

# ENGINEERING and OPERATIONS COMMITTEE MEETING MINUTES

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

General Manager Mauricio E. Guardado, Jr.

Legal Counsel David D. Boyer

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

## <u>COMMITTEE MEMBERS IN ATTENDANCE</u>

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

## **STAFF IN ATTENDANCE**

Mauricio Guardado, general manager
Anthony Emmert, assistant general manager
Dr. Maryam Bral, chief engineer
Marissa Caringella, environmental services manager
Clayton Strahan, interim chief operations officer
Randy Castaneda, water treatment supervisor
Murray McEachron, hydrologist supervisor
Craig Morgan, engineering manager
Evan Lashly, senior environmental scientist
Michel Kadah, engineer
Kaili Taniguchi, engineer
Vanessa Vasquez, clerk of the committee

#### **PUBLIC IN ATTENDANCE**

No members of the public were in attendance.

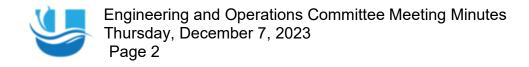
## Call to Order - Open Session

Director Naumann called the committee meeting to order at 9:39 a.m. The clerk of the Committee called roll. All Committee members were present (Naumann, Maulhardt, and Keeling).

Before public comments Director Naumann announced that the Regional Defense Partnership of the 21<sup>st</sup> Century (RDP-21) will be sending a support letter for the Santa Felicia Dam Safety Improvement Project. Chair Maulhardt then proceeded to recognize the importance of the date of the committee meeting in remembrance of Pearl Harbor.

## 1. Public Comments Information Item

Director Naumann asked for public comment. None were offered.



# 2. Approval of Minutes Motion

Motion to approve the Minutes from the October 5, 2023, Engineering and Operations Committee meeting, Director Naumann; Second, Maulhardt. Voice vote: three ayes (Naumann, Maulhardt and Keeling); none opposed. Motion carries 3/0/0.

## 3. December 13, 2023, Board Meeting Motion Agenda Item

The Committee reviewed and discussed the following motion items to formulate recommendations to the full Board at its December 13, 2023, meeting.

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

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

No further questions or comments.

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

3.2 Approve Resolution Determining the Three Barrel Culvert Replacement Project is Exempt from the Provisions of the California Environmental Quality Act and Approve the Project

Engineering Manager Craig Morgan presented motion item 3.2 (presentation attached).

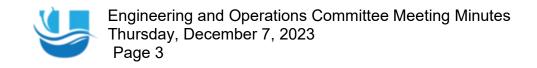
No further questions or comments.

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

3.3 Approve Resolution Determining the Inverted Siphon Replacement Project is Exempt from the Provisions of the California Environmental Quality Act and Approve the Project

Engineering Manager Craig Morgan presented motion item 3.3 (presentation attached).

No further questions or comments.



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

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

Engineering Manager Craig Mogan presented Motion Item 3.4 (presentation attached).

No further questions or comments.

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

# 3.5 Authorize Approval of a Contract Amendment to the Professional Consulting Services Agreement with Cramer Fish Sciences to Complete Pre-Implementation Studies

Senior Environmental Scientist Evan Lashly presented motion item 3.5 (presentation attached).

Director Keeling asked for clarification on the dollar amount listed in the motion item slide (different than the amount listed on the agenda). Mr. Lashly confirmed that the motion item slide reflected the correct amount, and this amount would be the amount presented to the Board.

No further questions or comments.

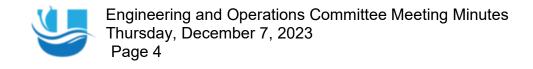
The Committee members were all in favor of recommending approval of this motion to the full Board.

# 4 Monthly Department Updates Information Item

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

## 4.2 Engineering Department Update

Dr. Maryam Bral presented department updates that covered status updates on 2023 Water Sustainability Summit, Santa Felicia Dam (SFD) Safety Improvement Project (SIP) Board of Consultants (BOC) Meeting No. 8, SFD SIP Updated Project Schedule, SFD SIP Regulatory Compliance and the Proposed Permitting Timeline, SFD SIP LAFCo Support Letter, SFD SIP Intake Design Modification – Yield Increase, SFD SIP Historical Low Reservoir Levels and Releases, SFD SIP Low Reservoir Levels and Modified Intake Elevations,



SFD SIP Projected Reservoir Siltation for High-Flow Intakes and Extraction Barrier and Brackish (EBB) Water Treatment Project – Phase 1 Memorandum of Agreement (MOA) (presentation attached).

During Dr. Brai's presentation regarding Santa Felicia Dam Safety Improvement Project Intake Design Modification – Yield Increase, slide seven, Chair Maulhardt suggested a graphic illustrating the motion of the water through the intake, perhaps in a three-dimensional form would better depict the process of the intake design to the public.

Dr. Bral explained that GEI Consultant's Inc. scope of work includes a threedimensional design currently under development.

Director Naumann had to excuse himself for an appointment at 10:45 a.m.

No further questions or comments.

## 4.3 Environmental Services Department Update

Environmental Services Manager Marissa Caringella presented Environmental Services department updates that included Santa Felicia Dam, Lake Piru, Middle Piru Creek, Freeman Diversion Operations and Training and Tour (presentation attached).

During slide one of the presentation Ms. Caringella had Mr. McEachron present state water imports.

No further questions or comments offered.

### 4.3 Operations and Maintenance Department Update

Interim Chief Operations Officer Clayton Strahan presented Operations and Maintenance department updates that covered Santa Felicia Dam, Freeman Diversion Maintenance, Saticoy Well Field, and the PTP System (presentation attached).

No further questions or comments offered.

Mr. Strahan verbally introduced the Operations and Maintenance Refined Valve Exercise Program.

The Committee then discussed revisions to the current system of reporting to the Committee and Board. Director Keeling suggested a chart reflecting approved and expected expenditures for current projects that are being presented to the Committee and Board. Streamlining Board approval process and efficient use of staff time for multiyear, and long-term projects was discussed, General Manager Mauricio Guardado suggested that staff meet to review policies and consider opportunities to streamline processes. Staff will conduct internal discussions and develop recommendations for the Committee and Board considerations.

No further questions or comments.

## 5 Future Agenda Items

None were offered.

No further questions or comments.

#### ADJOURNMENT 11:30 a.m.

Chair Maulhardt adjourned the meeting at 11:30 a.m.

I certify that the above is a true and correct copy of the minutes of the Engineering and Operations Committee Meeting held on December 7, 2023.

ATTEST:

Chair Lynn E. Maulhardt

#### **Regulatory and Environmental Compliance**

## Motion Item 3.1

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

Contract Amendment Fee: \$1,158,211



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#### Regulatory and Environmental Compliance

## **Motion Item 3.1**

- 1. Authorize Contract Amendment to address Design Modifications and Additional Analysis:
  - Increase Proposed High-Flow Intakes from 4 to 6 and Modify Elevation of Proposed Intakes – Enabling Operational Flexibility
  - BOC's Recommended Design Modifications and Additional Analysis -(BOC Meeting No. 7, June 21, 2023)
  - Develop Design Details and Alternative Means and Methods requested by BV – More Cost-Effective Construction Contract
  - Completion of Design PFMA FERC's Requirements
  - ❖ Additional Analysis to Support Environmental Documents



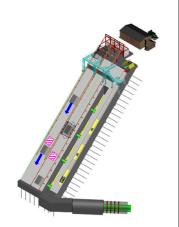
## **Regulatory and Environmental Compliance**

## **Motion Item 3.1**

- 2. Approval of Supplemental Appropriation due to insufficient funds in FY23/24 Budget
- 3. Approval of Fund Transfer from EPA WIFIA Design Loan to Support Supplemental Appropriation

## **Updated Contract Fee:**

Original Contract Amount: \$867,980 Contract Amendment Fee: \$1,158,211 Total Contract Fee to Date: \$2,026,191



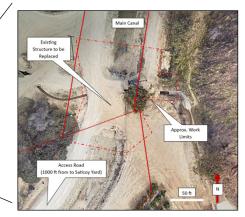


## Water Supply Reliability

## **Motion Item 3.2**

Resolution for Adoption of CEQA Notice of Exemption (NOE) for the Three Barrel Culvert Replacement (CIP 8018)

- ☐ Exempt under Section 15301 and Section 15302
- ☐ In support of the Freeman Conveyance System Upgrade Freeman to Ferro.
- Replacement of the Three Barrel Culvert will remove a restriction in the system and replace an aging facility.





## Water Supply Reliability

## **Motion Item 3.3**

Resolution for Adoption of CEQA Notice of Exemption (NOE) for the Inverted Siphon Replacement (CIP 8018)

- ☐ Exempt under Section 15301 and Section 15302
- ☐ In support of the Freeman Conveyance System Upgrade Freeman to Ferro.
- ☐ Replacement of the Inverted Siphon will provide positive drainage, remove a restriction in the system, and replace an aging facility.





## **Water Supply Reliability**

## Motion Item 3.4

Authorize Approval of a Contract with HDR Engineers, Inc. to Develop the Final Design of the Freeman Conveyance System Upgrade Project – Freeman to Ferro (CIP 8018)

- ☐ Final Design, Permit Support, and Bid Support for 3 5-ft diameter pipes from Noble to Ferro Basin
- ☐ HDR is the designer for the State Water Project Interconnection Project and is completing preliminary design of the Noble to Ferro connection.
- ☐ Contract Fee not to Exceed \$350,000
- ☐ Grant Funding: \$1M matching (IRWM)
- ☐ Sufficient funds available in the FY 2023/24 budget





#### Regulatory and Environmental Compliance

## Motion 3.5

# Authorize Approval of Amendment No. 8 to the Contract Cramer Fish Sciences for Services Related to Santa Felicia Dam Fish Passage Pre-implementation Studies

- Committee will consider recommending approval of the motion to the full Board to authorize the General Manager to execute an amendment to the professional consulting services agreement with Cramer Fish Sciences
- Contract is directly related to the FERC license compliance associated with the 2008 Biological Opinion from National Marine Fisheries Service
- Amendment amount: \$196,054



Engineering and Operations Committee Meeting Agenda Item 3.5

Request to consider recommending that the Board authorize the General Manager to execute a contract amendment with Cramer Fish Sciences to complete field work associated with their study plan regarding Santa Felicia fish passage pre-implementation studies in the amount of \$196,054

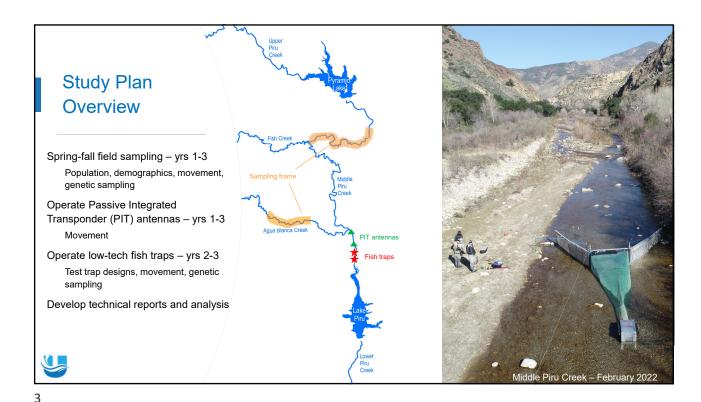
Project Background

• Stipulated a process for evaluating the feasibility of fish passage

2008 – NMFS Biological Opinion

• Identified "trap and haul" as potentially feasible, contingent upon resolving specific uncertainties

• Study plan designed to address uncertainties related to passage of downstream migrants





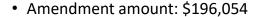
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#### Regulatory and Environmental Compliance

## Motion 3.5

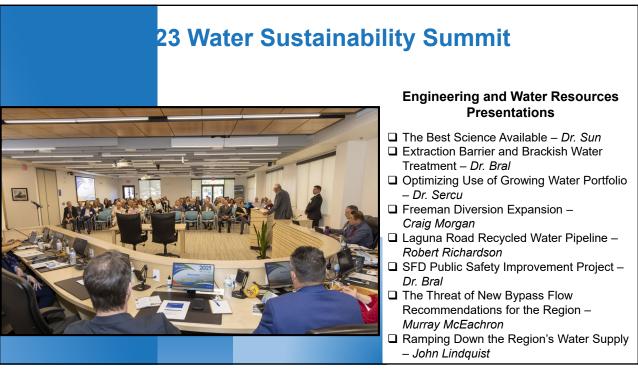
# Authorize Approval of Amendment No. 8 to the Contract Cramer Fish Sciences for Services Related to Santa Felicia Dam Fish Passage Pre-implementation Studies

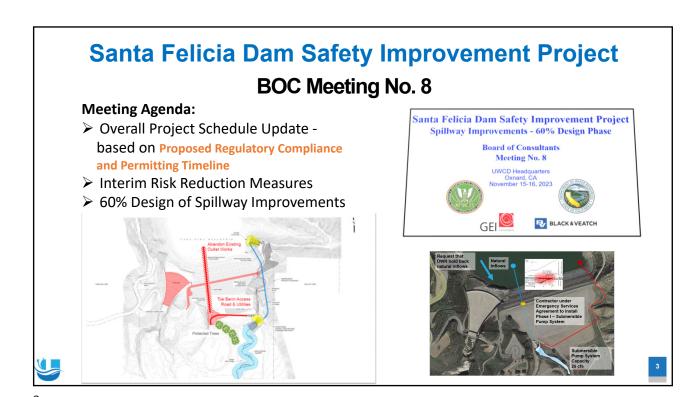
- Committee will consider recommending approval of the motion to the full Board to authorize the General Manager to execute an amendment to the professional consulting services agreement with Cramer Fish Sciences
- Contract is directly related to the FERC license compliance associated with the 2008 Biological Opinion from National Marine Fisheries Service; to complete the final phase of field studies



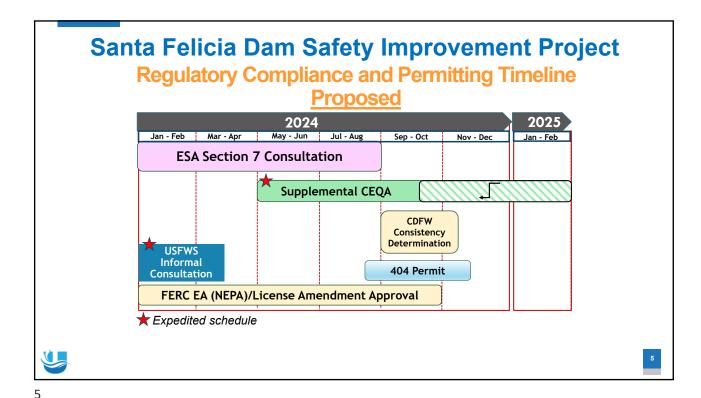






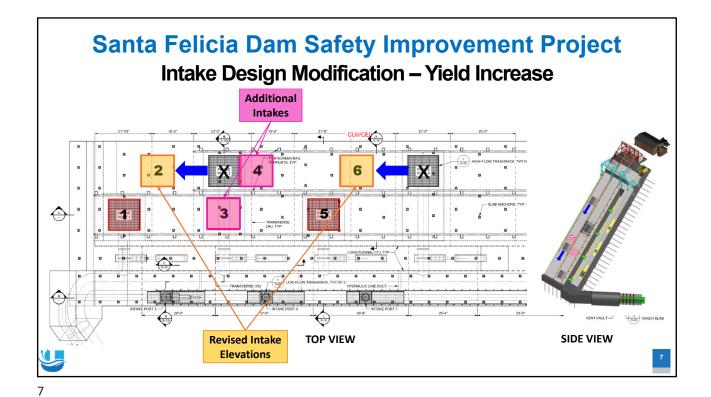


Santa Felicia Dam Safety Improvement Project **Updated Project Schedule** 2021 2022 2024 2025 2026 2027 2020 2023 01 02 03 04 01 02 0 Design New Works Startup/Test Design Spillway Improvements Construct Design Environ. Award Mitigation **BOC Meeting #8** Submitted to FERC and DSOD on October 31, 2023

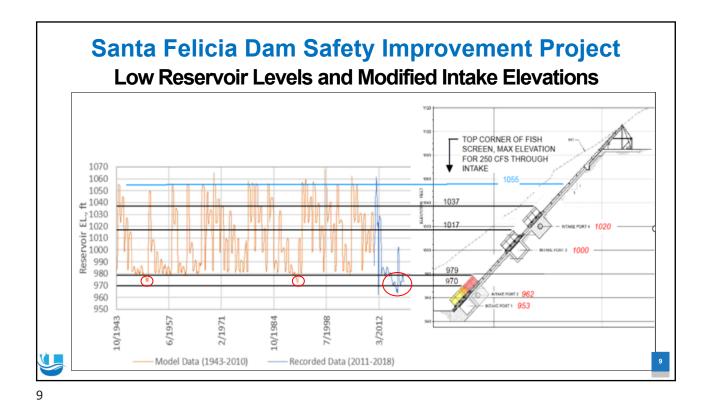




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Santa Felicia Dam Safety Improvement Project **Historical Low Reservoir Levels and Releases** Water Releases (>250 cfs) vs. Low Resevoir Level 992.0 700.00 990.0 600.00 988.0 986.0 984.0 400.00 VOIR I 982.0 980.0 250 cfs 978.0 200.00 976.0 100.00 972.0 13-May-1989 12-Mar-1991 31-Oct-1991 8-Oct-2003 14-Oct-2004 30-Oct-2007 18-Oct-2012 15-Jun-2017



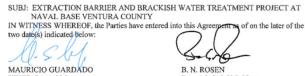
Santa Felicia Dam Safety Improvement Project **Projected Reservoir Siltation for High-Flow Intakes** Intake 6 1020 1016 Intake 5 1010 1000 Intake 4 Intake 3 990 Intake Elevation 980 980 Intake 2 970 Intake 1 960 930 920 2106 2153 2177 2224 Year Starting Year: 2020, latest bathymetric survey Sediment Elevation: 929.5 Approx. near dam Ave Rate/Year: 0.38 feet of sediment rise (1985-2020) New Intake Operation: 2030



## Memorandum of Agreement (MOA)



- Formalizes relationship between CNRSW, NBVC and UWCD for Phase 1
- Delineates roles and responsibilities
- Allows for MOA amendment as necessary
- Implementation may be affected by court rulings (i.e., OPV Coalition)



UWCD General Manager

Rear Admiral, U.S. Navy Commander, Navy Region Southwest

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## **EBB Water - Phase 1 MOA**

SURS: EXTRACTION BARBER AND BRACKISH WATER TREATMENT PROJECT AT NAVALL BASIS VINTURA COLONYY NAMED AND VINTURA COLONYY NEW Conyou Groundwater Management Agency, Superior Count of Stants Barbara, Case No. VPNC 100555578, [164] Lanc 18, [20] of and City of Ground's Pre Acceptor Groundwater Management Agency, Los Angelius Civatty Superior Court, Case, No. 20STCP09929, filed December 2, 2019.

Agreement/Understanding Responsibilities.
 CNRSW/NBVC will:

 Request approval to execute appropriate Real Estate agreements in support of the project per reference (g). Real estate and funding requirements will be outlined in a letter to UWCD upon receipt and approval of real estate requests processed by CNRSW/NBVC.

(2) Act as the Pederal local agency under NIPA for Plane I of EBB Water project, while recently includes forecasted as quested for Plane 2. Analyga might natiser expect (SMSI) to support UNCD steff with preparation of NIPA documentation. NIPA requirements will be provided to UNCD space anosoptions of one obstate required the SIPA step received to UNCD space anosoptions of one obstate required the SIPA step including an extra continuous provides to under the step of the step in the step of t

(3) Act as the lead agency for all federal consultations, have reviewing authority, control of aspects of environmental review, and compliance that affect CNRSW/NBVC or its operations

(4) Work directly with UWCD and the Fox Canyon Groundwater Management Agen CGMA) staff to assess requirements and allocations required for EBB Water project.

(5) Provide (as allowed by data security laws and requirements) previous studies, data, rveys, and other technical documentation that supports development of the EBB Water project.

(6) Lead all California Coastal Commission (CCC) communications, consultations, aplications, negotiations, and final regulatory decisions. CCC requested information, data, and scial studies will be provided to staff to facilitate the regulatory interactions.

(7) sign and process the intal retr-A document(s) per retremce (1) upon concurrence or cleral, relevant state and local regulators, CNRSW and Navy leadership, and receipt of all equired documents and permits.

monstary support) UWCD during project funding requests to federal, state, and local agencies.

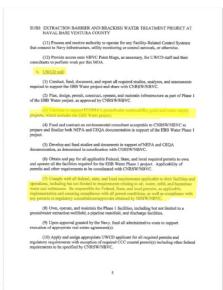
(9) Discover potential legacy contamination.

(10) Have final decision authority over all decisions that affect NBVC or its operations, including but not limited to location, identification, and approval for placement of infrastructure, mitigation or other changes, and engineering solutions to technical problems.

- CNRSW/NBVC will:
  - Execute appropriate real estate agreements
  - Act as Federal lead agency for NEPA and federal consultations
  - Work directly with UWCD and FCGMA to assess requirements and allocations required for the project
  - Lead all CA Coastal Commission Communications
  - Support UWCD in funding requests
  - Has final decision authority over all decisions that affect NBVC
  - · Provide access to UWCD staff

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## **EBB Water - Phase 1 MOA**



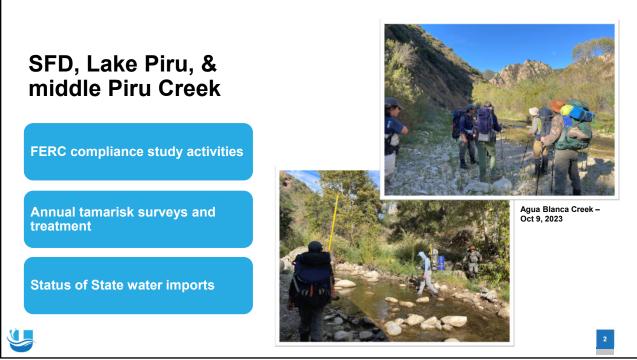
> UWCD will:

- Conduct, fund, document, and report all required studies and analyses
- Plan, design, permit, construct, operate, and maintain Phase 1 infrastructure
- Continue to support FCGMA's groundwater sustainability goals and water supply projects
- Fund and contract with environmental consultant acceptable to CNRSW/NBVC for NEPA/CEQA documentation
- Comply with all federal, state and local requirements
- Fund Navy's administrative costs to support execution of real estate agreement











**Cowbird trapping annual report** 

Support for O&M maintenance activities

MSHCP to be submitted Feb 9, 2024









Freeman Diversion - Nov 6, 2023

## **Training and Tour**

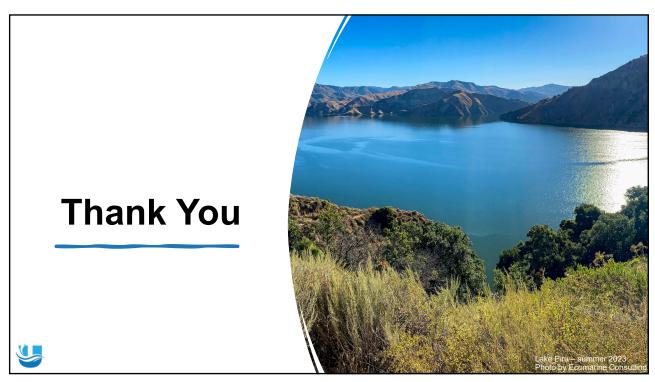


October Environmental Services staff quagga mussel and veliger training workshop



November tour of the Casitas Robles Diversion facility and fish ladder







Santa Felicia Dam

Fugro Bathymetric Survey – Lake Pyramid Inflow – Marina Anchor Adjustments – Wind Damage – SFD Water Releases

