alternative to the full Board.

#### **Discussion:**

Due to unforeseen additions to the design of the Vertical Slot (i.e., desander, secondary sluice, etc.), additional engineering support and CFD model runs were required in order to meet the court mandated deadlines. Stantec dedicated additional staff to this project for the last three months to ensure the design additions were fully vetted.

Staff recommends the Board authorize the General Manager to execute an amendment to the contract with Stantec to provide engineering services and support of the Vertical Slot as an alternative Fish Passage Facility at the Freeman Diversion.

#### **Fiscal Impact:**

The physical modeling support, hydraulic design, and analysis of the Freeman Diversion Fish Passage Facility is included in the Fiscal Year 2022-23 Budget (421-400-81020 Project 8001), and sufficient funds are available to provide for the \$150,820.

#### Attachments:

Attachment A – Amendment No. 1 (Partially Executed)

#### AMENDMENT No. 1

#### TO THE PROFESSIONAL CONSULTINGS SERVICES AGREEMENT

The Professional Consulting Services Agreement (hereinafter referred to as "Agreement"), made effective May 9, 2022, by and between United Water Conservation District (hereinafter "United"), and Stantec Consulting Services, Inc. (hereinafter referred to a "Consultant"), for the purpose of providing engineering services in connection with the Vertical Slot Fish Passage Alternative, is here by amended as follows:

#### Agreement

On May 9, 2022 United Water Conservation District entered into an agreement with Stantec Consulting Services, Inc. to obtain professional engineering services provided in connection with the Vertical Slot Fish Passage Alternative.

#### Scope of Work

This amendment dated November \_\_\_\_\_, 2022, provides for additional engineering services to support the Vertical Slot Fish Passage Alternative. The justification for the additional work is listed in more detail in the attached proposal.

#### **Contract Term**

This amendment provides for an extended contract term through October 31, 2022.

#### Compensation

The not to exceed cost for the additional work described above is \$150,820. The total contract amount is now \$357,490. The conditions of the original Agreement dated May 9, 2022, shall remain enforce except as amended herein.

United Water Conservation District

Stantec Consultant Services, Inc.

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Heidi Wahto Principal

Mauricio E. Guardado, Jr. General Manager

# AMENDMENT No. 1 TO THE PROFESSIONAL SERVICE AGREEMENT

Attachment A – Scope of Work and Schedule of Charges



Stantec Consulting Services Inc. 1687 114<sup>th</sup> Avenue SE Suite 100, Bellevue WA 98440

October 4, 2022

Attention: Mr. Craig Morgan United Water Conservation District 106 North 8th Street Santa Paula, CA 93060

#### Reference: Freeman Diversion Dam, Change Order to 3.1 – Supplemental Physical Modeling Support

Dear Craig,

Thank you for the opportunity to submit this change order request to United Water Conservation District (UWCD) to cover unanticipated effort to support the physical modeling and hydraulic design development of the vertical slot option for the Freeman Diversion Dam.

In keeping with the format of our initial contract, this change order maintains the same task numbers as before. We are requesting changes to Tasks 1 and 3 to cover the work. Specifically, items covered by this change order address additional budget requested for unanticipated effort realized to obtain and convert lab bathymetry into a new CFD model requested for confirmation of physical model results and to prepare 3D drawings for physical model refinement changes. In the interest of maintaining the schedule we continued forward with this work, but it was necessary to borrow budget from other tasks to maintain the requested turnaround schedule for the lab prior to the October 31, 2022 deadline. Detailed descriptions of the work activities are presented in the following section under Task 1 and Task 3.3.

# **SCOPE OF SERVICES**

# Task 1Project Management and Meetings

Project management and administration of the contract as defined in the original Task Order will be conducted through October 31, 2022.

# Task 3Geotechnical Investigation and Hydraulic Modeling

# 3.3 Physical Modeling Observation and Integration

Physical modeling of the vertical slot design is being conducted at the IIHR in Iowa City, Iowa. Stantec provided input and design support to IIHR for the completion of the physical modeling and will continue to assist UWCD in addressing agency comments on the modeling for submittal on October 31, 2022, in accordance with the latest stipulated order.

The following work items are for support of the vertical slot alternative modeling and were not included in the current contract (May 2022) to the level required:



October 4, 2022

#### Mr. Craig Morgan Page 2 of 4 Reference: FDD, Change Order Proposal

• <u>Original Scope</u>: Coordination calls between the design team and lab throughout the completion of the 1:24 and 1:12 models on a weekly basis until the report is submitted to the agencies on October 31, 2022.

<u>Change Order Justification</u>: In order to support the lab's development of refined designs, Stantec was requested to commit more Principal-level resources to the project throughout the remainder of the physical modeling. Coordination calls and meetings required an additional 80 than originally assumed.

• <u>Original Scope</u>: Review the IIHR modeling report drafts and provide comments within 1 week of receipt of the draft report from the lab. Design changes from the results would then be reflected in the drawing to be included in the updated Hydraulic Design report (DDR) for review by UWCD and the agencies (a future task).

<u>Change Order Justification</u>: Major features were added to the design resulting from interim lab results and from the hardened ramp modeling. These include the desander system with control gates and spillway sluice channels. Ideas from the lab were developed into the 3D drawings and with digital files transmitted back to the lab for inclusion into their CAD program.

<u>Original Scope</u>: Complete the hydraulic design of the vertical slot fishway and intake design based on the findings from the modeling. Conduct additional CFD modeling runs (5) to validate or provide a numerical backup for the IIHR findings and to provide additional data in support of UWCD's alternative selection.

<u>Change Order Justification</u>: We had anticipated the CFD Model, already developed, could be modified to reflect final river bathymetry and features with runs made at flows of 3,000 cfs. IIHR provided electronic scan data files to Stantec for conversion into the CFD software. Upon receipt of the data, it was found to be too detailed for use with our software and it took several iterations with the lab staff to find a workable solution so we could proceed.

# Assumptions and Support Required from UWCD

In preparing this change order proposal we made the following new assumptions. These assumptions supplement the assumptions listed in the December 22, 2021 letter proposal.

- No allowance for expert testimony is included and this service would require separate authorization and budget.
- The 100% hydraulic design for the vertical slot ladder to include updates to the September 18, 2020, Design Development Report (DDR) and drawings to document the vertical slot ladder design and operation will be conducted under a future authorization.



October 4, 2022

#### Mr. Craig Morgan Page 3 of 4 Reference: FDD, Change Order Proposal

- No additional physical models at IIHR will be developed that require Stantec involvement (e.g. prototype desander pipe or fish screens).
- Stantec will support UWCD in scheduled court mediation sessions or related agency working sessions on an as requested basis. No mediation sessions are anticipated in this change order but can be added under separate authorization, if required.

# **BASIS OF COMPENSATION AND BUDGET**

Compensation for these Scope of Services shall be in accordance with the methods and specific amounts described herein.

- Rate Schedule. Compensation shall be on an hourly rate basis using current project rates (approved January 2022). All work under this change order will be completed by October 31, 2022.
- 2. Other Direct Cost. Stantec will bill Other Direct Costs for travel, materials, equipment, or consumable supplies related to this project, including outside printing/scans of full-size drawings or subconsultants at actual costs plus 12%.
- 3. Flat Rate Disbursement at the rate of \$11.00 per labor hour for each hour incurred by Stantec employees for Direct Labor as described herein. Flat Rate Disbursement charge shall include computer equipment and usage, telecommunications, routine copying, printing of draft and final documents, information sharing platform (SharePoint), and Computer Aided Drafting (CAD). This charge will appear on invoices as "Flat Rate Disbursement."
- 4. Mileage for use of employee personal vehicles will be reimbursed at a per mile value equal to the rates established by the Federal government at the time that travel is incurred.

The budget requested by phase and major task is provided below in Table 1. The estimate to complete the work described in this Scope of Services is \$150,820.

Task		Estimated Labor Hours	Estimated Budget
Phase 3.2a - Supplemental Physical Modeling Support			
1	Project Management and Meetings	46	\$10,185
3	Geotechnical Investigations & Hydraulic Modeling 3.3 Complete CFD Modeling and Hydraulic Design	536	\$140,635
	Requested Change Order Amount	582	\$150,820

#### Table 1 Additional Budget Summary Table



October 4, 2022

Mr. Craig Morgan Page 4 of 4 Reference: FDD, Change Order Proposal

# PRELIMINARY SCHEDULE

The project will generally be conducted in accordance with the revised order (Dkt 540, 10/13/2021) as presented below.

Key Milestone Target Dates:

- Model observation trips
  Sept 19-21 & Oct 17-19, 2022
- Stantec comments on IIHR draft model report (if rec'd by 10/6) ...... Within 1 week of receipt
- Completion of current contract......October 31, 2022

Regards,

#### STANTEC CONSULTING SERVICES INC.

idi G Walt

Heidi Wahto Project Manager Phone: (425) 602-3514 heidi.wahto@stantec.com



То:	Engineering and Operations Committee Members		
Through:	Mauricio E. Guardado Jr., General Manager		
From:	Maryam A. Bral, Chief Engineer Craig A. Morgan, Engineering Manager Robert J. Richardson, Senior Engineer Michel Kadah, Engineer Adrian Quiroz, Associate Engineer Erik Zvirbulis, GIS Analyst		
Date:	October 18, 2022 (November 3, 2022, meeting)		
Agenda Item:	4.1 Monthly Engineering Department Report <u>Information item</u>		

### **Staff Recommendation:**

The Engineering and Operations Committee members will receive this summary report from the Engineering Department regarding its activities for the month of October 2022.

#### **Discussion:**

- 1. Santa Felicia Dam Safety Improvement Projects
  - Spillway Improvement Project
    - The Santa Felicia Dam Safety Improvement Project Board of Consultants (BOC) meeting No. 6 was held at the District headquarters on September 28 and 29. A total of 25 individuals from the Federal Energy Regulatory Commission (FERC), California Department of Water Resources, Division of Safety of Dams (DSOD), BOC, GEI Consultants (GEI), and District staff attended this meeting. The 30% design Spillway improvement results and reports were reviewed by the BOC and recommendations were provided to advance the design to the next design phase (60% design).
    - On October 14, the BOC Final Report along with updated BOC comments tracking form were e-filed to FERC. Hard copy was also submitted to DSOD.
    - Staff prepared and submitted to DSOD permit closeout documents for the 2020 drilling program and survey monument installation activities performed at the Santa Felicia Dam in 2020. The permit closeout documents include a signed affidavit form and an itemized construction cost breakdown.
    - On October 14, Staff attended a kick-off meeting for the 60% design phase with GEI.
    - On October 24, Engineering, Environmental Service, and Water Resources staff attended a meeting with GEI to discuss the proposed construction schedule and possible

impact of reservoir level during construction, availability of water for startup testing, and environmental constraints.

- Staff prepared an Application for Dam Repair or Alteration to initiate DSOD review of the Spillway Improvement Project design packet. An electronic payment in the amount of \$75,382 will be submitted to DSOD via ACH transaction. This fee is equal to 20% of the total application fee. The remaining application fee will be submitted to DSOD along with the future submittals.
- Outlet Works Improvement Project
  - The above updates reported for the Spillway Improvement Project are also applicable to the Outlet Works Improvement Project.
- FERC License Amendment Application, NEPA Documentation and Section 7 Consultation
  - On October 14, Staff received FERC's comments on the draft Biological Assessment (BA). However, comments from NMFS were not included. FERC requested to make the necessary revisions to the draft BA, amendment application, and Exhibit E and file the supplemental information within 60 days. During a follow-up correspondence with FERC, Staff was informed that FERC's preference is to receive a revised BA that addresses comments from both FERC and NMFS. Since NMFS comments have not been received, Staff may request a time extension to complete the revised BA.
  - On October 26, Staff e-filed the District response letter to NMFS pre-consultation comments regarding 30% fish screen design. The District had prepared the response letter in April 2022 but due to administrative errors had not e-filed the document.
- Loan and Grant Applications
  <u>2021 FEMA HMGP</u>
  - No update to report.

#### Prepare CA Match – FEMA HMGP

• No update to report.

# WIFIA Loan

• On October 13, Engineering and Finance staff met with the EPA (WIFIA loan administrator) to receive updated from WIFIA loan underwriters. Staff are scheduled to meet with WIFIA loan underwriter on a biweekly basis starting from November first to discuss the loan documents. Once the loan documents are completed, Staff will seek the Board of Directors approval for finalizing and filing the loan documents with WIFIA.

- Santa Felicia Dam Safety
  - The FERC Engineering guidelines require that an Independent Consultant (IC) conduct a Part 12D Safety Inspection of SFD on a 5-year basis. The District retained Gannett Fleming (GF) to serve as the IC for the 2022 SFD Part 12D Safety Inspection. On August 23, 2022, the IC conducted a site safety inspection of SFD. The IC will summarize their findings, observations, and recommendations in an IC Safety Inspection Report. The District is required to submit this report to FERC by November 1, 2022. However, due to the numerous dam safety activities currently being undertaken, on September 2, 2022, the District submitted a request for extension of time to FERC to extend the deadline for this report to December 31, 2022. The FERC approved this request for extension on October 14, 2022.
  - On September 20, 2022, Engineering Staff conducted a meeting with DWR Staff to discuss the possibility of a joint EAP workshop. The purpose of the workshop is to discuss interagency EAP procedures and to initiate discussions related to reservoir management during the construction of the SFD SIP and Pyramid Dam releases during the construction phase. This workshop has been tentatively scheduled for November 15, 2022. A draft agenda was submitted to DWR on October 13, 2022.
  - The District is required to conduct an EAP Tabletop and an EAP Functional Exercise on a 5-year basis. The last tabletop exercise was conducted in 2018 while the last functional exercise was conducted in 2019. These exercises were due in 2023 and 2024 respectively, however, as an Interim Risk Reduction Measure (IRRM), the District committed to conducting these exercises one year earlier to enhance emergency preparedness. The District has retained GF to support the planning and facilitating of these exercises per an agreement with GF that was executed on August 9, 2022. A kickoff meeting was held on August 9, 2022, between staff and GF. A series of planning meetings were held leading up to the exercise. The tabletop exercise was conducted on October 20, 2022. The exercise had a hybrid format with over forty (40) participants in person and more than fifteen (15) participants online via Microsoft Teams. There were several participants from external agencies including the Ventura County Sherriff's Office, the Ventura County Sherriff's Office of Emergency Services, the Piru Neighborhood Council, the City of Fillmore, the Federal Bureau of Investigation, the National Weather Service, Ventura County Fire Communications, California Highway Patrol, the National Weather Service, DWR's Southern Field Division, Division of Safety of Dams, the City of Oxnard, and the City of Camarillo. An After-Action Report will be prepared and submitted to FERC within 60 days of the exercise.
- 2. Condor Point Improvement Project
  - Construction of the Ramada Shade Structures began on October 14, 2022 (see Figure 4) and is on track to be completed by October 28, 2022. The metal shade structures at the Juan Fernandez Launch Ramp Facility were completed on October 14, 2022 (see Figure 5).

- 3. Freeman Diversion Expansion
  - Staff, USBR, the University of Iowa, Stantec and NHC participate in rotating weekly calls with NMFS and CDFW to provide updates on physical modeling, CFD modeling and <u>design alternations.</u>
  - October 3-5, Staff along with representatives from NHC, visited USBR's Technical Services Center to witness the 1:12 and 1:24 scale physical models of the Hardened Ramp.
  - October 17-19, Staff along with representatives from Stantec, visited the University of <u>Iowa to witness the 1:12 and 1:24 scale physical models of the Vertical Slot.</u>
- 4. Iron and Manganese Treatment Facility
  - Meetings:
    - Weekly coordination meetings between staff and the District's construction manager (HDR, Inc.)
    - Weekly construction progress meetings hosted by HDR and attended by GSE Construction, Taft Electric, Kennedy Jenks Consultants (KJ) and staff.
  - GSE Construction has submitted approximately 304 out of a total of 341 submittal packages anticipated for the project. HDR and design engineer (KJ) have provided responses on approximately 290 submittal packages including a requirement to comply with the Buy American Act (BAA).
  - GSE Construction has submitted approximately 110 Requests for Information (RFIs) to date. HDR, KJ and the District have been providing responses.
  - Twenty (20) Change Orders (COs) have been fully executed to date amounting to a net total of \$1,118,384.12. This represents 11.9% of the original contract amount (\$9,342,900.00). Four (4) of these COs amounting to \$662,910.19 or 7.1% of the original contract amount are directly related to compliance with the BAA which is a federal grant requirement (the project was not originally bid with this requirement in place). Therefore, only \$455,473.93 or 4.9% of COs have resulted in additions or modifications to the original scope of work.
  - Staff reviewed and provided comments on the final draft Operations, Maintenance and Monitoring Plan (OMMP) which is required by the State Water Resources Control Board (SWRCB) Division of Drinking Water (DDW) prior to start-up and operation of the facility. The tentative OMMP submittal date to DDW is November 9, 2022.
  - Coordinated Upper Aquifer System (UAS) well manifold pipeline shutdown on October 26<sup>th</sup> to make the Filtered Water (FW) and RAW bypass connections. Issued notice to OH Pipeline users to curtail water use during the shutdown period.
  - GSE Construction continued construction of the following (See Figures 2, 3 and 4):
    - o 24" Raw Water Pipeline (RAW)
    - 20" Backwash Supply Pipeline (BWS)
    - 18" connections to RAW
    - o Backwash Supply Vault installed
    - 8" Air Supply Pipeline

- 8" Return Wash Water (RWW)
- 4" Utility Water (UW)
- 2.5" Utility Water (UW)
- Various underground sample lines
- Various underground electrical conduits
- Filter face piping
- Laboratory/Electrical/Blower Building
  - i. Framing for drywall
  - ii. HVAC
  - iii. Interior electrical
  - iv. Special inspections (fire dept., mechanical/electrical/plumbing)
- The tentative date for construction completion and implementation is January 26, 2023. A total of five (5) inclement weather days have been counted.
- 5. <u>OH System Backup Generator at the El Rio Booster Plant</u>
  - No update to report. The project was completed, and Staff are currently waiting on FEMA programmatic grant closeout.
- 6. <u>PTP Metering Improvement Project-</u>
  - Total number of Meters installed: 40 of 61 or 65.5% complete.
  - An additional four (4) Meter installations are planned by the end of 2022.
  - Easement acquisition completion: 23 of 41 obtained or 56.1% complete
  - On September 29, UWCD installed the meter for site #134
  - On October 13, staff met with Hamner, Jewell and Associates (HJA) to discuss the progress of the easement acquisition which HJA is performing for the District.
- 7. <u>PTP Recycled Water Connection Laguna Road Pipeline Project</u>
  - Staff completed their review of the preliminary alignment drawings. Comments were submitted to Kennedy Jenks to be incorporated in the final preliminary drawings.
  - On October 24, Staff updated and submitted the Environmental Information Form and Deliverable Schedule as part of the first progress reporting for Prop 1 SGMA grant. The progress report and eligible invoices will be submitted in November.
- 8. Rice Avenue Grade Separation Project and Impact on PTP
  - On October 17, Staff received a Notice of Intent (NOI) issued related to acquisition of certain real property or interests in real property by eminent domain. Through this NOI CalTrans notified the District that the California Transportation Commission (Commission) will be asked by CalTrans in December to adopt a Resolution of Necessity (Resolution). If adopted, the Resolution authorizes CalTrans to acquire the District property (Parcels 81216-1 and 81216-2 at PTP Well Site No. 4) by eminent domain. The District is not planning to contest the NOI.

- The Legal Counsel, in collaboration with Staff, prepared and submitted a revised copy of the Utility Agreement (UA) to the City of Oxnard for consideration on September 8, 2022. On September 20, the Assistant City Attorney confirmed the receipt of the revised UA and informed the Counsel that a copy of the executed UA was submitted to CalTrans Legal for review on September 20. On October 6, the City informed the District that CalTrans Legal had accepted the non-standard UA as requested by United and the City of Oxnard. However, CalTrans Legal edited the UA to include a provision regarding the Buy American Act compliance included in the Build Back Better Federal Legislation. The UA was signed by the General Manager on October 12 and returned to the City.
- 9. <u>State Water Project (SWP) Interconnection Pipeline Project</u>
  - The City of Ventura and Stantec have completed the hydraulic analysis for the project and will meet with other agencies including United on October 28 to discuss the results with the goal to finalize the interconnection pipe size and the preliminary design and proceed with the final design.
  - The oral arguments for the California Water Impact Network (CWIN) vs City of Buenaventura case is scheduled for November 9 at 1:30 pm and may extend for a couple of months.

# 10. Extraction Barrier and Brackish Water Treatment Project

- Meetings:
  - October 11, 2022 Bi-weekly progress meeting held with the U.S. Navy
  - October 25, 2022 Monthly progress meeting held with the U.S. Navy
- Grants:
  - Phase 1 Extraction Barrier Project Prop 1 Round 3 Ground Water Grant Program (GWGP) – State Water Resources Control Board (SWRCB) – preliminary award announcements anticipated in Fall 2022.
  - o Monitoring Wells Sustainable Groundwater Management (SGM) Grant Program
    - October 24 Submitted Environmental Information Form
    - November 3 Submitted invoices for eligible costs during the reporting period (12/17/2021 to 9/30/2022)
- CEQA/NEPA:
  - October 10 Staff held a proposal review workshop five (5) proposals were received in response to the Request for Qualifications/Proposals (RFQ/P) for CEQA and Regulatory Permitting services for Phase 1B (implementation phase) which are under review by Staff. The following three (3) firms were selected for interviews:
    - Catalyst Environmental Solutions Santa Monica, CA
    - Environmental Science Associates (ESA) Los Angeles, CA
    - Rincon Consultants Ventura, CA
    - o November 1 Interview with prospective consultant, ESA
    - November 8 Interview with prospective consultant, Rincon

- November 14 Interview with prospective consultant, Catalyst
- Design:
  - October 14 Staff completed site layout maps for proposed monitoring wells at NBVC Point Mugu.
  - October 27 Staff will hold a design services proposal review workshop one (1) complete proposal was received in response to the RFQ/P for Design Services for Phase 1B (implementation phase) which is under review by Staff. The proposed firm is Kennedy/Jenks Consultants.
- 11. Asset Management/ CMMS System
  - Staff continues to work on tables and graphs for the end of year reporting from Santa Felicia Dam monthly reporting Survey123 app data exports.
- 12. Main Supply Line Sodium Hypochlorite Injection Facility
  - No updates to report.
- 13. Lake Piru Recreation Area 2022 Pavement Maintenance Program
  - On October 13, Staff performed a job walk at Lake Piru Recreation Area along with Gordian and asphalt contractor. The 2022 Pavement Maintenance Project will include pavement repair for approximately 53,000 square feet of Recreation Area roads.

14. Other Topics, Meetings and Training

- October 13 Robert Richardson virtually attended California Coastal Commission meeting to observe South Coast Water District's Coastal Development Permit application for the Doheny Desalination Facility at Dana Point (approved).
- October 26 Dr. Bral attended the in-person One Water Salinity Management Innovation Summit 2022 organized by the Southern California Salinity Coalition. During this one-day meeting, several agencies presented innovative projects and plans regarding salinity management in Southern California. The regulatory panel included the executive officer of the Santa Ana Regional Water Quality Control Board and the Assistant Executive Officer from the Los Angeles Regional Water Quality Control Board.



Figure 1 - 8" Welded Stainless Steel Air Supply Pipeline Installation



Figure 2 - 2.5" Copper Utility Water and Electrical Conduit Installation at Wash water Recovery Tank



Figure 3 - New Backwash Supply Vault and Filter Face Piping



Figure 4 – Ramada Shade Construction at Condor Point



Figure 5 – Metal Shade Structure Construction at the Juan Fernandez Launch Ramp



# **Staff Report**

To:	Engineering and Operations Committee Members		
Through:	Mauricio E. Guardado, Jr., General Manager Anthony A. Emmert, Assistant General Manager		
cc:	Dr. Maryam Bral, Chief Engineer		
From:	Linda Purpus, Environmental Services Manager		
Date:	October 18, 2022 (November 3, 2022, meeting)		
Agenda Item:	4.2 Monthly Environmental Services Department Report <u>Information Item</u>		

#### **Staff Recommendation:**

The Engineering and Operations Committee members will receive this staff report from the Environmental Services Department regarding its activities for the month of October 2022.

#### **Discussion:**

- 1. <u>Santa Felicia Project Operations and Federal Energy Regulatory Commission (FERC) License</u> <u>Support</u>
  - Water Release Plan and Water Release and Ramping Rate Implementation Plan

Under the Water Release Plan and FERC license for the Santa Felicia Project, United Water Conservation District (United) is required to make certain water releases from the Santa Felicia Dam for steelhead habitat and migration, when specific triggers are met. Triggers for habitat water releases are based on cumulative rainfall within the water year. United evaluates whether the trigger is met on the first day of each month, between January and June. Each month that the trigger is not met, the minimum required habitat water release is seven (7) cubic feet per second (cfs). The trigger for enhanced habitat water releases was not met on June 1, therefore, the minimum required habitat water release will remain at 7 cfs for the rest of the calendar year.

#### 2. Freeman Diversion Sediment Management

On September 27, 2022, the streamlined Freeman Diversion Sediment Management project was completed. Environmental Services staff supported project activities by holding a pre-project environmental compliance meeting for project staff and providing an on-site biological monitor during project activities. In addition, staff will be preparing the post-project reports in accordance with permits and authorizations for the project. On September 23, 2022, the District filed a request for an amendment to the Lake and Streambed Alteration Agreement issued by the California Department of Fish and Wildlife (CDFW) for the project. The purpose of the amendment is to extend the pilot channel an additional 100 feet further upstream to improve the effectiveness of the project.

# 4.2 Monthly Environmental Services Department Report Information Item

Environmental Services staff continues to coordinate with CDFW regarding the request and anticipates that the amendment will be granted, and the additional work will be complete by early November.

### 3. California Endangered Species Act (CESA) Candidacy of Southern California Steelhead

The public comment period to inform CDFW's status review closed on September 30, 2022. On September 20, 2022, United submitted public comments to CDFW. At their October 12-13, 2022, meeting, the California Fish and Game Commission (Commission) approved a request from CDFW for a six-month extension to complete their status review. Following this approval, CDFW's status review is now due to the Commission by November 13, 2023.

#### 4. Quagga Mussel Management

Staff continues to conduct routine monitoring under the QMMCP including monthly water quality sampling, monthly veliger (microscopic planktonic larvae) sampling, monthly artificial substrate sampling in Lake Piru (plate sampling), and natural substrate sampling in lower Piru Creek (surface surveys).

#### 5. Miscellaneous

- On October 7, 2022, Evan Lashly filed the annual Arborist Report with the Ventura County Planning Division in accordance with the Special Use Permit issued by Ventura County for the Park Service's Office replacement in 2019. The Arborist Report documents the condition of trees planted in Group Camp #2 to offset trees that were removed as part of the construction project.
- On October 18, 2022, Environmental Services staff attended a webinar discussing high accuracy real-time kinetic GPS receivers and field data collection software. The webinar focused on a District-owned GPS unit and software packages that both Environmental Services and Engineering utilize.
- On October 19, 2022, Environmental Services staff attended United's 2022 Water Sustainability Summit.
- During the weeks of October 3 and October 17, Principal Environmental Scientist Randall McInvale accompanied the Multiple Species Habitat Conservation Plan (MSHCP) team and traveled to Denver and Iowa to view and assess the hardened ramp and vertical slot fish passage physical models pending selection of a preferred alternative for analysis.



# **Staff Report**

То:	Engineering and Operations Committee Members	
Through:	Mauricio E. Guardado Jr., General Manager Brian Collins, Chief Operations Officer	
From:	John Carman, Programs Supervisor	
Date:	October 18, 2022 (November 3, 2022, Meeting)	
Agenda Item:	4.3 Monthly Operations and Maintenance Department Report <u>Information Item</u>	

#### **Staff Recommendation:**

The Engineering and Operations will receive this staff report from the Operations and Maintenance department regarding its activities for the month of October.

- 1. Water Releases, Diversions
  - Lake Piru dropped 1.3 feet in September to 14,604 acre-feet (AF) of storage.
  - 0 AF of water was diverted by the Freeman Diversion facility in October.
  - 0 AF of water was diverted to the Saticoy recharge basins in October (metered).
  - 0 AF of surface water was delivered to the El Rio recharge basins in October.
  - 0 AF of surface water was delivered to the PTP system in October.
  - 0 AF of surface water was delivered C customers in October.
  - 0 AF of surface water was delivered to Pleasant Valley County Water District in October.

#### 2. Major Facilities Update

#### • Santa Felicia Dam

- On November 1, 2022, the lake level was 79.0 feet below the spillway lip.
- Habitat water releases from Santa Felica Dam (SFD) were maintained at 7 cubic feet per second (cfs), for the month of October, as per the Water Release and Ramping Rate Implementation Plan for Lower Piru Creek.
- On October 19, 2022, in collaboration with the FBI, local law enforcement, Filmore Fire Department, Office of Emergency Services, contractor Gannett Fleming and staff performed the Santa Felicia Dam EAP tabletop exercise at the Lombard Headquarters.
- o Annual service, inspection, and testing of the SFD shop fire sprinkler system.

#### • Freeman Diversion, Saticoy, and El Rio Recharge Facilities

• Flows at the Freeman Diversion averaged zero cfs for the month of October, with zero cfs of surface water being diverted on November 1, 2022.

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

	2022	2021	2020
Saticoy	142'	144'	120'
El Rio	144.4'	137.7'	118.5'
PTP	147' - 192'	135' - 176'	121' - 153'

• Static water levels (distance of water from the well pad to the water table):

### • Oxnard-Hueneme (OH) Delivery System

- Staff maintained a collaborative presence with daily inspections for the City of Oxnard sewer line upgrades, contractor Toro Construction which will be boring below United's 42 inch OH Pipeline on Rose Avenue.
- Staff installed rebuilt 250 HP motor on OH Well #16.
- El Rio Operators worked with Canos Welding replacing inlet/outlet piping to natural gas engine #4 pump.
- October 26, 2022, Staff replaced the Post Chlorination Residual sample pump.

### • Pleasant Valley County Water District (PVCWD)

• PVCWD received surface water from the Conejo Creek Project and received some highly treated recycled water from the City of Oxnard's Advanced Water Purification Facility (AWPF).

#### • Pumping Trough Pipeline (PTP)

- During the month of October, the PTP system demand was met with PTP wells and supplemented with Wells 12 and 13 via gooseneck air gap piping.
- October 24, 2022, Contractor General Pump began removing and replacing pump/tube/saft/column pipe at PTP Well #3.

#### • Instrumentation

- Staff completed security camera installation and server transition to Genetec systems.
- Instrumentation completed automation programing for OH Well #12.
- Installation of El Rio Booster Plant entry gate system completed by staff.
- Security and Fire alarm system upgrades completed at El Rio Plant and Santa Felicia Dam facilities.

# • Lake Piru Water System

- All chlorine residuals and turbidity readings for the drinking water system were within proper ranges for the month of October.
- Monthly pH, turbidity and coliform samples were obtained for Lake Piru, as part of the Long Term 2 Enhanced Surface Water Treatment Rule compliance monitoring.
- 3. Operations and Maintenance Projects Update
  - The Iron and Manganese grant funded project is progressing well at El Rio Booster Plant, Operations staff assisted with the upper aquifer system shutdown on October 26, 2022.
- 4. Other Operations and Maintenance Activities
  - The Santa Felicia Dam Emergency Action Plan sirens located in Piru were exercised on October 7, 2022.
  - The monthly inspection of Santa Felicia Dam was performed.
  - Monthly bacteria samples were obtained for the PTP system.
  - Monthly meter readings were obtained for the OH, PTP, and PV Pipelines.
  - Completed and electronically transmitted the monthly OH Pipeline report to the State Water Resources Control Board Division of Drinking Water.
  - Static water levels were obtained for all El Rio, Saticoy, and PTP wells.
  - Weed abatement continued throughout the District.
  - Action priority update biweekly meetings for operations staff were continued.
- 5. Safety and Training
  - During the months of October, approximately 3100 hours of O & M department work were performed with no reportable accidents.
  - One Safety Meeting was conducted on at the District's Headquarters, covering Bloodborne Pathogens Protection. One safety video was shown to staff—*Bloodborne Pathogens Awareness (for non-research personnel) by* University of California (UC) Training & Education. The video emphasized the concept of universal precautions and safe work practices as it pertains to potential bloodborne pathogens exposure. In this month's tailgate talk, the IT Department conducted a "cyber" safety tailgate in recognition of National Cybersecurity Awareness month. A video entitled This is How *Hackers Hack You Using Simple Social Engineering* by Real Future (Fusion) was shown to staff to illustrate social engineering tactics and the need to remain vigilant against such tactics.

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

• Tailgate safety meetings were conducted at all individual O&M field locations and the topics included refresher training on equipment used at the various O & M locations. The online Target Safety assignment for October was "Water Industry Bloodborne Pathogens."

Attachment: Operations Log for October