

ENGINEERING and OPERATIONS
COMMITTEE MEETING
MINUTES

Thursday, January 4, 2024, at 9:30 a.m.
UWCD Headquarters, First Floor, Board Room
1701 N. Lombard Street, Oxnard, CA 93030

COMMITTEE MEMBERS IN ATTENDANCE

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

STAFF IN ATTENDANCE

Mauricio Guardado, general manager
Anthony Emmert, assistant general manager
Dr. Maryam Bral, chief engineer
Marissa Caringella, environmental services manager
Clayton Strahan, interim chief operations officer
John Lindquist, water resources supervisor
JD Smallwood, water treatment supervisor
Murray McEachron, hydrologist supervisor
Craig Morgan, engineering manager
Robert Richardson, principal engineer
Vanessa Vasquez, clerk of the committee

PUBLIC IN ATTENDANCE

No members of the public in attendance.

Call to Order – Open Session

Chair Maulhardt called the committee meeting to order at 9:30 a.m. The clerk of the Committee called roll. Two Committee members were present (Maulhardt and Keeling). Director Naumann arrived a minute later at 9:31 a.m.

1. Public Comments
Information Item

Chair Maulhardt asked for public comment. None were offered.

2. Approval of Minutes
Motion

Motion to approve the Minutes from December 7, 2023, Engineering and Operations Committee meeting, Director Keeling; Second, Maulhardt. Voice vote: three ayes (Naumann, Maulhardt and Keeling); none opposed. Motion carries 3/0/0.



3. January 10, 2024, Board Meeting Motion Agenda Item

The Committee reviewed and discussed the following motion item to formulate recommendations to the full Board at its January 10, 2024, meeting.

3.1 Recommend the Authorization of a Supplemental Appropriation of Funds for the Freeman Diversion Expansion Project (CIP 8001), Authorize Approval of a Contract with GEI Consultants, Inc. for the Hardened Ramp 90% Design (Engineering Department, Craig Morgan) (presentation attached).

The Committee members asked for clarification regarding the amount of additional appropriation being requested. Engineering Manager Craig Morgan explained that a supplemental appropriation in the amount of 2.1 million dollars is being requested that would cover the 1,999,810 dollars for the GEI Consultants, Inc. contract, 90,000 dollars from the Northwest Hydraulic Consultants (NHC) Design Contract, and 10,190 dollars for special advisor time. The committee members requested a breakdown of the amounts be shown in an additional slide so that the amount being requested is easily understood.

When requesting funding, the Committee members asked staff to include a standard table in the committee packet that includes costs for each project phase and totals for overall project cost. The slides being presented should have clear labeling using key words, such as federally mandated to make constituents aware of the District's obligation to fulfill such requirements.

Chair Maulhardt asked for public comment, none offered.

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

4. Monthly Department Updates
Information Item

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

4.1 Engineering Department Update

Dr. Maryam Bral presented department updates that included a 2023 Accomplishments Recap (CIP Projects) that covered Santa Felicia Dam (SFD), Letters of Support to FERC, SFD Emergency Action Plan, SFD End of Year Reporting to FERC, Oxnard- Hueneme Pipeline (OHP), Iron and Manganese Treatment Facility, Ribbon Cutting Ceremony, Well Replacement Program, Oxnard- Hueneme (OH) Water Well No. 20, OH Well 14 Energy Efficiency



Upgrades, Extraction Barrier and Brackish (EBB) Water Treatment Project, PTP Metering Improvement, PTP Recycled Water Connection – Laguna Road Pipeline, Condor Point Improvement – Swim Beach, Lake Piru Recreation Area Pavement Maintenance Program, Public Outreach including Key Presentations, Site Tours and a Look Ahead on Key and Critical Projects timeline, total costs, expenditures to date.

Director Naumann requested that Dr. Bral provide the sum of project costs in her presentation along with a footnote on the District's track record in receiving grants. The Committee agreed staff should label projects with color coordinating labels to identify whether they are mission based or federally regulated projects.

No further questions or comments.

4.2 Environmental Services Department Update

Environmental Services Manager Marissa Caringella presented Environmental Services department updates that included 2023 highlights covering Santa Felicia Dam and Lake Piru Recreation Area, Freeman Diversion and Districtwide Support. (presentation attached).

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 the South Fire at the Freeman Diversion, Saticoy Facility, Santa Felicia Dam and Lake Piru, El Rio Water Treatment Plant and the OH system. (presentation attached).

During Mr. Strahan's presentation on the south brush fire that occurred at Freeman Diversion the committee discussed preventative measures to protect District facilities and staff.

The following suggestions were made:

- On-Call Services Agreements with contractors that could be on standby
- Perimeter sprinklers
- 170-gallon tank available for use on site that could be utilized for the sprinkler system
- Attaching a booster pump to transfer water to a sprinkler system if installed

Director Keeling extended the Board's appreciation to staff for their bravery and efforts in combating the fire.



No further questions or comments.

5. Future Agenda Items

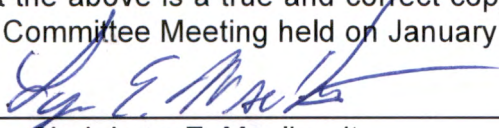
None offered.

ADJOURNMENT 11:01 a.m.

Chair Maulhardt adjourned the meeting at 11:01 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 January 4, 2024.

ATTEST:




Chair Lynn E. Maulhardt

Water Supply & Regulatory and Environmental Compliance

Motion Item 3.1

Authorization of a Supplemental Appropriation of \$2,100,000 for the Freeman Diversion Expansion Project (CIP 8001), and authorize approval of a contract with GEI Consultants, Inc. for the Hardened Ramp 90% Design



1

Water Supply & Regulatory and Environmental Compliance

Motion Item 3.1

1. Approval of Supplemental Appropriation due to insufficient funds in FY23/24 Budget

❖ On July 18, 2023, a joint stipulated order was written and delivered to the Federal Court. This joint stipulated order highlighted the selected fish passage alternative and called for the immediate forwarding of the design. United’s FY 2023-2024 budget had already been finalized and this accelerated schedule was not included.

❖ The supplemental appropriation would be funded from the Replacement, Capital Improvement and Environmental project reserves.

❖ Breakdown of \$2,100,000:


❖ GEI Consultants, Inc. design contract, \$1,999,810

❖ NHC design contract, \$90,000

❖ Staff time, special advisor time, \$10,190

2. Authorize the execution of a Contract for the Hardened Ramp 90% Design:

❖ Federal Court mandated completion date of June 10, 2024



2

Water Supply & Regulatory and Environmental Compliance

Motion Item 3.1


Updated GEI Contract Fee:

| | |
|------------------------------------|--------------------|
| 60% Design Contract Amount: | \$1,752,670 |
| <u>90% Design Contract Amount:</u> | <u>\$1,999,810</u> |
| Total Contract Fee to Date: | \$3,752,480 |

Updated NHC Contract Fee:

| | |
|------------------------------------|-----------------|
| 60% Design Contract Amount: | \$343,490 |
| <u>90% Design Contract Amount:</u> | <u>\$90,000</u> |
| Total Contract Fee to Date: | \$433,490 |





ENGINEERING DEPARTMENT

Monthly Update - 2023 Accomplishments Recap

January 4, 2024

1



2023 Accomplishments Recap (CIP Projects)



2

2

Santa Felicia Dam Safety Improvement Project

- ✓ 90% Design of new Outlet Works
- ✓ 60% Design of Spillway Improvements
- ✓ 60% Design of Environ. Mitigation
- ✓ Two BOC Meetings
- ✓ BV was retained to provide CM and Inspection Services for the Outlet Works
- ✓ Revised Draft BA to initiate formal ESA Section 7 consultation with NMFS
- ✓ Revised EA to initiate FERC NEPA Process
- ✓ Community Support



BOC Meeting No. 7

**Santa Felicia Dam Safety Improvement Project
Spillway Improvements - 60% Design Phase**

**Board of Consultants
Meeting No. 8**

UWCD Headquarters
Oxnard, CA
November 15-16, 2023



Letters of Support to FERC

[illegible]

SFD Emergency Action Plan



Functional Exercise – February 2023



Dam Safety Hands-On Training – October 2023



5

5



Santa Felicia Dam End of Year Reporting to FERC

- ✓ Annual Security Compliance Certification (ASCC)
- ✓ SFD EAP Status Report
- ✓ SFD Dam Safety and Surveillance and Monitoring Report (DSSMR)
- ✓ Owner Dam Safety Plan and Schedule (ODSP)

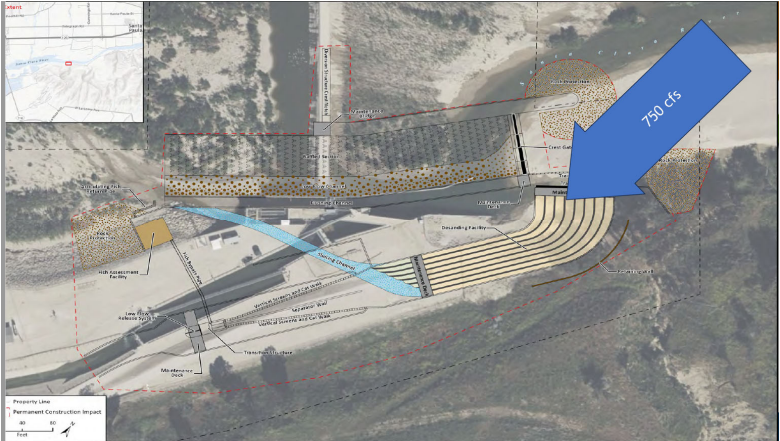
- ✓ SFD EAP Call-Down Drill report to CalOES




6

6

Freeman Diversion Expansion

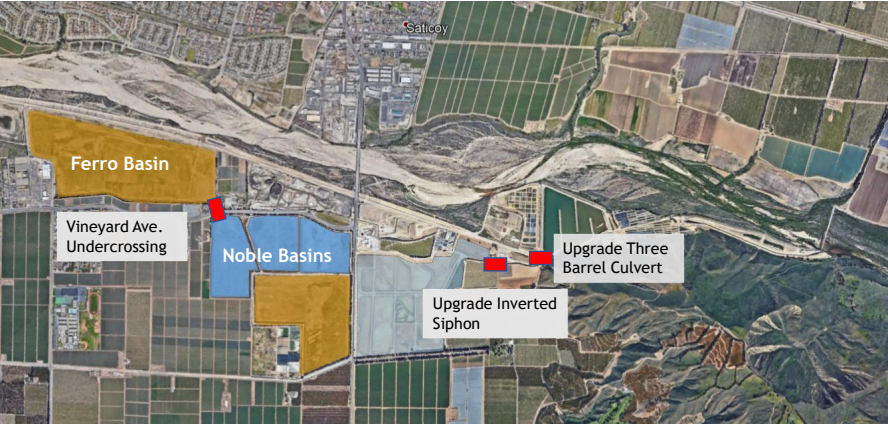


- ✓ Selected Fish Passage Alternative
- ✓ Advanced the 60% Design of Hardened Ramp




7

Freeman Conveyance System Upgrade



- ✓ Three Barrel Culvert – Completed 90% design upgrade, reinitiated the permit process with Ventura County Watershed Protection
- ✓ Inverted Siphon – Completed 100% Design and Released Bid Packet
- ✓ Vineyard Undercrossing – Completed Preliminary Design Report



8

OHP Iron and Manganese Treatment Facility



March 2023



December 2023

- ✓ Substantial Completion of Construction Phase
- ✓ Successful 96-Hr Continuous Test with Iron and Manganese non-detect in Filtered Water



Ribbon Cutting Ceremony

September 2023



March - District Open House Event



April - OLDCC Site Visit



July - Tour to City of Santa Paula



Well Replacement Program OH Water Well No. 20





Drilling for New OH Well No. 20



Original OH Well No.5

11

OH Well 14 Energy Efficiency Upgrades

Reduce Energy Demand at 3500 gpm supply to El Rio WTP.

- Discharge pipe replacement (12" to new 18")
- Rehabilitation of well, pump, and motor

✓ Consultant Selection



- Design Fee: \$219,610
- Design Completion: September 2024
- Bid Award and Construction: 12-18 months (by March 2026)







12

EBB Water


- ✓ EBB Water – Phase 1 was selected for \$8.4 million grant funding by SWRCB
- ✓ Phase 1 A License Agreement
- ✓ Letter of Request was submitted to the Navy
- ✓ Memorandum of Agreement (MOA)
- ✓ Design of Discharge Alternatives
- ✓ Design of Piping Alignment
- ✓ Design of new Monitoring Wells
- ✓ Project Description as Part of CEQA
- ✓ NEPA process initiated




March – Two-Day Permitting Charrette with the US Navy Staff and Counsel



April – OLDCC and United Site Tour, Greeting Capt. Kinnach III at Pt Mugu

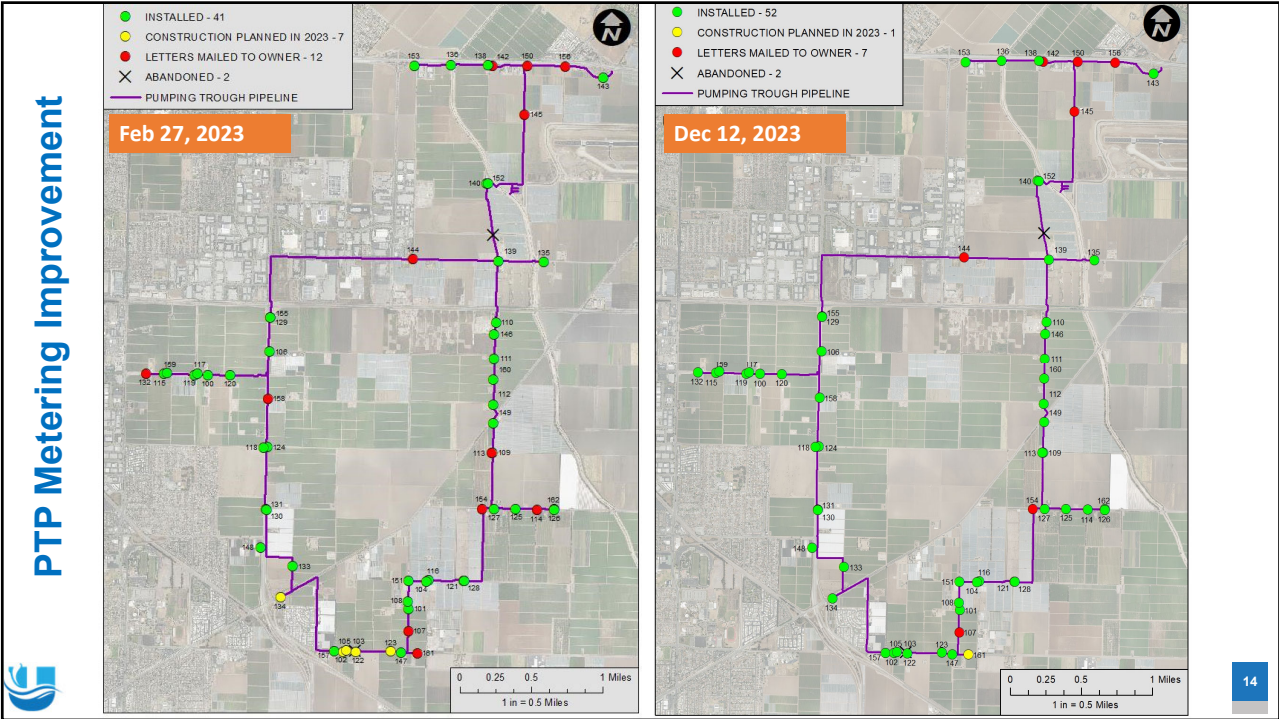


March Mauricio and Robert attended LAFCO Board Meeting



13

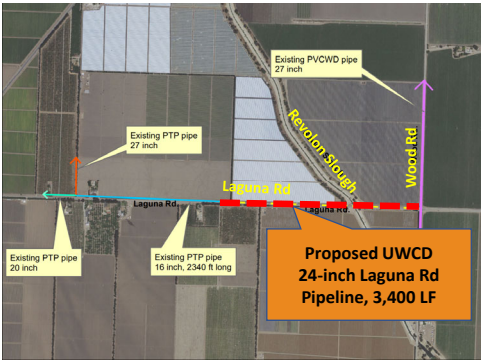
13




14

PTP Recycled Water Connection – Laguna Road Pipeline

- ✓ Developed draft Recycled Water Delivery Agreement with PVCWD
- ✓ Completed Preliminary Design Report





15

15

Condor Point Improvement - Swim Beach



Original Condor Point Swim Beach

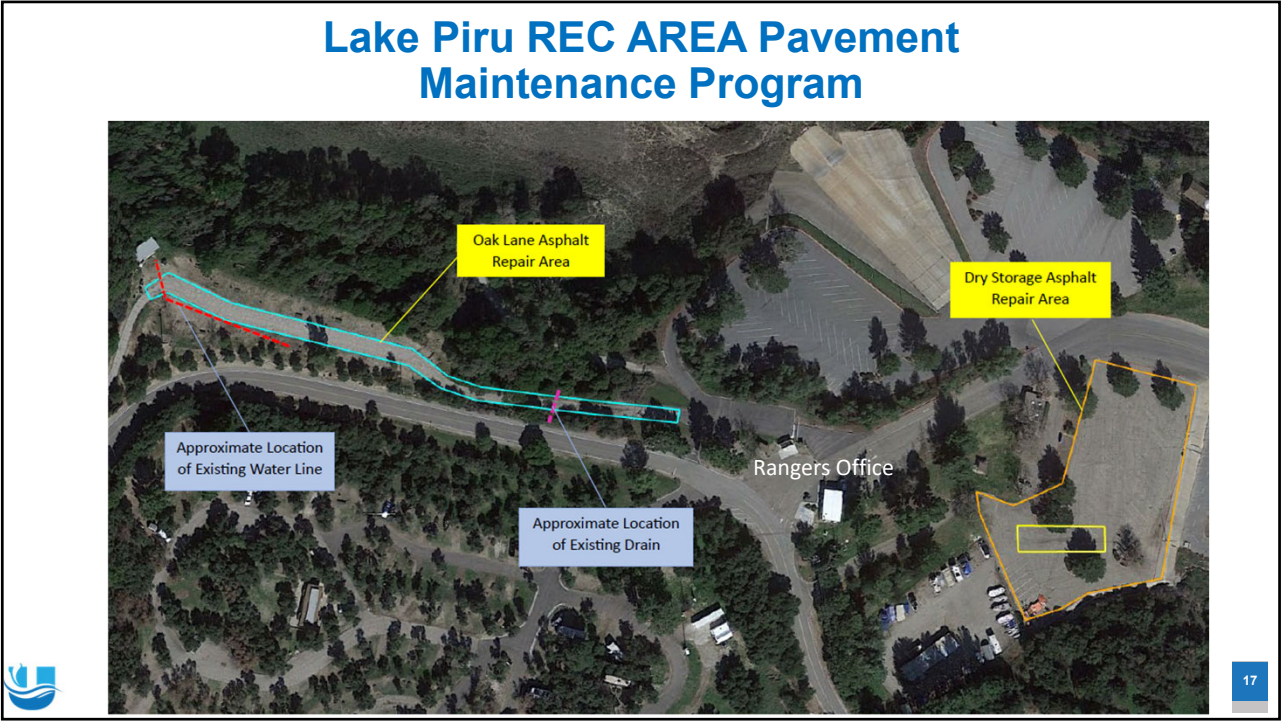


Substantially Complete Plant on December 27, 2023

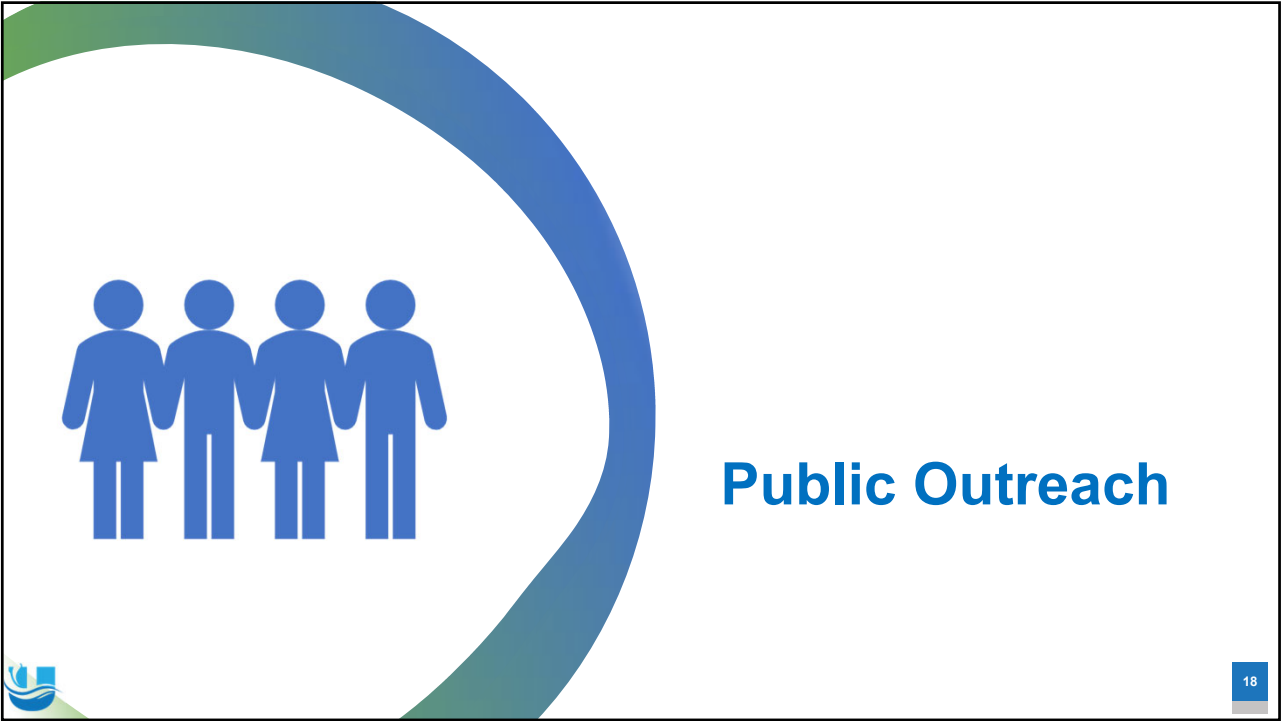


16

16



17



18

Key Presentations



2023 Oxnard-Ventura Post Business Opportunities Forum




2023 Water Sustainability Summit




2023 CalDesal Conference

19


Site Tours




North Pleasant Valley Groundwater Desalter - Camarillo



Newark Desalination Facility & Aquifer Reclamation Wells



Charles E. Meyer Desalination Plant – City of Santa Barbara



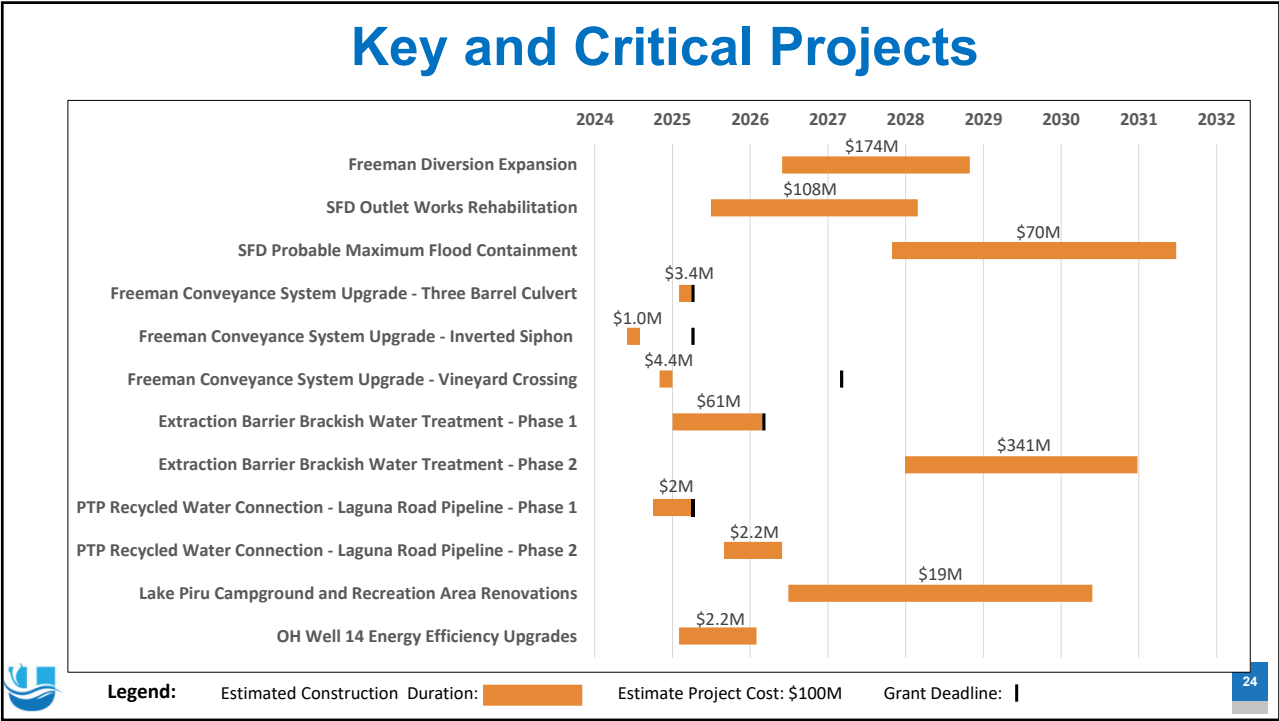
Perris II Desalter Tour of EMWD Desalination Complex

20



| Key and Critical Projects | | | | | |
|---------------------------|--|-------------------|-----------------|------------------------------|-----------------------------------|
| Progress and Schedule | | | | | |
| CIP No. | Project Name | Planning Progress | Design Progress | Estimated Construction Start | Estimated Construction Completion |
| 8001 | Freeman Diversion Expansion | <div></div> | <div></div> | Jun, 2026 | Nov, 2028 |
| 8002 | SFD Outlet Works Rehabilitation | <div></div> | <div></div> | Jul, 2025 | Mar, 2028 |
| 8003 | SFD Probable Maximum Flood Containment | <div></div> | <div></div> | Nov, 2027 | Jul, 2031 |
| 8018a | Freeman Conveyance System Upgrade - Three Barrel Culvert | <div></div> | <div></div> | Feb, 2025 | Mar, 2025 |
| 8018b | Freeman Conveyance System Upgrade - Inverted Siphon | <div></div> | <div></div> | Jun, 2024 | Aug, 2024 |
| 8018c | Freeman Conveyance System Upgrade - Vineyard Crossing | <div></div> | <div></div> | Nov, 2024 | Jan, 2025 |
| 8019a | Extraction Barrier Brackish Water Treatment - Phase 1 | <div></div> | <div></div> | Jan, 2025 | Feb, 2026 |
| 8019b | Extraction Barrier Brackish Water Treatment - Phase 2 | <div></div> | <div></div> | Jan, 2028 | Dec, 2030 |
| 8043a | PTP Recycled Water Connection - Laguna Road Pipeline - Phase 1 | <div></div> | <div></div> | Oct, 2024 | Mar, 2025 |
| 8043b | PTP Recycled Water Connection - Laguna Road Pipeline - Phase 2 | <div></div> | <div></div> | Sep, 2025 | Jun, 2026 |
| 8055 | Lake Piru Campground and Recreation Area Renovations | <div></div> | <div></div> | Jul, 2026 | Jun, 2030 |
| 8060 | OH Well 14 Energy Efficiency Upgrades | <div></div> | <div></div> | Feb, 2025 | Feb, 2026 |

| Key and Critical Projects | | | | | |
|---------------------------|--|----------------------|---------------|---------------|----------------|
| Cost and Funding | | | | | |
| CIP No. | Project Name | Total Estimated Cost | Spent To Date | Grant Funding | Grant Deadline |
| 8001 | Freeman Diversion Expansion | \$174M | \$13M | | |
| 8002 | SFD Outlet Works Rehabilitation | \$108M | \$8M | | |
| 8003 | SFD Probable Maximum Flood Containment | \$70M | \$5M | | |
| 8018a | Freeman Conveyance System Upgrade - Three Barrel Culvert | \$3.4M | \$0.1M | \$1.3M | Mar, 2025 |
| 8018b | Freeman Conveyance System Upgrade - Inverted Siphon | \$1.0M | \$0.1M | \$1.3M | Mar, 2025 |
| 8018c | Freeman Conveyance System Upgrade - Vineyard Crossing | \$4.4M | \$0.1M | \$1.0M | Mar, 2027 |
| 8019a | Extraction Barrier Brackish Water Treatment - Phase 1 | \$61M | \$2M | \$8.4M | Feb, 2026 |
| 8019b | Extraction Barrier Brackish Water Treatment - Phase 2 | \$341M | 0 | | |
| 8043a | PTP Recycled Water Connection - Laguna Road Pipeline - Phase 1 | \$1.9M | \$0.2M | \$3.0M | Mar, 2025 |
| 8043b | PTP Recycled Water Connection - Laguna Road Pipeline - Phase 2 | \$2.2M | \$0.0M | | |
| 8055 | Lake Piru Campground and Recreation Area Renovations | \$19M | \$0.2M | | |
| 8060 | OH Well 14 Energy Efficiency Upgrades | \$2.2M | 0 | | |







1

2023

SANTA FELICIA DAM AND LAKE PIRU RECREATION AREA

- Increased State Water Imports: CEQA suspension & DWR FERC license variance
- January storms: secured permits for emergency work & supported FEMA process
- Kicked off final year of middle Piru Creek fish passage feasibility study
- Continued all other FERC compliance activities & met all annual reporting deadlines
- Submitted revised SFDSIP draft BA to FERC to initiate ESA Section 7 consultation with NMFS

FREEMAN DIVERSION

- Updated the MSHCP & EIR for hardened ramp fish passage project (due Feb 9)
- Coordinated sediment & habitat monitoring studies to support operations & MSHCP
- Reviewed & notified the agencies of 25 recorded upstream fish ladder detections
- Supported O&M in an unprecedented season of diversions & operations including 88 flushes

DISTRICTWIDE SUPPORT

- Prepared & filed six CEQA NOEs
- Led CEQA & NEPA coordination for the EBB project
- Expanded lower system quagga monitoring in response to water year needs
- Applied for multiple federal & state permits for operational needs at SFD & Freeman Diversion
- Participated in Grant Task Force

2



1



2



Saticoy Facility

3 Barrel Brush Removal – J Pond Scraping – Can-Am Spraying Operations



3

3



Santa Felicia Dam and Lake Piru

Cal OES / FEMA Marina Inspection – Condor Point Store Construction – Monthly Dam Inspection – Continuous Anchor Movement Due to Storm / Water Purchase Inflows



4

4



El Rio Water Treatment Plant

Vault Installation For 42" OH Pipeline – SWRCB Tri-Annual Sanitary Survey of El Rio Treatment Infrastructure



5



OH System

In-House Discharge Piping Installation at New OH Well 20



6

