



AGENDA
REGULAR MEETING OF THE BOARD OF DIRECTORS
District Board Room, 2890 Mosquito Road, Placerville, California
February 13, 2023 — 9:00 A.M.

Board of Directors

Brian K. Veerkamp—Division 3
President

Alan Day—Division 5
Vice President

George Osborne—Division 1
Director

Pat Dwyer—Division 2
Director

Lori Anzini—Division 4
Director

Executive Staff

Jim Abercrombie
General Manager

Brian D. Poulsen, Jr.
General Counsel

Jennifer Sullivan
Clerk to the Board

Jesse Saich
Communications

Brian Mueller
Engineering

Jamie Bandy
Finance

Jose Perez
Human Resources

Tim Ranstrom
Information Technology

Dan Corcoran
Operations

PUBLIC COMMENT: Anyone wishing to comment about items not on the Agenda may do so during the public comment period. Those wishing to comment about items on the Agenda may do so when that item is heard and when the Board calls for public comment. Public comments are limited to five minutes per person.

PUBLIC RECORDS DISTRIBUTED LESS THAN 72 HOURS BEFORE A MEETING: Any writing that is a public record and is distributed to all or a majority of the Board of Directors less than 72 hours before a meeting shall be available for immediate public inspection in the office of the Clerk to the Board at the address shown above. Public records distributed during the meeting shall be made available at the meeting.

AMERICANS WITH DISABILITIES ACT: In accordance with the Americans with Disabilities Act (ADA) and California law, it is the policy of El Dorado Irrigation District to offer its public programs, services, and meetings in a manner that is readily accessible to everyone, including individuals with disabilities. If you are a person with a disability and require information or materials in an appropriate alternative format; or if you require any other accommodation for this meeting, please contact the EID ADA coordinator at 530-642-4045 or email at adacoordinator@eid.org at least 72 hours prior to the meeting. Advance notification within this guideline will enable the District to make reasonable accommodations to ensure accessibility.

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Click the following join link or copy and paste into your browser <https://zoom.us/j/94563608941>.

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CALL TO ORDER

Roll Call
Pledge of Allegiance
Moment of Silence

ADOPT AGENDA

COMMUNICATIONS

General Manager's Employee Recognition

PUBLIC COMMENT

COMMUNICATIONS

General Manager

Brief reports on District activities or items of interest to the public, including activities or developments that occur after the agenda is posted.

Clerk to the Board

Board of Directors

Brief reports on community activities, meetings, conferences and seminars attended by the Directors of interest to the District and the public.

APPROVE CONSENT CALENDAR

Action on items pulled from the Consent Calendar

CONSENT CALENDAR

1. Clerk to the Board (Sullivan)

Consider approving the minutes of the January 23, 2023 regular meeting of the Board of Directors.

Option 1: Approve as submitted.

Option 2: Take other action as directed by the Board.

Option 3: Take no action.

Recommended Action: Option 1.

2. Office of the General Manager (Abercrombie)

Consider ratifying Resolution No. 2022-001 to maintain an ongoing emergency declaration related to the Caldor Fire.

Option 1: Ratify Resolution No. 2022-001 to maintain an ongoing emergency declaration related to the Caldor Fire.

Option 2: Take other action as directed by the Board.

Option 3: Take no action.

Recommended Action: Option 1.

3. Engineering (Money/Deason)

Consider authorizing additional funding in the amounts of \$14,877 for Pacific Gas and Electric electrical service upgrades and \$10,000 for capitalized labor for a total funding request of \$24,877 for the Diversion Facility Upgrades Project, Project No. 21008.01; \$20,000 for consulting services for Federal Energy Regulatory Commission (FERC) C44 Noxious Weed Monitoring, Project No. 08025H; \$30,000 in capitalized labor for FERC C38 Adaptive Management, Project No. 07011H; \$25,000 for consulting services and \$10,000 in capitalized labor for a total funding request of \$35,000 for FERC C37.8 Water Temperature Monitoring, Project No. 06021H; \$15,000 for consulting services for FERC C37.3 Amphibian Monitoring, Project No. 06089H; and \$5,000 for consulting services for FERC C33 Lake Aloha Trout Removal, Project No. 06086H.

Option 1: Authorize additional funding in the amounts of \$14,877 for Pacific Gas and Electric electrical service upgrades and \$10,000 for capitalized labor for a total funding request of \$24,877 for the Diversion Facility Upgrades Project, Project No. 21008.01; \$20,000 for consulting services for Federal Energy Regulatory Commission (FERC) C44 Noxious Weed Monitoring, Project No. 08025H; \$30,000 in capitalized labor for FERC C38 Adaptive Management, Project No. 07011H; \$25,000 for consulting services and \$10,000 in capitalized labor for a total funding request of \$35,000 for FERC C37.8 Water Temperature Monitoring, Project No. 06021H; \$15,000 for consulting services for FERC C37.3 Amphibian Monitoring, Project No. 06089H; and \$5,000 for consulting services for FERC C33 Lake Aloha Trout Removal, Project No. 06086H.

Option 2: Take other action as directed by the Board.

Option 3: Take no action.

Recommended Action: Option 1.

4. Operations (Certiberi/Heape)

Consider authorizing additional funding in the amounts of \$70,000 for consulting services and \$10,000 in capitalized labor for a total funding request of \$80,000 for Federal Energy Regulatory Commission (FERC) C46-49 Recreation Resource Management, Project No. 06098H; \$45,334 for annual payments to the U.S. Forest Service (USFS) and \$5,000 in capitalized labor for a total funding request of \$50,334 for FERC C51.5 and C51.7 Recreation Management USFS Payments, Project No. 07006H; \$10,000 for capitalized labor for FERC C51.2 Recreation Management Caples Boat Launch, Project No. 10007; and \$50,000 for capitalized labor for FERC C15 Pesticide Use, Project No. 07010H.

Option 1: Authorize additional funding in the amounts of \$70,000 for consulting services and \$10,000 in capitalized labor for a total funding request of \$80,000 for Federal Energy Regulatory Commission (FERC) C46-49 Recreation Resource Management, Project No. 06098H; \$45,334 for annual payments to the U.S. Forest Service (USFS) and \$5,000 in capitalized labor for a total funding request of \$50,334 for FERC C51.5 and C51.7 Recreation Management USFS Payments, Project No. 07006H; \$10,000 for capitalized labor for FERC C51.2 Recreation Management Caples Boat Launch, Project No. 10007; and \$50,000 for capitalized labor for FERC C15 Pesticide Use, Project No. 07010H.

Option 2: Take other action as directed by the Board.

Option 3: Take no action.

Recommended Action: Option 1.

END OF CONSENT CALENDAR

INFORMATION ITEMS

5. Operations/Engineering (Wilson/Delongchamp)

Overview regarding condition of District storage reservoirs and tanks.

Recommended Action: None – Information only.

6. Operations /Engineering (Corcoran/Deason)

Review of 2022 temporary water transfer proposals and implementation.

Recommended Action: None – Information only.

ACTION ITEMS

7. Finance (Bandy)

Consider ratifying EID General Warrant Registers for the periods ending January 17, January 24 and January 31, 2023, and Employee Expense Reimbursements for these periods.

Option 1: Ratify the EID General Warrant Registers and Employee Expense Reimbursements as submitted.

Option 2: Take other action as directed by the Board.

Option 3: Take no action.

Recommended Action: Option 1.

8. Operations (Russell)

Consider authorizing funding in the amounts of \$2,109,000 for capitalized labor, \$869,358 for asphalt patch paving, \$537,346 for materials and supplies, \$343,672 for sand and gravel, \$104,038 for compaction testing and El Dorado County inspections and \$286,586 for concrete remediation services for a total funding request of \$4,250,000 for the Service Line Replacement, Project No. 23002.01.

Option 1: Authorize funding in the amounts of \$2,109,000 for capitalized labor, \$869,358 for asphalt patch paving, \$537,346 for materials and supplies, \$343,672 for sand and gravel, \$104,038 for compaction testing and El Dorado County inspections, and \$286,586 for concrete remediation services for a total funding request of \$4,250,000 for the Service Line Replacement, Project No. 23002.01.

Option 2: Take other action as directed by the Board.

Option 3: Take no action.

Recommended Action: Option 1.

9. Engineering (Money)

Consider approving a contract amendment to Water Work Engineers, Inc. in the not-to-exceed amount of \$370,094 for design of the Sly Park Intertie Improvements and authorize additional funding of \$370,094 for the Sly Park Intertie Improvements Project, Project No. 21079.

Option 1: Approve a contract amendment to Water Work Engineers, Inc. in the not-to-exceed amount of \$370,094 for design of the Sly Park Intertie Improvements and authorize additional funding of \$370,094 for the Sly Park Intertie Improvements Project, Project No. 21079.

Option 2: Take other action as directed by the Board.

Option 3: Take no action.

Recommended Action: Option 1.

CLOSED SESSION

A. Conference with Real Property Negotiators (Poulsen)

Government Code Section 54956.8: Property: Assessor's Parcel Nos. 126-040-019, 069-060-070, 105-210-030, 089-110-015, 098-070-035, 077-011-002, 076-180-023, 077-101-001, 042-365-002, 042-365-004, 042-011-019, 042-030-005, 042-030-014, 042-021-028, 101-141-036, 101-330-001, 101-330-011, 101-030-050, 012-110-038, 039-080-003, 026-030-004, 125-263-009, 051-481-075

District negotiators: General Manager, General Counsel; Senior Deputy General Counsel

Under negotiation: price and terms of payment for purchase, sale, exchange or lease

Negotiating parties: any interested party

REVIEW OF ASSIGNMENTS

ADJOURNMENT

TENTATIVELY SCHEDULED ITEMS FOR FUTURE MEETINGS

Engineering

- El Dorado Hills Wastewater Treatment Plant filter rehabilitation design and equipment pre-purchase contract, Action, February 27 (Eden-Bishop)

Finance

- 4th Quarter 2022 Investment Report, Consent, February 27 (Bandy)
- Fleet tire contract, Consent, February 27 (Royal)

Human Resources

- Revised Employee Handbook, Consent, February 27 (Perez)

Operations

- Lift station emergency bypass pump purchase, Consent, February 27 (Crane)

EL DORADO IRRIGATION DISTRICT
February 13, 2023

General Manager Communications

Awards and Recognitions

- a) The District received an email from EID customers Debi and Chuck Shaeffer, complimenting John Chavers, Collection System Supervisor. They wrote, “I would just like to say THANK YOU! I really appreciate how promptly this request was addressed, and the inspector I met a few days earlier was very friendly and he followed up, as promised... Mr. and Ms. Shaeffer also wrote “Also, please let the folks who publish “The Waterfront” newsletter know that the March-April 2022 issue was instrumental in making this happen...”

Staff Reports and Updates

- a) Water Loss Reduction from Upper Main Ditch Piping Project
- b) Diamond Springs Transmission Main Outages

General Manager Communications

February 13, 2023

Water Loss Reduction from Upper Main Ditch Piping Project

The Upper Main Ditch Piping Project was completed in 2022. The piping project converted the prior water conveyance through the open and unlined Upper Main Ditch, to a secure raw water transmission pipeline. EID began conserving water on May 10, 2022 when operation of the new pipeline started, and for the first time water was conveyed from Forebay Reservoir to the Reservoir 1 Water Treatment Plant via pipeline instead of open ditch.

The annual amount of conserved water saved with completion of the piping project is dependent on the operation of Reservoir 1 Water Treatment Plant. Using historical gage data from the Main Ditch prior to piping, EID developed a methodology to calculate the amount of water loss that historically occurred in the Main Ditch due to seepage and evapotranspiration. The amount of water conserved from the piping project is calculated by the amount of water entering the new pipeline and calculating the amount of water that would have been lost through the Main Ditch prior to the piping project. This calculation provides the amount of water conserved from the piping project, at particular flows and seasons. It was estimated that the amount of water savings following completion of the project would be up to 2,000 acre-feet (AF) per calendar year, with an average water savings of 1,800 AF per year depending on operation of the Reservoir 1 Water Treatment Plant.

The calculated amount of water conserved during 2022 operations of the Reservoir 1 Water Treatment Plant from May 10 – October 26, 2022 was 1,165 AF. The operational period of the new pipeline was limited during the 2022 water year due to the extended reconstruction timeline of conveyance facilities damaged during the Caldor Fire.

The Board adopted a resolution in 2022 recognizing the conserved water that would result from implementing the piping project and declaring its intention to retain control and ownership of such water for its intended use as it sought fit.

In addition to water loss reduction, another objective of the project was improved source water quality. This proved pivotal during the recent extreme New Year's storms when significant runoff affected Jenkinson Lake and the Reservoir A Water Treatment Plant (WTP). The Reservoir 1 WTP, with improved water quality from Forebay, was quickly brought online providing clean, safe drinking water to our customers until water quality (turbidity levels) in Jenkinson Lake improved. This quick response would not have been possible without the piping project due to storm water quality as well as anticipated debris within the ditch.

General Manager Communications

February 13, 2023

Diamond Springs Transmission Main Outages

The District recently experienced two breaks on the Diamond Springs Main (DSM) transmission pipeline - February 2, 2023 and again on February 7, 2023. Both breaks affected approximately 175 service connections in the Shingle Springs community including Ponderosa High School. Prior to the shut downs all affected customers were notified via a phone messaging as well as by email and text, and staff communicated directly with the school regarding anticipated response actions. The 12-mile pipeline installed in 1961 has experienced approximately one break per year since 2016 - a concerning trend.

Fortunately, on February 2, 2023 the damage was limited to an appurtenance spool instead of the transmission main itself. However, the repair could not be completed without impacting service to portions of Shingle Springs, including early release of approximately 1,800 students and rescheduling of the school's open house that evening.

Throughout the February 2, 2023 repairs, staff worked closely with the school's principal to minimize impacts if possible, including attempting to delay the repairs until school was released for the day. However, after evaluating the situation staff determined the repair could not be delayed without increasing the risk of additional damage to this important, aging asset that serves customers from Diamond Springs to El Dorado Hills. Repairs were initiated at approximately 11:30 A.M. and water was fully restored by 5:30 P.M.

Staff has determined this break was attributed to standing water in the blow-off valve vault that eventually corroded the spool to the point of failure. The facility, originally constructed by the Bureau of Reclamation, did not have any considerations for adequately draining rain or ground water. Design standards have since been modified so that new construction projects install the blow-off isolation valve on the transmission main allowing repairs on the blow off without requiring a shutdown of the transmission main. In response to this failure, staff are evaluating the condition of other blow-off vaults for similar potential problems. Unfortunately, any additional repairs will likely require shutdowns, but those efforts can be scheduled to minimize the impact and perhaps coordinated with other shutdown activities.



Unfortunately, the damage on February 7, 2023 was more significant. This time the break had occurred on the transmission main itself requiring a significant excavation to safely access the pipeline to effectuate the repairs. Once the damaged section of pipeline was safely removed, a District welder secured the bar wrapped steel back to the cylinder, the new section of pipe was installed, and staff applied quick setting mortar to all remaining exposed steel. Staff completed all necessary disinfection and then methodically restored water service to all affected customers. Repairs commenced at approximately 10:30 A.M. and water service was fully restored by 11:30 P.M.

Since the break occurred early in the morning staff contacted the school before students arrived to coordinate a plan that would expedite repairs while minimizing further disruptions to the school's operations. The District provided portable hand washing stations through a contracted vendor to assist the school with maintaining operations as long as possible. Ultimately, the school determined it was necessary to implement a second early release day and various other on campus activities that afternoon and evening were either modified or cancelled as a result of the service outage.

Staff determined that the second break was attributed to failed internal mortar lining that allowed water to corrode the steel cylinder. This was determined based on the condition of the bar wrap on the outside of the steel cylinder having no corrosion indicating that the external concrete was intact prior to the break. Staff was able to inspect the interior of the pipe both upstream and downstream while the damage section was removed and fortunately no other defects were found. Therefore, the origin of the failed mortar appears to be isolated to an original installation defect because the mortar in the vicinity of the repair was well adhered to the steel cylinder internally except at the location of the break.





MINUTES
REGULAR MEETING OF THE BOARD OF DIRECTORS
District Board Room, 2890 Mosquito Road, Placerville, California
January 23, 2023 — 9:00 A.M.

Board of Directors

Brian K. Veerkamp—Division 3
President

Alan Day—Division 5
Vice President

George Osborne—Division 1
Director

Pat Dwyer—Division 2
Director

Lori Anzini—Division 4
Director

Executive Staff

Jim Abercrombie
General Manager

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Operations

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CALL TO ORDER

President Veerkamp called the meeting to order at 9:00 A.M.

Roll Call Board

Present: Directors Osborne, Dwyer, Veerkamp, Anzini and Day

Staff

Present: General Manager Abercrombie, General Counsel Poulsen and Board Clerk Sullivan

Pledge of Allegiance and Moment of Silence

Vice President Day led the Pledge of Allegiance.

ADOPT AGENDA

ACTION: Agenda was adopted.

MOTION PASSED

Ayes: Directors Anzini, Dwyer, Osborne, Veerkamp and Day

COMMUNICATIONS

Awards and Recognitions

General Manager Abercrombie recognized EID staff member Joel Beall. He also thanked staff for their hard work and commitment to our customers throughout the recent storms.

PUBLIC COMMENT

None

COMMUNICATIONS

General Manager

None

Clerk to the Board

None

Board of Directors

Director Osborne commented on recent ratepayer communications regarding Jenkinson Lake.

Director Dwyer thanked staff for their commitment in providing safe and reliable services to our customers throughout the recent storms. He also recognized EID Communications staff for the recent Waterfront Newsletter.

Director Anzini thanked staff for their hard work through December and January storms. Director Anzini also complimented staff on recent EID communications to our customers regarding voluntary conservation through the recent storms.

Director Veerkamp reported on his attendance at the recent El Dorado Water Agency meeting and Regional Water Authority workshop. He also reported that he will be attending the upcoming El Dorado Local Agency Formation Commission Board meeting

APPROVE CONSENT CALENDAR

ACTION: Consent Calendar was approved.

MOTION PASSED

Ayes: Directors Osborne, Dwyer, Veerkamp, Anzini and Day

CONSENT CALENDAR

1. Clerk to the Board (Sullivan)

Consider approving the minutes of the December 12, 2022 special and regular meetings of the Board of Directors.

ACTION: Option 1: Approved as submitted.

MOTION PASSED

Ayes: Directors Osborne, Dwyer, Veerkamp, Anzini and Day

2. Office of the General Manager (Abercrombie)

Consider ratifying Resolution No. 2022-001 to maintain an ongoing emergency declaration related to the Caldor Fire.

ACTION: Option 1: Ratified Resolution No. 2022-001 to maintain an ongoing emergency declaration related to the Caldor Fire.

MOTION PASSED

Ayes: Directors Osborne, Dwyer, Veerkamp, Anzini and Day

3. Clerk to the Board (Sullivan)

Consider Board President Veerkamp's recommendation of 2023 association and community organization assignments.

ACTION: Option 1: Concurred with Board President Veerkamp's recommendation of 2023 association and community organization assignments.

MOTION PASSED

Ayes: Directors Osborne, Dwyer, Veerkamp, Anzini and Day

4. Finance (Pasquarello)

Consider adopting two resolutions to certify signatures for the District's checking accounts at Bank of America and El Dorado Savings Bank.

ACTION: Option 1: Adopted Resolution Nos. 2023-001 and 2023-002 to certify signatures for the District's checking accounts at Bank of America and El Dorado Savings Bank.

MOTION PASSED

Ayes: Directors Osborne, Dwyer, Veerkamp, Anzini and Day

5. Operations (Wilson)

Consider awarding contracts to Sterling Water Technologies, LLC in the not-to-exceed amount of \$419,421 and NTU Technologies, Inc. in the not-to-exceed amount of \$74,480 for the annual purchase of drinking water treatment chemicals.

ACTION: Option 1: Awarded contracts to Sterling Water Technologies, LLC in the not-to-exceed amount of \$419,421 and NTU Technologies, Inc. in the not-to-exceed amount of \$74,480 for the 2023 annual purchase of drinking water treatment chemicals.

MOTION PASSED

Ayes: Directors Osborne, Dwyer, Veerkamp, Anzini and Day

6. Fleet (Royal)

Consider approving the sale of two 2010 Vac-Con Dual Engine Vacuum trucks through Bar None Auction.

ACTION: Option 1: Approved the sale of two 2010 Vac-Con Dual Engine Vacuum trucks through Bar None Auction.

MOTION PASSED

Ayes: Directors Osborne, Dwyer, Veerkamp, Anzini and Day

7. Engineering/Operations (DeLongchamp/Certiberi)

Consider adopting three resolutions authorizing submittal of grant applications for Sly Park Recreation Area improvements to the Division of Boating and Waterways authorizing the General Manager or his designee(s) to prepare, sign and file the applications.

ACTION: Option 1: Adopted Resolution Nos. 2023-003, 2023-004 and 2023-005 authorizing submittal of grant applications for Sly Park Recreation Area improvements to the Division of Boating and Waterways authorizing the General Manager or his designee(s) to prepare, sign and file the applications.

MOTION PASSED

Ayes: Directors Osborne, Dwyer, Veerkamp, Anzini and Day

8. Engineering (Carrington)

Consider authorizing additional funding in the amounts of \$25,000 for environmental studies, \$67,710 for engineering services and \$100,000 for capitalized labor for a total funding request of \$192,710 for the Rancho Ponderosa Lift Station Relocation, Project No. 17023.01; and \$10,000 for engineering services and \$65,000 for capitalized labor for a total funding request of \$75,000 for the Motherlode Force Main Phase 3, Project No. 21081.01.

ACTION: Option 1: Authorized additional funding in the amounts of \$25,000 for environmental studies, \$67,710 for engineering services and \$100,000 for capitalized labor for a total funding request of \$192,710 for the Rancho Ponderosa Lift Station Relocation, Project No. 17023.01; and \$10,000 for engineering services and \$65,000 for capitalized labor for a total funding request of \$75,000 for the Motherlode Force Main Phase 3, Project No. 21081.01.

MOTION PASSED

Ayes: Directors Osborne, Dwyer, Veerkamp, Anzini and Day

9. Operations (Peterson)

Consider awarding two on-call task orders to California Laboratory Services in the not-to-exceed amounts of \$96,646 and \$76,657 for 2023 wastewater analytical testing services for the El Dorado Hills and Deer Creek Wastewater Treatment Plants.

ACTION: Option 1: Awarded two on-call tasks orders to California Laboratory Services in the not-to-exceed amounts of \$96,646 and \$76,657 for 2023 wastewater analytical testing services for the El Dorado Hills and Deer Creek Wastewater Treatment Plants.

MOTION PASSED

Ayes: Directors Osborne, Dwyer, Veerkamp, Anzini and Day

10. Engineering/Operations (Graham/Wilson)

Consider awarding an on-call task order to BSK Associates in the not-to-exceed amount of \$116,174 for laboratory analytical testing services for drinking and source water monitoring during 2023.

ACTION: Option 1: Awarded an on-call task order to BSK Associates in the not-to-exceed amount of \$116,174 for water analytical testing services for drinking and source water monitoring during 2023.

MOTION PASSED

Ayes: Directors Osborne, Dwyer, Veerkamp, Anzini and Day

END OF CONSENT CALENDAR

INFORMATION ITEMS

11. Finance (Bandy)

Review of the Cost of Services Analysis process.

ACTION: None – Information only.

12. Operations (Corcoran)

Status update on 2023 water supplies.

ACTION: None – Information only.

ACTION ITEMS

13. Finance (Pasquarello)

Consider ratifying EID General Warrant Registers for the periods ending December 6, December 13, December 20 and December 27, 2022, and January 3 and January 10, 2023, and Board and Employee Expense Reimbursements for these periods.

ACTION: Option 1: Ratified the EID General Warrant Registers and Board and Employee Expense Reimbursements as submitted.

Director Veerkamp recused himself from the deliberations and vote on this Item.

MOTION PASSED

Ayes: Directors Anzini, Day, Osborne and Dwyer

14. Operations (Crane)

Consider declaring an emergency under applicable provisions of the Public Contract Code and Public Resources Code; ratify the General Manager's award of contracts to Doug Veerkamp General Engineering, Inc. in the not-to-exceed amount of \$35,000 for the emergency repair of the Mother Lode Force Main, to Doug Veerkamp General Engineering, Inc. and Sierra Site Services in the not-to-exceed amounts of \$540,000 and \$120,600, respectively, for wastewater pumping and hauling; and delegate, authorize and direct the District General Manager to take all further actions necessary to respond to the emergency declared herein.

MOTION: Motion by Director Osborne to approve option 2 and take other action as directed by the Board and adopt a resolution declaring an emergency under applicable provisions of the Public Contract Code and Public Resources Code; ratify the General Manager's award of contracts to Doug Veerkamp General Engineering, Inc. in the not-to-exceed amount of \$35,000 for the emergency repair of the Mother Lode Force Main, to Doug Veerkamp General Engineering, Inc. and Sierra Site Services in the not-to-exceed amounts of \$540,000 and \$120,600, respectively, for wastewater pumping and hauling contracts; and delegate, authorize and direct the District General Manager to take all further actions necessary to respond to the emergency declared herein. Direct staff to notify the Regional Water Quality Control Board that the Board has declared an emergency to help minimize financial impacts to the District related to the recent storms. Director Osborne later withdrew the motion.

MOTION: Motion by Director Osborne and seconded by Director Dwyer to approve option 1 to adopt a resolution declaring an emergency under applicable provisions of the Public Contract Code and Public Resources Code; ratify the General Manager's award of contracts to Doug Veerkamp General Engineering, Inc. in the not-to-exceed amount of \$35,000 for the emergency repair of the Mother Lode Force Main, to Doug Veerkamp General Engineering, Inc. and Sierra Site Services in the not-to-exceed amounts of \$540,000 and \$120,600, respectively, for wastewater pumping and hauling contracts; and delegate, authorize and direct the District General Manager to take all further actions necessary to respond to the emergency declared herein.

ACTION: Motion by Director Veerkamp and seconded by Director Day to bifurcate the vote into two actions (1) declaration of emergency and (2) ratification of the contracts.

MOTION PASSED

Ayes: Directors Veerkamp, Day, Osborne, Dwyer and Anzini

ACTION: Option 1: Adopted Resolution No. 2023-006 declaring an emergency under applicable provisions of the Public Contract Code and Public Resources Code and delegated, authorized and directed the District General Manager to take all further actions necessary to respond to the emergency declared herein.

MOTION PASSED

Ayes: Directors Osborne, Dwyer, Veerkamp, Anzini and Day

ACTION: Option 1: Ratified the General Manager's award of contracts to Doug Veerkamp General Engineering, Inc. in the not-to-exceed amount of \$35,000 for the emergency repair of the Mother Lode Force Main, to Doug Veerkamp General Engineering, Inc. and Sierra Site Services in the not-to-exceed amounts of \$540,000 and \$120,600, respectively, for wastewater pumping and hauling contracts; and delegated, authorized and directed the District General Manager to take all further actions necessary to respond to the emergency declared herein.

Director Veerkamp recused himself from the deliberations and vote on this Item.

MOTION PASSED

Ayes: Directors Osborne, Dwyer, Veerkamp, Anzini and Day

15. Engineering (DeLongchamp)

Consider awarding contracts to Cal Sierra Construction, Inc. in the not-to-exceed amount of \$2,961,800 for tank recoating and repair services and MCS Inspection in the not-to-exceed amount of \$141,531 for specialty coating inspection for the Bass Lake Tanks Recoating Project, Tracking No. T2021.22 which staff has determined is exempt from the California Environmental Quality Act.

ACTION: Option 1: Awarded contracts to Cal Sierra Construction, Inc. in the not-to-exceed amount of \$2,961,800 for tank recoating and repair services and MCS Inspection in the not-to-exceed amount of \$141,531 for specialty coating inspection for the Bass Lake Tanks Recoating Project, Tracking No. T2021.22 which staff has determined is exempt from the California Environmental Quality Act.

MOTION PASSED

Ayes: Directors Anzini, Dwyer, Osborne, Veerkamp and Day

16. Engineering (Money)

Consider approving a contract amendment to Water Works Engineers, Inc. in the not-to-exceed amount of \$259,943 for easement acquisition services for the Sly Park Intertie Improvements and authorize additional funding of \$259,943 for the Sly Park Intertie Improvements Project, Project No. 21079.

ACTION: Option 1: Approved a contract amendment to Water Works Engineers, Inc. in the not-to-exceed amount of \$259,943 for easement acquisition services for the Sly Park Intertie Improvements and authorized additional funding of \$259,943 for the Sly Park Intertie Improvements Project, Project No. 21079.

MOTION PASSED

Ayes: Directors Osborne, Dwyer, Veerkamp, Anzini and Day

17. Operations (Wilson)

Consider awarding a contract to MPK Solutions in the not-to-exceed amount of \$712,733 to replace filter media for the Reservoir A Water Treatment Plant Filters 5 through 8 Media Replacement Project, Project No. T2022.53, which staff has determined is exempt from the California Environmental Quality Act.

ACTION: Option 1: Awarded a contract to MPK Solutions in the not-to-exceed amount of \$712,733 to replace filter media for the Reservoir A Water Treatment Plant Filters 5 through 8 Media Replacement Project, Project No. T2022.53, which staff has determined is exempt from the California Environmental Quality Act.

MOTION PASSED

Ayes: Directors Dwyer, Anzini, Osborne, Veerkamp and Day

CLOSED SESSION

A. Conference with General Counsel –Anticipated Litigation (Poulsen)

Government Code Sections 54956.9(d)(2) (one potential case: employee allegations of gender discrimination)

ACTION: On a motion by Director Dwyer, seconded by Director Veerkamp, the Board unanimously authorized staff to refer this matter to outside counsel and retain Tim Del Castillo, Esq. with Castle Law to represent the District in this matter.

REVIEW OF ASSIGNMENTS

None

ADJOURNMENT

President Veerkamp adjourned the meeting at 12:10 P.M.

Brian K. Veerkamp
Board President
EL DORADO IRRIGATION DISTRICT

ATTEST

Jennifer Sullivan
Clerk to the Board
EL DORADO IRRIGATION DISTRICT

Approved: _____

EL DORADO IRRIGATION DISTRICT

SUBJECT: Consider ratifying Resolution No. 2022-001 to maintain an ongoing emergency declaration related to the Caldor Fire.

PREVIOUS BOARD ACTION

August 23, 2021 – Board adopted Resolution No. 2021-012 ratifying the General Manager’s declaration of an emergency for the Caldor Fire.

September 13, October 12, October 25, November 8, and December 13, 2021 – Board ratified Resolution No. 2021-012 to maintain an emergency declaration regarding the Caldor Fire.

January 10, 2022 – Board adopted Resolution No. 2022-001 declaring an ongoing emergency related to the Caldor Fire.

At every regular Board meeting since its adoption the Board has ratified Resolution No. 2022-001.

BOARD POLICIES (BP), ADMINISTRATIVE REGULATIONS (AR) AND BOARD AUTHORITY

BP 2050 Administrative Leeway in the Absence of Policy

BP 3060 Contracts and Procurement

Public Resources Code section 21080(b) and California Environmental Quality Act (“CEQA”) Guidelines section 15269

SUMMARY OF ISSUE

The Caldor Fire caused significant damage to District facilities and surrounding lands and impacted the District’s water conveyance system. While the District recently replaced the damaged flumes and is now conveying water through the new facilities, recovery efforts are ongoing. The ongoing emergency declaration related to the Caldor Fire reflects the continued emergency, and will facilitate emergency recovery efforts. The General Manager will provide periodic updates to the Board on the District’s response to the Caldor Fire damages.

BACKGROUND/DISCUSSION

The Caldor Fire erupted near the town of Grizzly Flats on August 14, 2021. Shortly thereafter, both the El Dorado County Board of Supervisors and Governor Gavin Newsom proclaimed a state of emergency for El Dorado County. On August 23, 2021, the District adopted Resolution No. 2021-012, ratifying the General Manager’s emergency declaration and directing the General Manager to take all necessary and appropriate actions in response. On September 1, 2021, President Biden declared a federal state of emergency as a result of the Caldor Fire and on September 12, upgraded that designation to a federal disaster status.

The Caldor Fire caused extensive damage to District facilities and surrounding lands, including damage to District flumes that convey water supplies. In response, the District took immediate and numerous actions to mitigate and address the damage to District facilities. Those emergency actions continued into 2022, and on January 10, 2022, the Board adopted Resolution No. 2022-001, declaring an ongoing emergency related to the Caldor Fire.

Emergency recovery efforts are ongoing, including time-sensitive restoration of facilities damaged by the Caldor Fire. In light of the continued emergency response and recovery efforts, ratification of Resolution No. 2022-001 to maintain the ongoing emergency related to the Caldor Fire is appropriate.

BOARD OPTIONS

- Option 1:** Ratify Resolution No. 2022-001 to maintain an ongoing emergency declaration related to the Caldor Fire.
- Option 2:** Take other action as directed by the Board.
- Option 3:** Take no action.

RECOMMENDATION

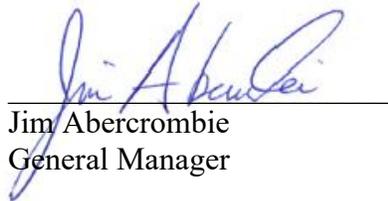
Option 1

ATTACHMENTS

Attachment A: Resolution No. 2022-001



Brian Poulsen
General Counsel



Jim Abercrombie
General Manager

**RESOLUTION OF THE BOARD OF DIRECTORS OF
EL DORADO IRRIGATION DISTRICT
DECLARING AN ONGOING STATE OF EMERGENCY
AS A RESULT OF THE CALDOR FIRE**

1
2
3
4 WHEREAS, El Dorado Irrigation District (District) provides critical water services and
5 wastewater services to the residents of El Dorado County; and

6 WHEREAS, on August 14, 2021, the Caldor Fire started burning in the Middle Fork
7 Cosumnes River Canyon in El Dorado County; and

8 WHEREAS, on August 17, 2021, Governor Newsom proclaimed a state of emergency to
9 exist in El Dorado County due to the Caldor Fire; and

10 WHEREAS, on August 23, 2021, the District's Board of Directors adopted Resolution No.
11 2021-012 declaring a state of emergency due to the Caldor Fire and directed the District General
12 Manager to take all actions reasonable deemed necessary to respond to the emergency conditions;
13 and

14 WHEREAS, on September 1, 2021, President Biden declared a federal state of emergency
15 as a result of the Caldor Fire; and

16 WHEREAS, on September 12, 2021 President Biden declared the Caldor Fire to be a
17 federal disaster; and

18 WHEREAS, the District has taken, and continues to take, numerous actions in response to
19 the damage caused by the Caldor Fire, in an effort to ensure safe and continuous services to the
20 public; and

21 WHEREAS, the Caldor Fire caused extensive damage to the District's Project 184 system,
22 including the loss of wooden Flumes 4, 5, 6, and 30 along the El Dorado Canal, resulting in
23 ongoing efforts to rebuild and replace damaged flume sections and remove fire-damaged hazard
24 trees; and

25 WHEREAS, the damage caused by the Caldor Fire to District facilities and surrounding
26 lands requires ongoing and immediate action to prevent or mitigate loss of, or damage to life,
27 property, and the essential District public services; and

WHEREAS, Public Resources Code section 21080(b)(4) and CEQA Guidelines section
15269(c) exempt from CEQA any actions that are necessary to prevent or mitigate an
emergency; and

1 WHEREAS, CEQA Guidelines section 15359 defines “emergency” as “a sudden, unexpected
2 occurrence, involving a clear and imminent danger, demanding immediate action to prevent or
3 mitigate loss of, or damage to life, health, property, or essential public services;” and

4 WHEREAS, Public Contract Code section 20567 authorizes irrigation districts to let contracts
5 without notice for bids in case of an emergency; and

6 WHEREAS, Public Contract Code section 22050(a)(2) requires that before action is taken to
7 procure equipment, services, and supplies without giving notice for bids, the governing body must
8 first make a finding, based on substantial evidence set forth in the minutes of its meeting, that the
9 emergency will not permit a delay resulting from a competitive solicitation for bids, and that the
action is necessary to respond to the emergency; and

10 WHEREAS, Public Contract Code section 11102 defines “emergency” as “a sudden,
11 unexpected occurrence that poses a clear and imminent danger, requiring immediate action to
12 prevent or mitigate the loss or impairment of life, health, property, or essential public services;” and

13 WHEREAS, District Board Policy 2050 authorizes the District’s General Manager to act “in
14 emergency situations where no Board Policies or Administrative Regulations exist;” and

15 WHEREAS, District Board Policy 3060 authorizes the District’s General Manager to
16 approve all contracts or procurements or change orders with values of up to and including
\$100,000; and

17 WHEREAS, in the event of an emergency requiring immediate contract or procurement
18 action, District Board Policy 3060 authorizes the District’s General Manager to “approve any and
19 all contracts necessary to abate the emergency after first informing the President of the Board of
20 Directors and scheduling an emergency meeting of the Board of Directors at the earliest possible
opportunity;” and

21 WHEREAS, District Board Policy 3060 requires the District’s General Manager to bring
22 any and all contracts or procurements with values exceeding \$100,000, approved during an
23 emergency, to the Board of Directors for ratification at the first meeting of the Board immediately
24 following the emergency; and

25 WHEREAS, District Administrative Regulation 3061.05, subdivision E, provides for single
26 source procurement for good cause, which may include when “emergency or extraordinary
27 circumstances require immediate action that cannot be delayed for obtaining bids or proposals;”
and

1 NOW, THEREFORE, BE IT AND IT IS HEREBY RESOLVED by the Board of Directors
2 of the El Dorado Irrigation District as follows:

- 3 1. The Board finds and declares that the Caldor Fire damage continues to constitute an
4 emergency within the meaning of Public Resources Code section 21080(b)(4), CEQA
5 Guidelines section 15359, Public Contracts Code section 11102, District Board Policy
6 2050 and 3060, and District Administrative Regulation 3061.05, subdivision E.
- 7 2. The Board finds and declares that the adoption of this Resolution and all of the
8 delegations, authorizations, and directions to the General Manager and District staff
9 specified in paragraph 4, below, satisfy the requirements and criteria of Public
10 Resources Code section 21080(b)(4), CEQA Guidelines section 15269(c), and Public
11 Contract Code sections 22050(a)(2) and 20567.
- 12 3. The foregoing findings and declarations are based upon all written, oral, and visual
13 evidence, including both facts and professional opinions, presented to the Board at the
14 adoption of this Resolution.
- 15 4. The Board hereby delegates, authorizes, and directs the District General Manager and his
16 designees to take all actions reasonably deemed necessary to respond to the emergency
17 conditions declared herein, including but not limited to the following specific actions:
 - 18 a. Enter into professional services and construction contracts as reasonably deemed
19 necessary to respond to the Caldor Fire damage.
 - 20 b. Report to and seek ratification of the Board for any actions taken in excess of normal
21 authority or authority expressly granted by this Resolution, at the first regular Board
22 meeting held after each such action.
- 23 5. This Resolution shall take effect immediately upon adoption. Subject to the ratification
24 required by Public Contract Code sections 22050(b)(3), (c)(1), and (c)(2), and by District
25 Board Policy 3060, this Resolution shall remain in full force and effect until rescinded by a
26 subsequent Resolution of the Board of Directors.
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The foregoing Resolution was introduced at a regular meeting of the Board of Directors of the EL DORADO IRRIGATION DISTRICT, held on the 10th day of January 2022, by Director Dwyer who moved its adoption. The motion was seconded by Director Veerkamp and a poll vote taken which stood as follows:

AYES: Directors Dwyer, Veerkamp, Anzini and Day

NOES:

ABSENT: Director Osborne

ABSTAIN:

The motion having a majority of votes "Aye", the resolution was declared to have been adopted, and it was so ordered.


Lori Anzini, President
Board of Directors
EL DORADO IRRIGATION DISTRICT

ATTEST:


Jennifer Sullivan
Clerk to the Board
EL DORADO IRRIGATION DISTRICT

(SEAL)

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EL DORADO IRRIGATION DISTRICT

SUBJECT: Consider authorizing additional funding in the amounts of \$14,877 for Pacific Gas and Electric electrical service upgrades and \$10,000 for capitalized labor for a total funding request of \$24,877 for the Diversion Facility Upgrades Project, Project No. 21008.01; \$20,000 for consulting services for Federal Energy Regulatory Commission (FERC) C44 Noxious Weed Monitoring, Project No. 08025H; \$30,000 in capitalized labor for FERC C38 Adaptive Management, Project No. 07011H; \$25,000 for consulting services and \$10,000 in capitalized labor for a total funding request of \$35,000 for FERC C37.8 Water Temperature Monitoring, Project No. 06021H; \$15,000 for consulting services for FERC C37.3 Amphibian Monitoring, Project No. 06089H; and \$5,000 for consulting services for FERC C33 Lake Aloha Trout Removal, Project No. 06086H.

PREVIOUS BOARD ACTION

Diversion Facility Upgrades Project, Project No. 21008.01

June 14, 2021 – Board awarded a contract to GHD, Inc. in the not-to-exceed amount of \$176,636 for design of the Diversion Facility Upgrades and authorized additional funding of \$65,000 for capitalized labor for a total funding request of \$241,636 for the Diversion Facility Upgrade Project, Project No. 21008.01.

Federal Energy Regulatory Commission (FERC) License Conditions

Since 2006, the Board has annually authorized funding to implement the various license conditions to comply with the terms of the FERC license and related agreements.

November 14, 2022 – Board adopted the 2023–2027 Capital Improvement Plan (CIP), subject to available funding.

BOARD POLICIES (BP), ADMINISTRATIVE REGULATIONS (AR) AND BOARD AUTHORITY

BP 3010 Budget

SUMMARY OF ISSUE

Board approval is required to authorize CIP funding prior to staff proceeding with work on the projects.

BACKGROUND/DISCUSSION

Staff requests funding for the CIP projects identified in Table 1. The expenditures to date, amount of new funding requested and the funding source are listed.

**Table 1
CIP Funding Request**

	Project Name and Number	2023-2027 CIP Plan¹	Funded to Date	Actual Costs to date²	Amount Requested	Funding Source
1.	Diversion Facility Upgrades Project No. 21008.01	\$760,731	\$341,636	\$313,475	\$24,877	100% Water FCCs
2.	FERC C44 Noxious Weed Monitoring 08025H	\$428,867	\$327,342	\$317,867	\$20,000	100% Water Rates
3.	FERC C38 Adaptive Management 07011H	\$925,066	\$697,000	\$675,066	\$30,000	100% Water Rates
4.	C37.8 Water Temperature Monitoring 06021H	\$527,785	\$376,500	\$372,785	\$35,000	100% Water Rates
5.	C37.5 Amphibian Monitoring 06089H	\$504,808	\$388,648	\$379,808	\$15,000	100% Water Rates
6.	C33 Lake Aloha Trout Removal 06086H	\$90,663	\$87,000	\$70,663	\$5,000	100% Water Rates
	TOTAL FUNDING REQUEST				\$129,877	

¹ Includes all existing costs plus any expected costs in the 5-year CIP.

² Actual costs include encumbrances.

The following section contains a brief breakdown and description of the project in Table 1.

CIP Funding Request

Project No.	21008.01	Board Date	01/23/2023
Project Name	Diversion Facility Upgrades		
Project Manager	Money		

Budget Status	\$	%
Funded to date	\$ 341,636	--
Spent to date	\$ 313,475	92%
Current Remaining	\$ 24,877	7%

Funding Request Breakdown	\$
PG&E electrical service upgrade	\$ 14,877
Capitalized Labor	\$ 10,000
Total	\$ 24,877

Funding Source
100% Water FCCs

Description
<p>The project is to design and implement a more reliable power distribution from utility and backup generator. Currently the site has multiple voltage feeds, large voltage swings and suffers from load imbalances. The load imbalance and voltage swings are causing faster equipment degradation and increasing maintenance cost. Consolidating power to a single feed will alleviate the current problems and improve reliability of the site. The current generator is no longer sized adequately for the current load at the facility. This project will include installation of a larger generator.</p> <p>This funding request is for PG&E fees to place a new power pole and main service at the Diversion site during construction, and for additional capitalized labor for project management during the construction bid and award phases of this project.</p> <p>Project design is complete, and planned for bid March 2023 with anticipated construction beginning late summer 2023.</p>

CIP Funding Request

Project No.	08025H	Board Date	02/13/2023
Project Name	FERC C44 Noxious Weed Monitoring		
Project Manager	Deason		

Budget Status	\$	%
Funded to date	\$ 327,342	--
Spent to date	\$ 317,867	97%
Current Remaining	\$ 9,475	3%

Funding Request Breakdown	\$
Consulting Services	\$ 20,000
Total	\$ 20,000

Funding Source
100% Water Rates

Description
<p>This project is a requirement of the FERC Project No. 184 license pursuant to United States Forest Service Section 4(e) Condition No. 44 and Section 8 of the El Dorado Hydroelectric Project Relicensing Settlement Agreement. Funding is necessary to implement noxious weed monitoring plan for the prevention and control of noxious weeds at Project No. 184 facilities. The plan requires annual surveys within the Project No. 184 boundary in areas where high priority noxious weeds are known to occur and in areas where ground disturbing activities occurred during the previous year. The data collected from this effort are used to track noxious weed occurrences and evaluate effectiveness of treatments and control efforts and inform future treatment and control efforts. Funding is requested in 2023 for consulting services to conduct monitoring. Current funding is sufficient to cover capitalized labor for staff time to: a) manage on-call contract and review deliverables generated by consultant, b) participate in field surveys, c) prepare the annual monitoring report, and d) consult with regulatory agencies on the monitoring results.</p>

CIP Funding Request

Project No.	07011H	Board Date	02/13/2023
Project Name	FERC C38 Adaptive Management		
Project Manager	Deason		

Budget Status	\$	%
Funded to date	\$ 697,000	--
Spent to date	\$ 675,066	97%
Current Remaining	\$ 21,934	3%

Funding Request Breakdown	\$
Capitalized Labor	\$ 30,000
Total	\$ 30,000

Funding Source
100% Water rates

Description
<p>This project is a requirement of the FERC Project No. 184 license pursuant to United States Forest Service (USFS) Section 4(e) Condition No. 38 Ecological Resources Adaptive Management Program and Section 8 of the Relicensing Settlement Agreement. Funding is requested for staff time to implement the adaptive management program which includes coordination with the Project No. 184 Ecological Resources Committee (ERC), implementation of the resource monitoring program, and evaluation of monitoring results to determine if resource objectives are achievable and being met. Funding is requested for staff time in 2023 to continue license implementation in coordination with the ERC, USFS, and State Water Resources Control Board (SWRCB), evaluate results of the resource monitoring program to determine if resource objectives are achievable and being met, and prepare the Project No. 184 monitoring program annual report. Analysis of monitoring results will be used to determine any needed changes in streamflow, or implementation of other adaptive management measures.</p>

CIP Funding Request

Project No.	06021H	Board Date	02/13/2023
Project Name	FERC C37.1 Water Temperature Monitoring		
Project Manager	Deason		

Budget Status	\$	%
Funded to date	\$ 376,500	--
Spent to date	\$ 372,785	99%
Current Remaining	\$ 3,715	1%

Funding Request Breakdown	\$
Consulting Services	\$ 20,000
Capitalized Labor	\$ 10,000
Total	\$ 35,000

Funding Source
100% Water rates

Description
<p>This project is a requirement of the FERC Project No. 184 license pursuant to United States Forest Service (USFS) Section 4(e) Condition No. 37 and 42, State Water Resources Control Board (SWRCB) Water Quality Certification Condition 14 and Section 12 of the Relicensing Settlement Agreement. Funding is requested to implement the Project No. 184 Water Temperature Monitoring Plan (Plan) which requires annual monitoring of water temperature in stream reaches downstream of Project No. 184 reservoirs and facilities and above and below the El Dorado Diversion Dam. The data collected from this effort are used to determine if coldwater beneficial uses (e.g. suitable water temperature conditions for fish and amphibians) are being met in designated project reaches. Funding is requested in 2023 for on-call consulting services to conduct monitoring and staff time to a) manage on-call contract and review deliverables generated by consultant, b) prepare the annual monitoring report, and c) consult with regulatory agencies on the monitoring results.</p>

CIP Funding Request

Project No.	06089H	Board Date	02/13/2023
Project Name	FERC C37.5 Amphibian Monitoring		
Project Manager	Deason		

Budget Status	\$	%
Funded to date	\$ 388,648	--
Spent to date	\$ 379,808	98%
Current Remaining	\$ 8,840	2%

Funding Request Breakdown	\$
Consulting Services	\$ 15,000
Total	\$ 15,000

Funding Source
100% Water rates

Description
<p>This project is a requirement of the FERC Project No. 184 license pursuant to United States Forest Service (USFS) Section 4(e) Condition No. 37, State Water Resources Control Board (SWRCB) Water Quality Certification Condition 13 and Section 7 of the Relicensing Settlement Agreement. Funding is requested for two contingencies: 1) Foothill yellow-legged frog (FYLF) surveys if diversions into the canal cause a flow fluctuation, as defined by the license, in the South Fork American River to assess the effects of flow fluctuations on FYLF egg masses and tadpoles and 2) Sierra Nevada yellow-legged frog (SNYLF) surveys if a spill occurs over the Lake Aloha auxiliary dams to assess if spill events adversely affect SNYLF by introducing trout into the ponds and habitats downstream of the auxiliary dams following a spill event. Funding will be utilized for on-call consulting services to conduct the required surveys if either operational event described above occurs in 2023.</p>

CIP Funding Request

Project No.	06086H	Board Date	02/13/2023
Project Name	FERC C33 Lake Aloha Trout Removal		
Project Manager	Deason		

Budget Status	\$	%
Funded to date	\$ 87,000	--
Spent to date	\$ 70,663	99%
Current Remaining	\$ 16,337	1%

Funding Request Breakdown	\$
Consulting Services	\$ 5,000
Total	\$ 5,000

Funding Source
100% Water rates

Description
<p>This project is a requirement of the FERC Project No. 184 license pursuant to United States Forest Service (USFS) Section 4(e) Condition No. 33, State Water Resources Control Board (SWRCB) Water Quality Certification Condition 4 and Section 3 of the Relicensing Settlement Agreement. Funding is requested to implement the Project No. 184 Lake Aloha Trout Removal Monitoring Plan (Plan) which requires trout be removed from the ponds downstream of the Lake Aloha auxiliary dams in years when spill occurs. The objective of this effort is to determine if spill events adversely affect Sierra Nevada yellow legged frog (SNYLF) by introducing predatory trout into SNYLF habitat downstream of the auxiliary dams. SNYLF surveys (CIP #06089H) are also required downstream of the auxiliary dams following a spill event. If feasible, SNYLF surveys will be conducted in conjunction with the trout removal efforts. Funding will be utilized for on-call consulting services to conduct the required trout removal if Lake Aloha spills in 2023.</p>

BOARD OPTIONS

Option 1: Authorize additional funding in the amounts of \$14,877 for Pacific Gas and Electric electrical service upgrades and \$10,000 for capitalized labor for a total funding request of \$24,877 for the Diversion Facility Upgrades Project, Project No. 21008.01; \$20,000 for consulting services for Federal Energy Regulatory Commission (FERC) C44 Noxious Weed Monitoring, Project No. 08025H; \$30,000 in capitalized labor for FERC C38 Adaptive Management, Project No. 07011H; \$25,000 for consulting services and \$10,000 in capitalized labor for a total funding request of \$35,000 for FERC C37.8 Water Temperature Monitoring, Project No. 06021H; \$15,000 for consulting services for FERC C37.3 Amphibian Monitoring, Project No. 06089H; and \$5,000 for consulting services for FERC C33 Lake Aloha Trout Removal, Project No. 06086H.

Option 2: Take other action as directed by the Board.

Option 3: Take no action.

RECOMMENDATION

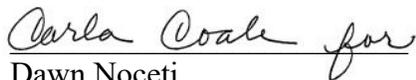
Option 1

ATTACHMENTS

Attachment A: CIP Summaries

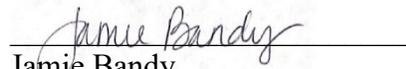

Jon Money
Senior Civil Engineer


Brian Deason
Environmental Resources Supervisor


Dawn Noceti
Accountant


Elizabeth Dawson
Engineering Manager


Brian Mueller
Engineering Director


Jamie Bandy
Finance Director


Brian Poulsen
General Counsel


Jim Abercrombie
General Manager

2023

CAPITAL IMPROVEMENT PLAN Program:

Hydroelectric

Project Number: 21008
Project Name: Diversion - Facility Upgrades
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** TBD **Board Approval:** 11/14/22

Project Description:

The project is to design and implement a more reliable power distribution from utility and backup generator. Currently the site has multiple voltage feeds, large voltage swings and suffers from load imbalances. The load imbalance and voltage swings are causing faster equipment degradation and increasing maintenance cost. Consolidating power to a single feed will alleviate the current problems and improve reliability of the site. The current generator is no longer sized adequately for the current load at the facility. This project will include installation of a larger generator.

Other Diversion facility improvements include relocating the air compressor/fish screen blower system outside of the existing control room to reduce heat load to electrical and network equipment and enclosing the compressor tank to prevent temperature issues.

Costs have been updated based on final design and the design engineers estimate. Project is scheduled to bid early next year for a Spring/Summer construction.

Basis for Priority:

The project will improve reliability and improve operational capabilities of a critical water facility.

Project Financial Summary:

Funded to Date:	\$ 341,636	Expenditures through end of year:	\$ 216,587
Spent to Date:	\$ 216,587	2023 - 2027 Planned Expenditures:	\$ 544,144
Cash flow through end of year:		Total Project Estimate:	\$ 760,731
Project Balance	\$ 125,049	Additional Funding Required	\$ 419,095

Description of Work	Estimated Annual Expenditures					Total
	2023	2024	2025	2026	2027	
Study/Planning						\$ -
Design	\$ 44,144					\$ 44,144
Construction	\$ 500,000					\$ 500,000
						\$ -
TOTAL	\$ 544,144	\$ -	\$ -	\$ -	\$ -	\$ 544,144

Funding Sources	Percentage	2023	Amount
Water FCCs	100%		\$419,095
			\$0
			\$0
Total	100%		\$419,095

Funding Comments:

2023

CAPITAL IMPROVEMENT PLAN Program:

FERC

Project Number: 08025H
 Project Name: FERC C44 Noxious Weed Monitoring
 Project Category: Regulatory Requirements
 Priority: 1 PM: Deason Board Approval: 11/14/22

Project Description:

Mandatory requirement of the FERC license. Funding is requested to implement the noxious weed plan for the prevention and control of noxious weeds at Project No. 184 facilities. The plan requires annual surveys within the Project No. 184 boundary in areas where high priority noxious weeds are known to occur and in areas where ground disturbance occurred during the previous year. The plan also calls for surveys to be conducted every 5 years along the Project No. 184 boundary.

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license, Section 8 of the Settlement Agreement, and USFS 4(e) condition 44.

Project Financial Summary:

Funded to Date:	\$ 327,342	Expenditures through end of year:	\$ 309,420
Spent to Date:	\$ 289,420	2023 - 2027 Planned Expenditures:	\$ 165,000
Cash flow through end of year:	\$ 20,000	Total Project Estimate:	\$ 474,420
Project Balance	\$ 17,922	Additional Funding Required	\$ 147,078

Description of Work	Estimated Annual Expenditures					
	2023	2024	2025	2026	2027	Total
Implementation	\$ 25,000	\$ 25,000	\$ 25,000	\$ 40,000	\$ 25,000	\$ 140,000
Reporting	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 25,000
						\$ -
						\$ -
TOTAL	\$ 30,000	\$ 30,000	\$ 30,000	\$ 45,000	\$ 30,000	\$ 165,000

Estimated Funding Sources	Percentage	2023	Amount
Water Rates	100%		\$12,078
			\$0
			\$0
Total	100%		\$12,078

Funding Comments:

2023

CAPITAL IMPROVEMENT PLAN Program:

FERC

Project Number:

07011H

Project Name:

FERC: C38 Adaptive Management Program

Project Category:

Regulatory Requirements

Priority:

1

PM:

Deason

Board Approval:

11/14/22

Project Description:

Mandatory requirement of the FERC license. Funding is for staff time to implement the adaptive management program (Condition 38) of the FERC license. This program requires coordination with the Ecological Resources Committee (ERC), implementation of the resource monitoring program, and evaluation of monitoring results to determine if resource objectives are achievable and being met.

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license, Section 14 of the Settlement Agreement, and USFS 4(e) condition 38.

Project Financial Summary:

Funded to Date:	\$ 697,000	Expenditures through end of year:	\$ 689,097
Spent to Date:	\$ 669,097	2023 - 2027 Planned Expenditures:	\$ 250,000
Cash flow through end of year:	\$ 20,000	Total Project Estimate:	\$ 939,097
Project Balance	\$ 7,903	Additional Funding Required	\$ 242,097

Description of Work	Estimated Annual Expenditures					Total
	2023	2024	2025	2026	2027	
Staff time	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$ 250,000
						\$ -
TOTAL	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000

Estimated Funding Sources	Percentage	2023	Amount
Water Rates	100%		\$42,097
			\$0
			\$0
Total	100%		\$42,097

Funding Comments:

2023

CAPITAL IMPROVEMENT PLAN Program:

FERC

Project Number:

06021H

Project Name:

FERC C37.8 Water Temperature

Project Category:

Regulatory Requirements

Priority:

1

PM:

Deason

Board Approval:

11/14/22

Project Description:

Mandatory requirement of the FERC license. Funding is necessary to implement an annual water temperature monitoring program at project reservoirs and stream reaches. The data collected from this monitoring effort will be used to determine if the coldwater beneficial uses are being met in designated project reaches.

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license, Sections 7 and 12 of the Settlement Agreement, USFS 4(e) conditions 37 and 42, and SWRCB Water Quality Certification condition 14.

Project Financial Summary:

Funded to Date:	\$ 376,500	Expenditures through end of year:	\$ 347,961
Spent to Date:	\$ 337,961	2023 - 2027 Planned Expenditures:	\$ 155,000
Cash flow through end of year:	\$ 10,000	Total Project Estimate:	\$ 502,961
Project Balance	\$ 28,539	Additional Funding Required	\$ 126,461

Description of Work	Estimated Annual Expenditures					Total
	2023	2024	2025	2026	2027	
Monitoring	\$25,000	\$15,000	\$25,000	\$25,000	\$15,000	\$ 105,000
Reporting	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 25,000
Staff Time	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 25,000
						\$ -
TOTAL	\$ 35,000	\$ 25,000	\$ 35,000	\$ 35,000	\$ 25,000	\$ 155,000

Estimated Funding Sources	Percentage	2023	Amount
Water Rates	100%		\$6,461
			\$0
			\$0
Total	100%		\$6,461

Funding Comments:

2023

CAPITAL IMPROVEMENT PLAN Program:

FERC

Project Number:

06089H

Project Name:

FERC: C37.3 Amphibian Monitoring

Project Category:

Regulatory Requirements

Priority:

1

PM:

Deason

Board Approval:

11/14/22

Project Description:

Mandatory requirement of the FERC license. Amphibian surveys are required June through September if at any time flows in the South Fork of the American River (SFAR) are 100 cfs or less and the diversion into the canal causes the flow in the SFAR to change 50 cfs or more in 1 day. The objective of these surveys is to assess the effects of flow fluctuations on foothill yellow-legged frog egg masses and tadpoles. Amphibian surveys for Sierra Nevada yellow-legged frog (SNYLF) and foothill yellow-legged frog (FYLF) are also required every five years at project reservoirs and stream reaches as part of the El Dorado Hydroelectric Project No. 184 Adaptive Management Program. Amphibian surveys are also required in years when a spill occurs over the auxiliary dams at Lake Aloha. If spill occurs, EID is required to survey for SNYLF in the pools downstream of the auxiliary dams.

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license, Section 7 of the Settlement Agreement, USFS 4(e) conditions 37, and SWRCB Water Quality Certification condition 13.

Project Financial Summary:

Funded to Date:	\$ 388,648	Expenditures through end of year:	\$ 385,222
Spent to Date:	\$ 340,222	2023 - 2027 Planned Expenditures:	\$ 125,000
Cash flow through end of year:	\$ 45,000	Total Project Estimate:	\$ 510,222
Project Balance	\$ 3,426	Additional Funding Required	\$ 121,574

Description of Work	Estimated Annual Expenditures					Total
	2023	2024	2025	2026	2027	
FYLF/SNYLF monitoring				\$ 90,000		\$ 90,000
Staff time				\$ 10,000		\$ 10,000
SFAR flow fluctuations	\$ 10,000					\$ 10,000
Lake Aloha monitoring	\$ 15,000					\$ 15,000
						\$ -
TOTAL	\$ 25,000	\$ -	\$ -	\$ 100,000	\$ -	\$ 125,000

Estimated Funding Sources	Percentage	2023	Amount
Water Rates	100%		\$21,574
			\$0
			\$0
Total	100%		\$21,574

Funding Comments:

2023

CAPITAL IMPROVEMENT PLAN Program:

FERC

Project Number: 06086H
 Project Name: FERC C33 Lake Aloha Trout Removal
 Project Category: Regulatory Requirements
 Priority: 1 PM: Deason Board Approval: 11/14/22

Project Description:

Mandatory requirement of the FERC license. Funding only necessary in years when a spill occurs over the auxiliary dams at Lake Aloha. If spill occurs, EID is required to manually remove trout from the pools downstream of the auxiliary dams to help reduce potential impacts to Sierra Nevada yellow-legged frogs by trout predation.

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license, Section 7 of the Settlement Agreement, USFS 4(e) conditions 33, and SWRCB Water Quality Certification condition 4.

Project Financial Summary:

Funded to Date:	\$ 87,000	Expenditures through end of year:	\$ 66,948
Spent to Date:	\$ 49,948	2023 - 2027 Planned Expenditures:	\$ 20,000
Cash flow through end of year:	\$ 17,000	Total Project Estimate:	\$ 86,948
Project Balance	\$ 20,052	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2023	2024	2025	2026	2027	
Monitoring	\$20,000					\$ 20,000
						\$ -
TOTAL	\$ 20,000	\$ -	\$ -	\$ -	\$ -	\$ 20,000

Estimated Funding Sources	Percentage	2023	Amount
Water Rates	100%		\$0
			\$0
			\$0
Total	100%		\$0

Funding Comments:

EL DORADO IRRIGATION DISTRICT

SUBJECT: Consider authorizing additional funding in the amounts of \$70,000 for consulting services and \$10,000 in capitalized labor for a total funding request of \$80,000 for Federal Energy Regulatory Commission (FERC) C46-49 Recreation Resource Management, Project No. 06098H; \$45,334 for annual payments to the U.S. Forest Service (USFS) and \$5,000 in capitalized labor for a total funding request of \$50,334 for FERC C51.5 and C51.7 Recreation Management USFS Payments, Project No. 07006H; \$10,000 for capitalized labor for FERC C51.2 Recreation Management Caples Boat Launch, Project No. 10007; and \$50,000 for capitalized labor for FERC C15 Pesticide Use, Project No. 07010H.

PREVIOUS BOARD ACTION

Federal Energy Regulatory Commission (FERC) License Conditions

Since 2006, the Board has annually authorized funding to implement the various license conditions to comply with the terms of the FERC license and related agreements.

November 14, 2022 – Adopted the 2023–2027 Capital Improvement Plan (CIP), subject to available funding.

BOARD POLICIES (BP), ADMINISTRATIVE REGULATIONS (AR) AND BOARD AUTHORITY

BP 3010 Budget

SUMMARY OF ISSUE

Board approval is required to authorize CIP funding prior to staff proceeding with work on the projects.

BACKGROUND/DISCUSSION

Staff requests funding for the CIP projects identified in Table 1. The expenditures to date, amount of new funding requested and the funding source are listed.

**Table 1
CIP Funding Request**

	Project Name and Number	2023-2027 CIP Plan¹	Funded to Date	Actual Costs to date²	Amount Requested	Funding Source
1.	FERC C46-49 Recreation Resource Management Project No. 06098H	\$365,794	\$304,888	\$285,794	\$80,000	100% Water Rates
2.	FERC C51.5 & 51.7 RM USFS Payments 07006H	\$898,458	\$621,753	\$617,428	\$50,334	100% Water Rates
3.	FERC C51.2 RM Caples Boat Launch 10007	\$464,472	\$294,000	\$264,472	\$10,000	100% Water Rates
4.	FERC C15 Pesticide Use 07010H	\$1,316,694	\$948,000	\$906,694	\$50,000	100% Water Rates
	TOTAL FUNDING REQUEST				\$190,334	

¹ Includes all existing costs plus any expected costs in the 5-year CIP.

² Actual costs include encumbrances.

The following section contains a brief breakdown and description of the projects in Table 1.

CIP Funding Request

Project No.	06098H	Board Date	02/13/2023
Project Name	FERC C46-49 Recreation Resource Management		
Project Manager	Certiberi		

Budget Status	\$	%
Funded to date	\$ 304,888	--
Spent to date	\$ 285,794	94%
Current Remaining	\$ 19,094	6%

Funding Request Breakdown	\$
On-call Consulting Services	\$ 70,000
Capitalized Labor	\$ 10,000
Total	\$ 80,000

Funding Source
100% Water Rates

Description
<p>This project is a mandatory requirement pursuant to United States Forest Service (USFS) Section 4(e) Condition Nos. 46 - 49 Recreation Resource Management of the FERC Project No. 184 license and Sections 16 – 19 of the El Dorado Relicensing Settlement Agreement. Condition No. 46 – Implementation Plan requires a recreation implementation plan be developed by EID in coordination with the FS. Condition No. 47 - Recreation Survey requires EID to conduct a Recreational Survey and prepare a Report on Recreational Resources every 6 years. Condition No. 48 – Forest Service Liaison requires EID and FS each provide an individual for liaison whenever planning or construction of recreation facilities, other major Project improvements, and maintenance activities are taking place within the National Forest. Condition No. 49 - Review of Recreation Developments requires EID to meet with the FS at least every 6 years to review all recreation facilities and areas associated with the Project and to agree upon necessary maintenance, rehabilitation, construction, and reconstruction work needed and its timing and develop a 6-year schedule for maintenance, rehabilitation, and reconstruction work. Funding is requested in 2023 for on-call consulting services to conduct the Recreation Survey required by Condition 47 and staff time to: 1) manage on-call contract and review deliverables generated by consultant and 2) consult with FS on the results of the Recreation Survey.</p>

CIP Funding Request

Project No.	07005H	Board Date	02/13/2023
Project Name	FERC C51.5 & 51.7 RM USFS Payments		
Project Manager	Certiberi		

Budget Status	\$	%
Funded to date	\$ 621,753	--
Spent to date	\$ 617,428	99%
Current Remaining	\$ 4,325	1%

Funding Request Breakdown	\$
USFS Payment	\$ 45,334
Capitalized Labor	\$ 5,000
Total	\$ 50,334

Funding Source
100% Water Rates

Description
<p>This project is a requirement of the FERC Project No. 184 license pursuant to United States Forest Service (USFS) Section 4(e) Condition No. 51 and Section 21 of the El Dorado Relicensing Settlement Agreement, which in part, requires the District to provide funding for the following activities: 1) The licensee shall annually pay, by October 1, the amount of \$4,800 (year 2002 cost basis) to provide for performing monitoring and permit compliance assurance for the campground concessionaire special use permits at Caples Lake Campground and Silver Lake East Campground and 2) The licensee shall annually pay, by October 1, \$25,000 (year 2002 cost basis) to provide for patrol and operation of non-concessionaire developed and dispersed recreation facilities, as well as trails and other locations utilized by visitors to the Project, within and adjacent to the Project boundary. The cost for these payments is escalated annually based on the U.S. Gross Domestic Product – Implicit Price Deflator (GDP-IDP). Additionally, EID is required each year to provide a boat and operator on Caples Lake and Silver Lake at least twice each season (time to be determined by mutual agreement between the licensee and the FS) to assist the FS in policing the shoreline along Silver Lake and Caples Lake, and to clean up litter. Funding under this CIP is required to pay the annual fees to the USFS for special use administration and dispersed area patrol on USFS lands affected by the Project, and for capitalized labor to patrol the shoreline and clean up litter at Silver Lake and Caples Lake in 2023.</p>

CIP Funding Request

Project No.	10007	Board Date	02/13/2023
Project Name	FERC C51.2 RM Caples Boat Launch		
Project Manager	Certiberi		

Budget Status	\$	%
Funded to date	\$ 294,000	--
Spent to date	\$ 264,472	90%
Current Remaining	\$ 29,528	10%

Funding Request Breakdown	\$
Capitalized Labor	\$ 10,000
Total	\$ 10,000

Funding Source
100% Water Rates

Description
<p>This project is a requirement of the FERC Project No. 184 license pursuant to United States Forest Service (USFS) Section 4(e) Condition No. 51 and Section 21 of the El Dorado Relicensing Settlement Agreement, which, in part, requires the District to provide funding for the following activities: 1) The licensee shall be responsible for the following maintenance at the Caples Lake Auxiliary Dam Parking Area: a) routine cleaning, repair, and maintenance of all constructed features, b) toilet pumping, c) trash removal/litter pick up at the site, d) maintenance of the signboards, and e) vegetation management and 2) The licensee shall be responsible for operating and maintaining the boat launching ramp, associated parking lot, and other public facilities constructed at this site for the term of the license. The licensee shall also be responsible for maintenance of signboards. The USFS shall be responsible for maintaining the information on those signboards to USFS standards. Funding under this CIP is required to pay for capitalized labor for operations and maintenance activities at the Caples Lake Auxiliary Dam parking area and at the Caples Lake Boat Launch in 2023.</p>

CIP Funding Request

Project No.	07010H	Board Date	02/13/2023
Project Name	FERC C15 Pesticide Use		
Project Manager	Heape		

Budget Status	\$	%
Funded to date	\$ 948,000	--
Spent to date	\$ 906,694	96%
Current Remaining	\$ 41,306	4%

Funding Request Breakdown	\$
Capitalized Labor	\$ 50,000
Total	\$ 50,000

Funding Source
100% Water rates

Description
<p>This project is a mandatory requirement pursuant to United States Forest Service (USFS) Section 4(e) Condition No. 15 Pesticide Use and Article 20 of the FERC Project No. 184 license. Funding is requested to implement the Project No. 184 Integrated Pest Management Plan (IPMP) which addresses pesticide use at EID facilities located on USFS lands. Pest management is a critical component of on-going operation and maintenance of EID facilities. The primary objective of the IPMP is to provide guidelines to control unwanted vegetation and pests at EID facilities while providing for the protection and maintenance of forest resources. Funding is requested for capitalized labor to perform vegetation and pest control treatments and administer the IPMP training and reporting requirements in 2023. Current funding is adequate to cover the purchase of chemicals and materials needed to support this effort.</p>

BOARD OPTIONS

Option 1: Authorize additional funding in the amounts of \$70,000 for consulting services and \$10,000 in capitalized labor for a total funding request of \$80,000 for Federal Energy Regulatory Commission (FERC) C46-49 Recreation Resource Management, Project No. 06098H; \$45,334 for annual payments to the U.S. Forest Service (USFS) and \$5,000 in capitalized labor for a total funding request of \$50,334 for FERC C51.5 and C51.7 Recreation Management USFS Payments, Project No. 07006H; \$10,000 for capitalized labor for FERC C51.2 Recreation Management Caples Boat Launch, Project No. 10007; and \$50,000 for capitalized labor for FERC C15 Pesticide Use, Project No. 07010H.

Option 2: Take other action as directed by the Board.

Option 3: Take no action.

RECOMMENDATION

Option 1

ATTACHMENTS

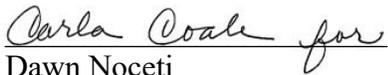
Attachment A: CIP Summaries



Carl Certiberi
Parks and Recreation Manager



Matt Heape
Hydro Operations & Maintenance Supervisor



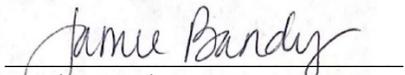
Dawn Noceti
Accountant



Cary Mutschler
Hydroelectric Manager



Dan Corcoran
Operations Director



Jamie Bandy
Finance Director



Brian Poulsen
General Counsel



Jim Abercrombie
General Manager

2023

CAPITAL IMPROVEMENT PLAN Program:

FERC

Project Number: 06098H
Project Name: FERC: C46 thru C49 Recreation Resource Management
Project Category: Regulatory Requirements
Priority: 1 **PM:** Certiberi **Board Approval:** 11/14/22

Project Description:

Required by the new FERC License, Settlement Agreement, and the USFS 4(e) Conditions. Conditions 46-49: Condition No. 46 – Implementation Plan. A recreation implementation plan shall be developed by the licensee in coordination with the FS within 6 months of license issuance. Condition No. 47 - Recreation Survey. The licensee shall conduct a Recreational Survey and prepare a Report on Recreational Resources that is approved by the FS every 6 years from the date of license issuance. Condition No. 48 – Forest Service Liaison. The FS and the licensee shall each provide an individual for liaison whenever planning or construction of recreation facilities, other major Project improvements, and maintenance activities are taking place within the National Forest. Condition No. 49 - Review of Recreation Developments. The FS and the licensee shall meet at least every 6 years to review all recreation facilities and areas associated with the Project and to agree upon necessary maintenance, rehabilitation, construction, and reconstruction work needed and its timing, as described in Conditions No. 49 and 50. Following the review, the licensee shall develop a 6-year schedule for maintenance, rehabilitation, and reconstruction.

This is a mandatory requirement of the October 18, 2006 FERC Order Issuing New License

Basis for Priority:

EID would not be able to comply with the FERC License, Settlement Agreement and USFS 4(e) Condition requirements.

Project Financial Summary:

Funded to Date:	\$ 304,888	Expenditures through end of year:	\$ 282,098
Spent to Date:	\$ 282,098	2023 - 2027 Planned Expenditures:	\$ 80,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 362,098
Project Balance	\$ 22,790	Additional Funding Required	\$ 57,210

Description of Work	Estimated Annual Expenditures					
	2023	2024	2025	2026	2027	Total
Survey	\$ 70,000					\$ 70,000
Reporting		\$ 10,000				\$ 10,000
TOTAL	\$ 70,000	\$ 10,000	\$ -	\$ -	\$ -	\$ 80,000

Estimated Funding Sources	Percentage	2023	Amount
Water Rates	100%		\$47,210
			\$0
			\$0
Total	100%		\$47,210

Funding Comments:

Project Number: 07006H
Project Name: FERC: C51.5 and C51.7 RM USFS Payments
Project Category: Regulatory Requirements

Priority: 1 **PM:** Certiberi **Board Approval:** 11/14/22

Project Description:

Required by the FERC License, Settlement Agreement, and USFS 4(e) Condition 51, which in part, requires the District to provide funding for the following activities:

a. Special Use Administration Funding: The licensee shall annually pay, by October 1, the amount of \$4,800 (year 2002 cost basis) to provide for performing monitoring and permit compliance assurance for the campground concessionaire special use permits at Caples Lake Campground and Silver Lake East Campground. The costs shall be escalated based on the U.S. Gross Domestic Product – Implicit Price Deflator (GDP-IDP).

b. Dispersed Area Patrol Funding on Lands Affected by the Project: The licensee shall annually pay, by October 1, \$25,000 (year 2002 cost basis). The cost shall be escalated based on the U.S. Gross Domestic Product – Implicit Price Deflator (GDP-IDP). These funds are to provide for patrol and operation of non-concessionaire developed and dispersed recreation facilities, as well as trails and other locations utilized by visitors to the Project, within and adjacent to the Project boundary. The licensee shall annually provide a boat and operator on Caples Lake and Silver Lake at least twice each season (time to be determined by mutual agreement between the licensee and the FS) to assist the FS in policing the shoreline along Silver Lake and Caples Lake, and to clean up litter.

Funding under this CIP is required to pay the annual fees to the USFS for special use administration and dispersed area patrol on USFS lands affected by the Project, and for capitalized labor to patrol the shoreline and clean up litter at Silver Lake and Caples Lake.

Basis for Priority:

EID would not be able to comply with the FERC License, Settlement Agreement and USFS 4(e) Condition requirements.

Project Financial Summary:

Funded to Date:	\$ 621,753	Expenditures through end of year:	\$ 619,428
Spent to Date:	\$ 617,428	2023 - 2027 Planned Expenditures:	\$ 281,030
Cash flow through end of year:	\$ 2,000	Total Project Estimate:	\$ 900,459
Project Balance	\$ 2,325	Additional Funding Required	\$ 278,706

Description of Work	Estimated Annual Expenditures					Total
	2023	2024	2025	2026	2027	
Fees	\$49,195	\$50,671	\$52,191	\$53,682	\$55,292	\$261,030
Staff time	\$ 4,000	\$ 4,000	\$ 4,000	\$ 4,000	\$ 4,000	\$20,000
TOTAL	\$ 53,195	\$ 54,671	\$ 56,191	\$ 57,682	\$ 59,292	\$281,030

Estimated Funding Sources	Percentage	2023	Amount
Water Rates	100%		\$50,870
			\$0
			\$0
Total	100%		\$50,870

Funding Comments:

2023**CAPITAL IMPROVEMENT PLAN Program:****FERC**

Project Number: 10007
Project Name: FERC C51.1 and 51.2 RM Caples Auxiliary Dam and Boat Launch
Project Category: Regulatory Requirements

Priority: 1 **PM:** Certiberi **Board Approval:** 11/14/22

Project Description:

Required by the FERC License, Settlement Agreement, and the USFS 4(e) Condition 51, which, in part, requires the District to provide funding for the following activities:

1. The licensee shall be responsible for one-half of the following maintenance at the Caples Lake Auxiliary Dam Parking Area: a) routine cleaning, repair, and maintenance of all constructed features, b) toilet pumping, c) trash removal/litter pick up at the site, d) maintenance of the signboards, and e) vegetation management.

2. The licensee shall be responsible for operating and maintaining the boat launching ramp, associated parking lot, and other public facilities constructed at this site for the term of the license. The licensee shall also be responsible for maintenance of signboards. The USFS shall be responsible for maintaining the information on those signboards to USFS standards.

Funding under this CIP is required to pay for services, capitalized labor, and materials necessary for operations and maintenance activities at the Caples Lake Auxiliary Dam parking area and at the Caples Lake Boat Launch.

Basis for Priority:

EID would not be able to comply with the FERC License, Settlement Agreement and USFS 4(e) Condition requirements.

Project Financial Summary:

Funded to Date:	\$ 294,000	Expenditures through end of year:	\$ 264,472
Spent to Date:	\$ 264,472	2023 - 2027 Planned Expenditures:	\$ 200,000
Cash flow through end of year:		Total Project Estimate:	\$ 464,472
Project Balance	\$ 29,528	Additional Funding Required	\$ 170,472

Description of Work	Estimated Annual Expenditures					Total
	2023	2024	2025	2026	2027	
Services	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$ 125,000
Staff time	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 50,000
Materials	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 25,000
Construction						\$ -
TOTAL	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 200,000

Estimated Funding Sources	Percentage	2023	Amount
Water Rates	100%		\$10,472
			\$0
			\$0
Total	100%		\$10,472

Funding Comments:

2023

CAPITAL IMPROVEMENT PLAN Program:

FERC

Project Number: 07010H
Project Name: FERC: C15 Pesticide Use
Project Category: Regulatory Requirements

Priority: 1 PM: Mutschler Board Approval: 11/14/22

Project Description:

Mandatory requirement of the FERC license. Funding is requested to implement the integrated pest management plan (IPMP). The IPMP addresses pesticide use at EID facilities within the jurisdiction of the El Dorado National Forest (ENF) and Lake Tahoe Basin Management Unit (LTBMU).

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license and USFS 4(e) condition 15.

Project Financial Summary:

Table with 4 columns: Category, Amount, Description, Amount. Rows include: Funded to Date (\$948,000), Expenditures through end of year (\$942,426), Spent to Date (\$882,426), 2023 - 2027 Planned Expenditures (\$410,000), Cash flow through end of year (\$60,000), Total Project Estimate (\$1,352,426), Project Balance (\$5,574), Additional Funding Required (\$404,426).

Table with 7 columns: Description of Work, 2023, 2024, 2025, 2026, 2027, Total. Rows include: Implementation (\$65,000), Equipment / Supplies (\$15,000), Develop Plan (\$10,000), and a TOTAL row (\$90,000).

Table with 4 columns: Estimated Funding Sources, Percentage, 2023, Amount. Rows include: Water Rates (100%, \$84,426), and a Total row (100%, \$84,426).

Funding Comments:

EL DORADO IRRIGATION DISTRICT

SUBJECT: Overview regarding condition of District storage reservoirs and tanks.

PREVIOUS BOARD ACTION

None

BOARD POLICIES (BP), ADMINISTRATIVE REGULATIONS (AR) AND BOARD AUTHORITY

BP 0010 District Mission Statement

BP 5010 Water Supply Management

SUMMARY OF ISSUE

The District operates and maintains over 50 above ground storage reservoirs and tanks in the drinking water, wastewater, and recycled water systems. Storage reservoirs and tanks are critical to the reliable operation of a water system and provide backup storage for fire flow, planned and unplanned outages, and other emergencies. On a daily basis, storage tanks assist in managing water flow and pressure in each of these systems. Some storage tanks located at our treatment facilities also assist in treatment process control and operations. The condition of each storage reservoir varies depending on age, environment, material, and construction methods. Recent inspections and preventative maintenance projects have illustrated the advancing deterioration of these assets. Additional sustained reinvestment in this infrastructure is necessary to maintain service reliability for our customers and to manage overall maintenance and repair costs. Staff will provide an overview of District storage facilities and specific examples of recent projects to illustrate the costs and operational impacts of deferred maintenance.

BACKGROUND/DISCUSSION

The following table lists the District’s storage tanks and reservoirs by type. These reservoirs range in size from 60,000 gallons to 5.5 million gallons.

Table 1 – Summary of District Tanks/Reservoirs

Reservoir Type	Number
Welded steel tank	31
Welded steel tank with aluminum dome	1
Bolted steel tank	6
Glass infused bolted steel tank	2
Concrete tank/reservoir	5
Hypalon covered reservoir	7
TOTAL	52

The various types of tanks/reservoirs currently in service are a reflection of the District’s long history in terms of financial capacity for investments at the time of construction, annexations of existing water systems and facilities, and regulatory compliance factors. The construction of many of the District’s storage facilities (Reservoirs 1-12 and Reservoirs A-C) were originally earthen lined and uncovered reservoirs when the Bureau of Reclamation constructed them from 1961-1975. With the 1974 passage and subsequent amendments to the Safe Drinking Water Act

in 1986 and 1996 the use of uncovered, unlined drinking water reservoirs was no longer acceptable. The District did install seven hypalon lined and covered reservoirs for some of the uncovered reservoirs in the late 1980's and early 1990's. However, due to general lack of progress and deferrals in eliminating the uncovered reservoirs, in 1998 the District received Compliance Order NO. 01-09-98-ORD-001 (Order) by the State of California Department of Public Health (now State Water Resources Control Board - Division of Drinking Water) (DDW), directing the District to abandon use of all uncovered reservoirs and to replace equivalent storage with tanks constructed of steel or concrete. Upon receiving the Order, the District began a period of accelerated replacement of all remaining uncovered reservoirs, primarily replacing these uncovered reservoirs with welded steel tanks.

The Order was amended in 2002 with the additional directive to abandon the use of all floating covered drinking water reservoirs and similarly replace the storage capacity. In 2008, however, the California Waterworks Standards were revised and adopted, which allowed the continued use of floating-covers as an approved method of drinking water storage as long as the reservoir is constructed, operated, and maintained in accordance with American Water Works Association (AWWA) published standards. Since the adoption of the 2008 Waterworks Standard, the District worked with DDW to close the Order. As a requirement of the closure and in accordance with AWWA published standards, the District conducted a series of membrane covered storage facility evaluations to develop the *Floating Cover Reservoir Operations and Maintenance Manual (Manual)*. The *Manual* sets forth certain inspection and cleaning schedules to ensure safe and reliable operation of the public water system. DDW approved this document in April of 2018 during closure of the Order and staff continues to follow the maintenance schedule set forth in the *Manual*. These covers are discussed in further detail below.

Welded Steel Storage Tanks

Today, more than half of the District storage facilities are welded steel tanks. The District's 32 welded steel storage tanks range in age from 13 to 63 years. The District's goal and industry standard for welded steel tanks is to complete a recoating every 15 years to minimize any need for structural repair and maintain the normal life expectancy. The interior of each steel storage tank is inspected at least once every 5 years. During each inspection the diver conducts an in depth review of the structure, identifying any deficiencies that may have arisen since the last inspection. Unfortunately, these inspections have identified areas of significant coating failure and in some cases delamination and/or failure of structural steel and steel roof components that have accumulated on the tank floor. While the debris is removed during the inspection/cleaning process consistent with drinking water standards, it signals a larger problem. Once the protective coatings on the interior and exterior surfaces have failed, the steel tanks are susceptible to corrosion, which is an irreversible process. The only way to treat a protective coating that has failed is to fully remove the coating to bare metal and recoat. If the coating failure is left untreated, the steel structure will eventually be compromised, repair costs will escalate, and ultimately the tank would require complete replacement.

The District constructed 16 of its largest welded steel tanks in response to the compliance order between 2000-2006. These tanks are all now due or past due for their first preventative maintenance recoating cycle. This concentrated period of construction presents a challenge, both in terms of cost normalization and staffing resources for project management when scheduling subsequent preventative maintenance cycles. The typical recoating window for a storage tank to be offline is approximately 8 months. However, with increased corrosion the duration typically extends beyond 1 year to properly address the advanced corrosion and conduct structural replacements of failed components that have advanced beyond the state of repair. Further

complicating the repair operations is the fact that not all storage locations have redundancy, which constrain operations during the repair and impose schedule limitations to avoid high demand periods that can result in additional project costs.

As staff shared with the Board during the 2023-2024 operating budget and 2023-2027 financial plan processes, recent experiences have illustrated the District must increase its investment in maintenance and recoating of welded steel storage tanks. Due to financial constraints and lack of immediate operational impact, these expenses are often deferred for repairs that require immediate attention. However, the consequences of such deferrals are beginning to manifest themselves through increased structural repairs. A few recent examples are highlighted below.

Reservoir 3

The District recently has experienced additional costs at multiple facilities associated with extending the recoating windows. Reservoir 3 located on the north side of Placerville was constructed in 1999. As a result of deferred maintenance due to higher priority needs, the facility required a full replacement of the roof with an aluminum dome due to the deterioration of the internal coating. The original coating during the 2016 repair had nearly completely delaminated from the roof, rafters, and outer ring causing extensive damage from corrosion. The District constructed a replacement aluminum dome to maximize the life of the tank at the most economic rate. Based upon bid unit costs received for the project, staff estimated that a recoating project completed prior to the significant coating failure would have resulted in completing the project at approximately half of the actual costs and would have been completed in a much quicker timeframe. The project costs and estimated project alternative costs, represented in 2023 Net Present Value, are displayed in Table 2 below.

Table 2 – Reservoir 3 Cost Alternatives

Project Alternatives	2016 Project Costs	2023 Net Present Value	Net Present Value Cost Per MG
Reservoir 3 – Aluminum Dome And Coating	\$1,020,776	\$1,262,311	\$841,540
Reservoir 3 – Recoat Of Steel Structure Only	\$548,683	\$678,512	\$452,341

Reservoir 2/2A

Another similar example of deferred maintenance costs to welded steel tanks is the Reservoir 2/2A facility in Camino. These tanks, which the District recoated in 2020, still had the original coating from 2004 when coating applications did not have the strict oversight applied through staff's current project management procedures. Due to the coating failures in both tanks, various structural replacements were required before recoating could occur. On Reservoir 2, the entire roof, roof rafters, and support girders were replaced due to the advanced corrosion beyond repair. The costs associated with Reservoir 2 are shown below in Table 3. Using the same methodology described above, staff estimates the District was required to spend over double the cost repairing and ultimately replacing major components of the structure due to delaying the recoating of Reservoir 2 until several years after the coating was first observed visibly delaminating from the steel structure. Reservoir 2A similarly required additional structural repair during the recoating of the tank including complete inner rafter replacement as well as numerous middle and outer rafters. Reservoir 2A did not require the same level of structural repair as Reservoir 2, which staff believe can be attributed to having more detailed paint inspection during initial construction according to District records. The tanks were constructed under one contract and during the

project there was coating inspection. However, the inspection did not adequately administer the specifications for the project thus leading to the significant coating failure and subsequent structural repair. The costs associated with Reservoir 2A below in Table 3.

Table 2 – Reservoir 2 and 2A Cost Alternatives

Project Alternatives	2020 Project Costs	2023 Net Present Value	Net Present Value Cost Per MG
Reservoir 2 – Roof Replacement And Coating	\$4,287,451	\$4,696,098	\$853,836
Reservoir 2A – Structural Repair And Coating	\$2,404,557	\$2,757,469	\$501,358
Reservoir 2 Or 2A – Recoat Of Steel Structure Only	\$1,854,600	\$2,126,796	\$386,690

Reservoir 7B

Reservoir 7B was originally constructed in 2004 and recoated in 2014. Similar to the challenges that occurred with the original construction and recoating of many of the District tanks during that era, it appears from a review of District records that construction specifications were not adequately enforced during application of exterior coating allowing premature failure. Due to this fact, the external coating of Reservoir 7B is in need of full replacement. The internal coating of the tank was completed within specification and is in excellent condition, but the exterior recoating must be replaced before irreversible steel rusting requires replacement of the roof.

Bass Lake Tanks

Finally, the District recently bid the recoating of Bass Lake Tanks, which included the full recoating of Tank 2. Bass Lake Tanks 1 and 2 were originally constructed in 2005. These tanks have a combined storage of 8.2 million gallons (4.1 million gallons each) and represent a major water transmission hub in delivering water from eastern supplies to Cameron Park and El Dorado Hills, particularly during periods of high demand. The costs associated with the recoating of Tank 2 are shown below. Based upon recent inspections, staff have confirmed coating failure is minimal at this facility. As evident by the cost comparison with earlier projects, the District’s ability to recoat these tanks prior to complete coating failure, and prior to structural damage occurring, is a significant cost savings allowing these funds to be allocated to other important preventative maintenance projects. Both Bass Lake Tanks 1 and 2 received improved coating inspection to other District reservoirs during initial construction, which in turn has minimized the structural repairs required during the recoating of the tanks.

This inspection process continues to be improved. For example, as noted during the January 23, 2023 Board meeting, during the recoating of Bass Lake Tank 1 the top flange of the rafters was found to only have the original factory red primer during its recoating in 2018. The District now requires all roof rafters be top coated by wedging the roof to allow adequate coating to be applied, which will extend the life of the roof and rafters by minimizing the potential for corrosion to occur.

Table 3 – Bass Lake Tank 2 Recoating Costs

Project	2023 Project Cost	Cost Per MG
Bass Lake Tank 2 – Recoat Of Steel Structure Only	\$1,854,600	\$452,341

Bridlewood Tank

The District is developing a plan to recoat Bridlewood Recycled Water Tank, which is a 4 million gallon tank originally constructed in 2003. The recycled water system has a limited duration for shutdown due to irrigation demands. Therefore, staff must first implement a bypass system that will continue to meet customer demands while the tank is offline for recoating. That effort is currently underway. Based upon the most recent interior and exterior inspection of this facility in 2021, staff anticipates some structural repair will be required due to the deterioration of the internal coating above the high water line. Therefore, staff is anticipating this project to last approximately eight to twelve months, which is longer than the low demand time frame for recycled water. Additionally, the low demand time for recycled water falls during winter months, which are the most challenging time for performing tank recoating projects. Performing recoating projects during the wet time of year increases the need for dehumidification and heating which adds an element of potential failure if either of these fails during the night. This also adds additional time to the project as heating and dehumidifying is not as efficient as dry conditions and requires routine maintenance to make sure that all coatings are properly adhered to the structure.

Welded Steel Tank Capital Replacement Projects

The District has one welded steel tank (Reservoir 6) listed for replacement in the 2023-2027 Capital Improvement Plan (CIP). The 3.5 million gallon tank was built in 2000 and has not been recoated. Unfortunately during the most recent inspection of this facility in 2022, staff identified significant advancement in corrosion since it was first observed during the 2013 inspection and updated during the 2017 tank cleaning. Based upon the 2022 interior inspection and cleaning results, staff is recommending a full replacement due to the costs of the structural repairs that would be necessary. This planned replacement is currently scheduled for 2025 at an estimated cost of approximately \$4.7 million.

Reservoir 4 is not currently included in the five year CIP; however, upon the recent dive inspection in January 2023 severe corrosion was found to be occurring on the roof, rafters, and interior of the tank shell above the high water line. The inspection of the tank during the prior five year inspection cycle did not indicate this level of coating failure. However, due to the extensive delamination the corrosion has increased substantially. Staff will review the tank in greater detail prior to the next CIP cycle and determine when it should be repaired and likely upgraded with an aluminum dome depending on the condition of the roof panels and support structure.

Bolted Steel Storage Tanks

The District has 8 bolted steel tanks - 6 of the tanks are epoxy lined and coated, and 2 are fiberglass lined and epoxy coated. Bolted steel tanks cannot be recoated due to the thin steel structure and the need to remove the bolts to coat the interface zone between panels. Bolted steel tanks with epoxy coatings typically have an advertised service life of 40 years. It has been the District's experience, specifically with the recent replacement of the Rancho Del Sol and Outingdale lower tanks, that actual service life in this environment is closer to 25 years. The District was able to repair Swansboro tank, originally constructed in 2001, during 2018 by replacing the top stave and roof, as well as installing cathodic protection. The corrosion in Swansboro was limited to top of the tank and no structural challenges were associated with the floor and two lower staves. This repair is anticipated to extend the useful life of the tank to 35 years still short of the projected and advertised 40 year service life.

The District has one planned bolted steel tank replacement (Monte Vista Tank) listed in the CIP for 2027 at an estimated cost of \$3.1 million. The District over the past 10 years has added numerous patches to the Monte Vista tank to stop active leaks. These patches are difficult for the most experienced welders as the steel structure is very thin requiring the welding of the patch to be completed at a very low amperage. The challenge with running so low is that there is a risk of burning through the tank steel with the patch given that the patch needs to be hot enough to bond. Although these repairs have stopped the active leaks, additional leaks continue and the tank has exceeded its design life.

Concrete Storage Tank/Reservoirs

The District currently has 5 concrete storage tanks/reservoirs in service. The concrete storage tanks/reservoirs were installed between 1989 and 2005. The reservoirs (Reservoir A Water Treatment Plant (RESA) Clearwell, El Dorado Hills Water Treatment Plant Clearwell, Reservoir A and Reservoir 12 A/B, respectively) have proven to require less maintenance and upkeep than the steel tanks in the District’s system. The concrete storage reservoirs have only required minimal maintenance for crack sealing since initial installation. Unlike steel tanks, concrete tanks/reservoirs do not need routine coating of the structure to elongate their useful lives.

Prior to recent years, the initial construction cost for a concrete reservoir or tank compared to a steel tank was substantially higher, which likely factored into why the District proceeded with mostly welded steel tanks during the early 2000s except where site specific conditions favored concrete. Due to the increasing costs of steel and required welding, the capital cost difference has significantly decreased and is nearly the same at this time. Importantly, this cost does not take into account the subsequent increased preventative maintenance recoating of the steel tank over the course of its design life. When factored in, the total costs of concrete storage tanks are now less over the useful life of the structure as shown below in Table 4. This comparison is for a 4 million gallon storage tank that anticipates recoating of the welded steel tank every 15 years. This cost is based off of the Bass Lake Tank recoating project and includes a 1% annual increase over the 75 year costs of ownership comparison. The costs for the welded steel tank option does not include any potential structural replacement that may be required in the event of a coating failure. Coating tanks is a difficult and labor intensive process that even with detailed inspection issues can occur between the bonding of the paint and the steel interface. There is no guarantee that a recoating of a steel structure will be issue free for the duration of the 15 years between recoating as has been proven by the current status of the District’s welded steel tanks. These issues with detailed inspection are minimized, however they are not completely removed from the recoating process.

Table 4 – Concrete Tank vs. Welded Tank Cost Comparison

Year	Prestressed Concrete Cost	Welded Steel Tank Cost
0	\$5,100,000	\$4,750,000
15	\$5,150,000	\$6,850,618
30	\$5,200,000	\$9,289,369
45	\$5,250,000	\$12,120,685
60	\$5,300,000	\$15,407,753
75	\$5,350,000	\$19,223,939
Total Cost Of Ownership Over 75 Years	\$5,350,000	\$19,223,939

Hypalon Storage Reservoirs

The District currently has 7 hypalon, or floating membrane cover reservoirs in service. Each of the hypalon covered reservoirs also have a hypalon liner installed on top of earthen backfill or concrete depending on original reservoir construction. Hypalon covered storage facilities require regular, on-going maintenance to ensure that the integrity of the cover is maintained over the service life of the membrane material. Due to the design of floating-covered storage, debris and precipitation gathers and puddles on the floating cover. The accumulation of both debris and precipitation must be removed in order to prevent the potential for cross contamination of the drinking water supply in the event of a floating cover breach, i.e. tear. When hypalon liners leak they do not present in the earthen backfill. Leaks will typically flow to the system underdrain. These leaks require that the reservoir be in service and be dye tested to locate the leak. The dye test is challenging when there is not an obvious location of a tear in the liner. Additionally, the liners placed on the floor of the earthen backfill can have ground water pressure behind them which can put additional stress on the liner causing the potential for leaks to occur and increases the chances for cross contamination.

The District's permit to operate its public water system requires the exterior surface of each of the District's seven floating cover storage facilities to be cleaned no less than two times per year or as directed by DDW. Routine exterior floating cover cleaning and repair is conducted with the reservoir in service utilizing specialized professional diving services for the in-water repairs in strict accordance with drinking water regulations and industry best practices. Due to the age and condition of the floating covers, taking the reservoir offline increases the chance of damaging the cover under its own weight. Therefore, the reservoir must remain in service during repairs. In addition to the age of the structure, the District also limits the operation of the reservoir level throughout the year to minimize movement and stretching of the cover, which would increase the potential of tearing or ripping the cover. The level restriction, due to the condition of the covers, adds to the challenges of managing water age in the distribution system.

The hypalon covers have not been replaced since their installation between 1989 and 1992. Typically, the hypalon covers have a life expectancy of 20-30 years depending on material selection and environment (e.g., UV exposure from sunlight, organic debris such as pine needles). The District must conduct an average of 10 repairs to these hypalon covers each year at an average annual cost of \$200,000. These covers are far beyond their useful lives. Each of these locations needs to be reviewed for storage needs for the future depending on fire flow requirements and future growth to determine the size of the more durable replacement facilities that will be necessary to meet the District's drinking water needs in the decades ahead.

One of these seven reservoirs (Reservoir 1) is currently planned for replacement in the 2023-2027 CIP with design to start this year, and construction to start in 2024. This reservoir is planned be replaced with two separate tanks/reservoirs due to its connection to the water treatment plant operations, including one contact tank/reservoir and one storage tank/reservoir to meet applicable chlorine contact and peak demand storage needs, respectively.

Conclusion/Summary

The District owns and operates 52 tanks and reservoirs throughout its drinking water, wastewater, and recycled water systems. The District's Mission Statement and Guiding Principles guide staff's plans to maintain, and when necessary, propose replacements of system storage to maintain service levels and meet regulatory standards. As illustrated above, each reservoir and tank type comes with its own challenges and expenses for maintenance and repair. Staff evaluates each of these factors when presenting a proposed plan for each facility. Continued deferral of maintenance has led to more expensive repair costs, and sometimes the

need for full replacement. As such, staff is urging a more proactive approach toward these projects, which requires a sustained annual investment to maintain system storage assets and preserve a proactive maintenance schedule. The financial needs of this approach will be integrated with the forthcoming Cost of Service Study to allow the Board to make a fully informed decision in balancing service reliability and health and safety needs with rate affordability.

BOARD OPTIONS

None – Information only.

RECOMMENDATION

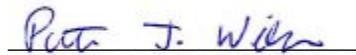
None – Information only.

ATTACHMENTS

None



Kailee Delongchamp
Associate Engineer



Patrick Wilson
Drinking Water Operations Manager



Elizabeth Dawson
Engineering Manager



Dan Corcoran
Operations Director



Brian Mueller
Engineering Director



Jim Abercrombie
General Manager

Condition of Storage Reservoirs and Tank Overview

Information Item

February 13, 2023

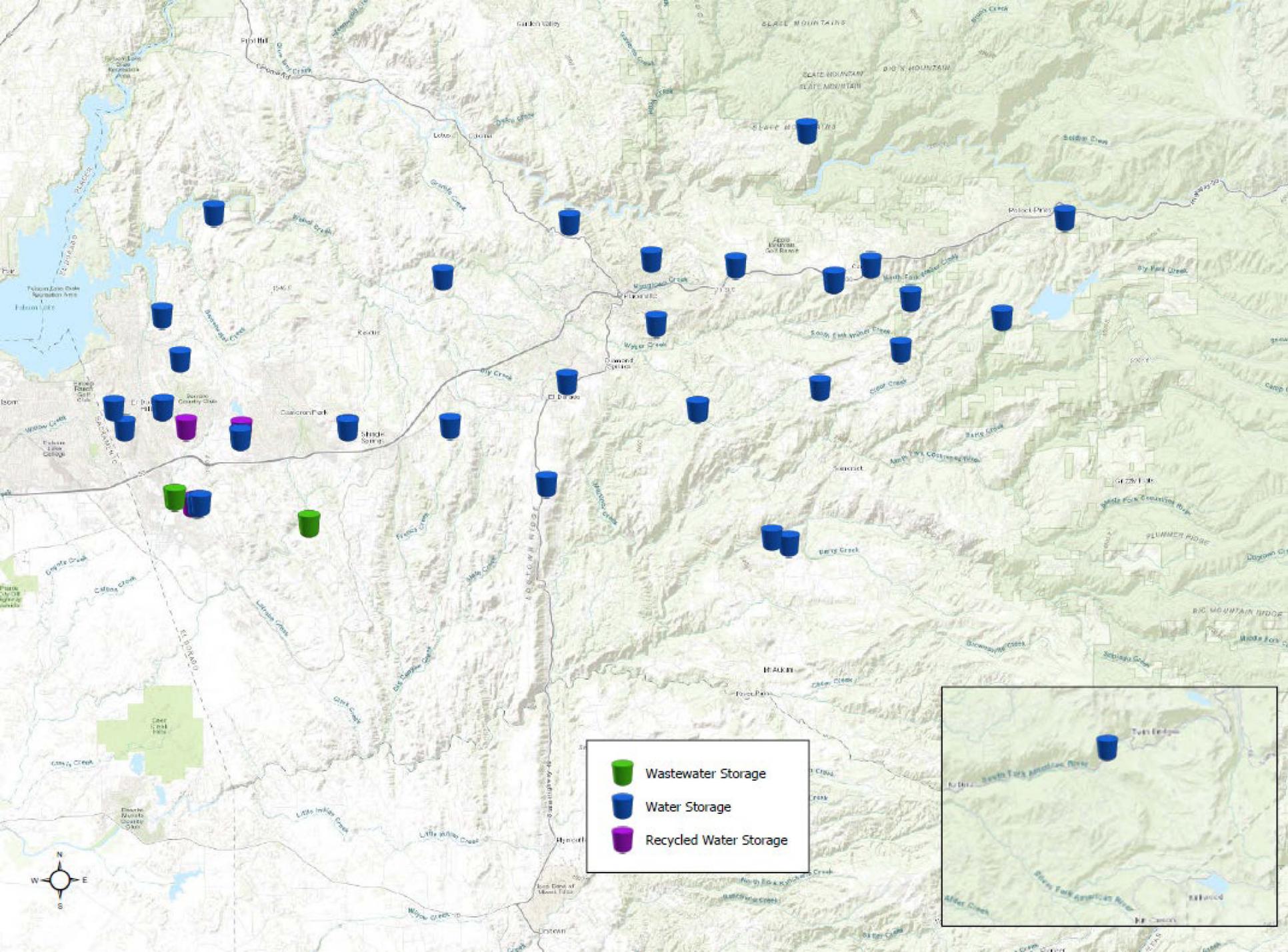


Presentation Outline

- **Overview of existing storage facilities**
 - Water, wastewater and recycled water
- **Technical analysis of failure modes**
- **Current preventative maintenance**
- **Current and past Capital Improvement Plans**

Summary of District Storage

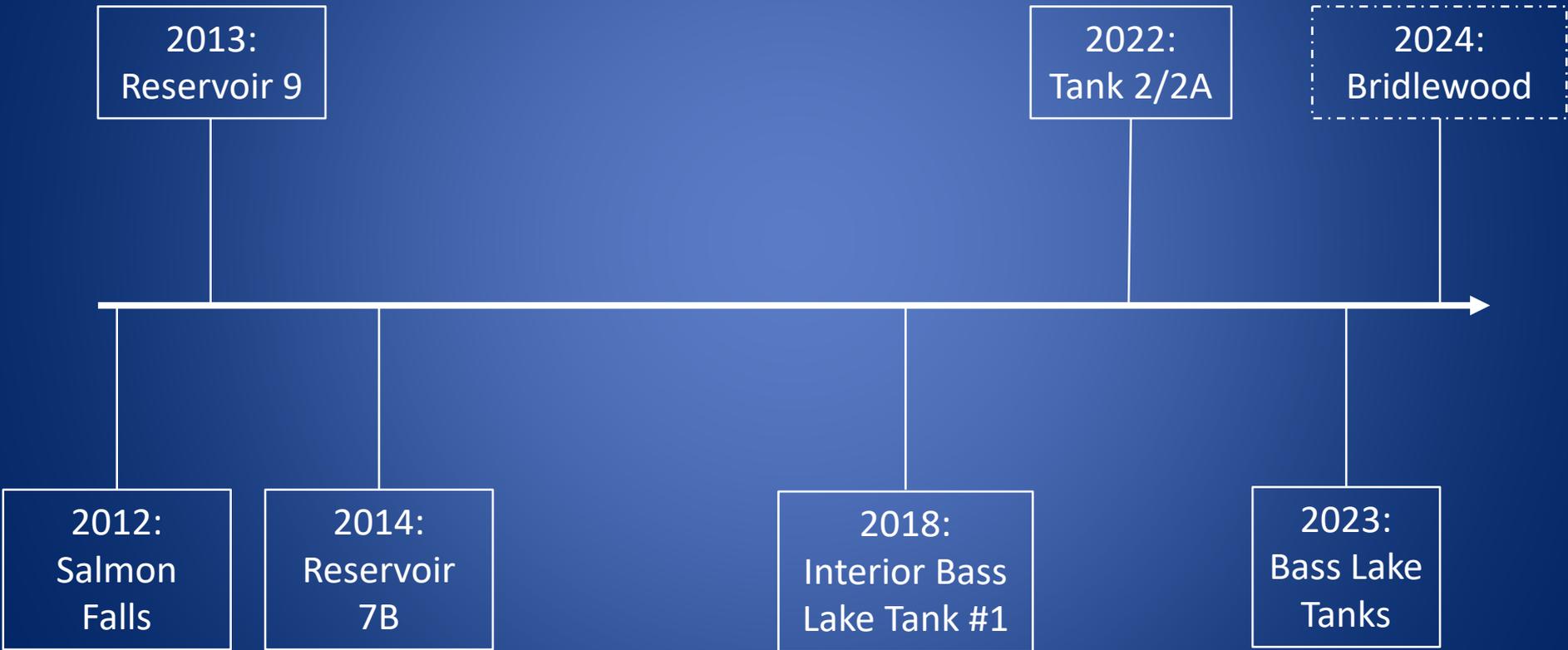
Type	Number
Welded steel tank	31
Welded steel tank with aluminum dome	1
Bolted steel tank	6
Fiberglass lined bolted steel tank	2
Concrete tank/reservoir	5
Hypalon lined and covered reservoir	7
TOTAL	52



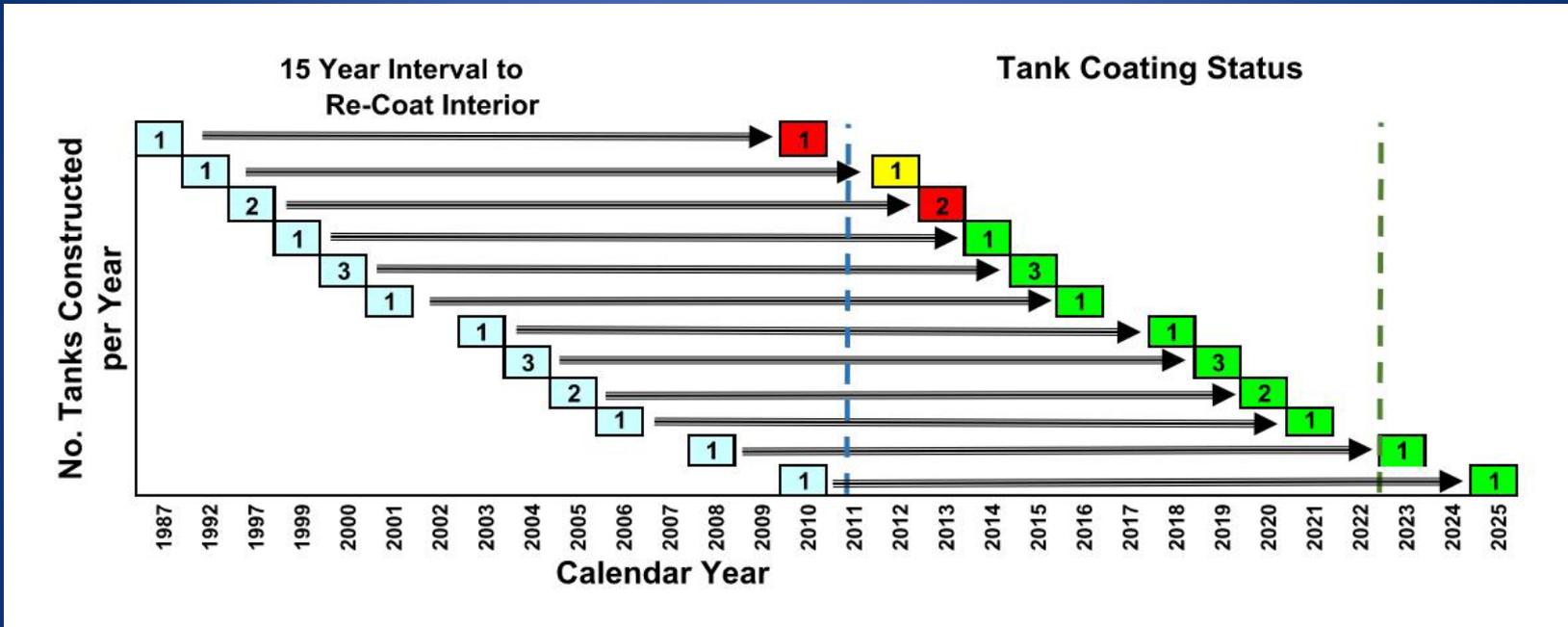
Welded Steel Storage Tanks

- **32 tanks**
 - 1 aluminum dome
 - Range in age 13 to 63 years
 - 16 constructed between 2000-2006
- **Industry standard recoat every 15 years**
 - District has not consistently met this standard
- **Dive inspection and cleaning every 5 years**
 - District has consistently met this standard

Recoating History



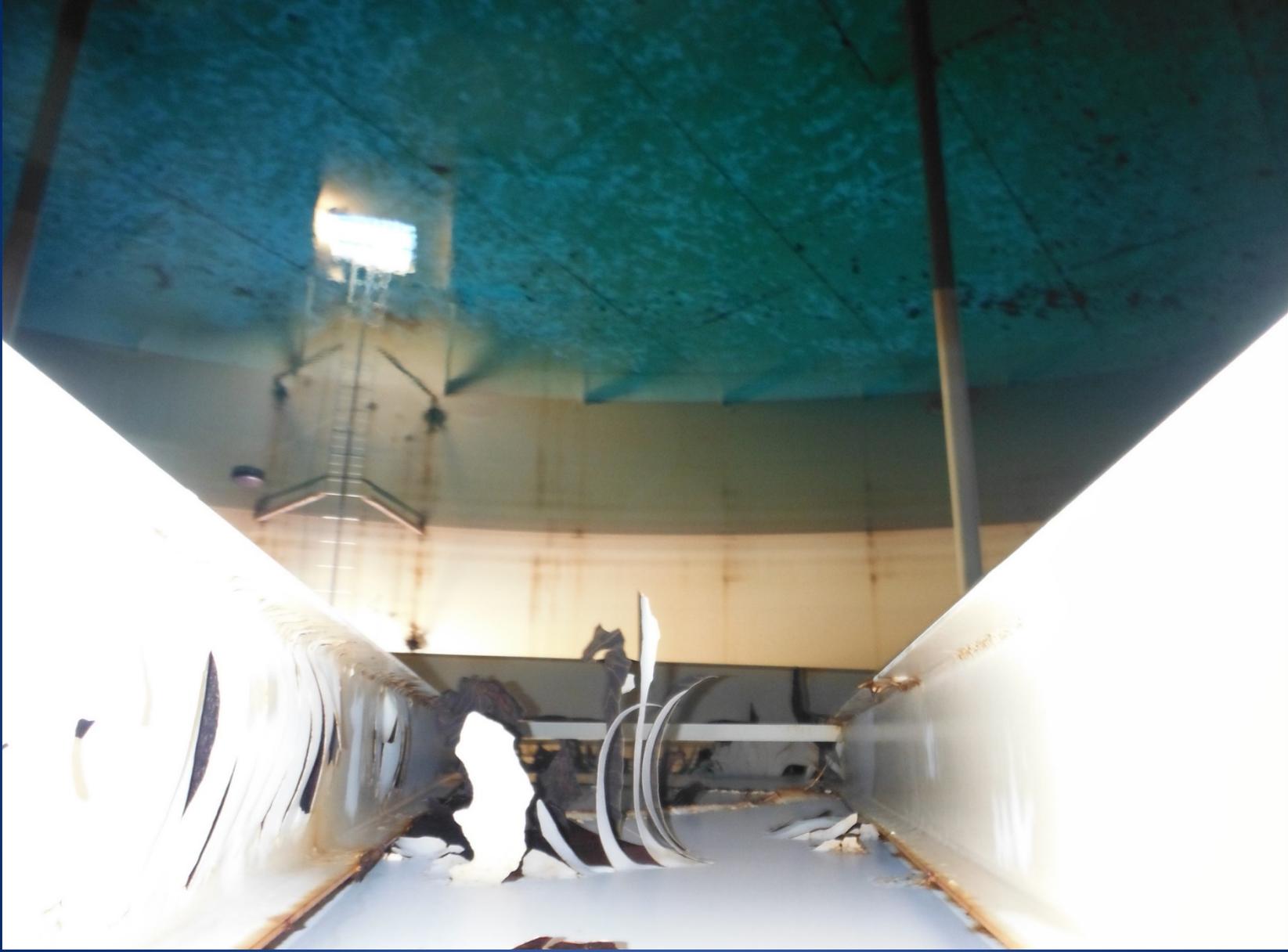
2011 Water Distribution Tanks Recoating Plan



- 15 recoating projects between 2011 & 2023
 - District has performed 5 recoatings

Reservoir 3





Reservoir 3

Reservoir 3



Reservoir 2/2A



Reservoir 2/2A



Reservoir 2/2A



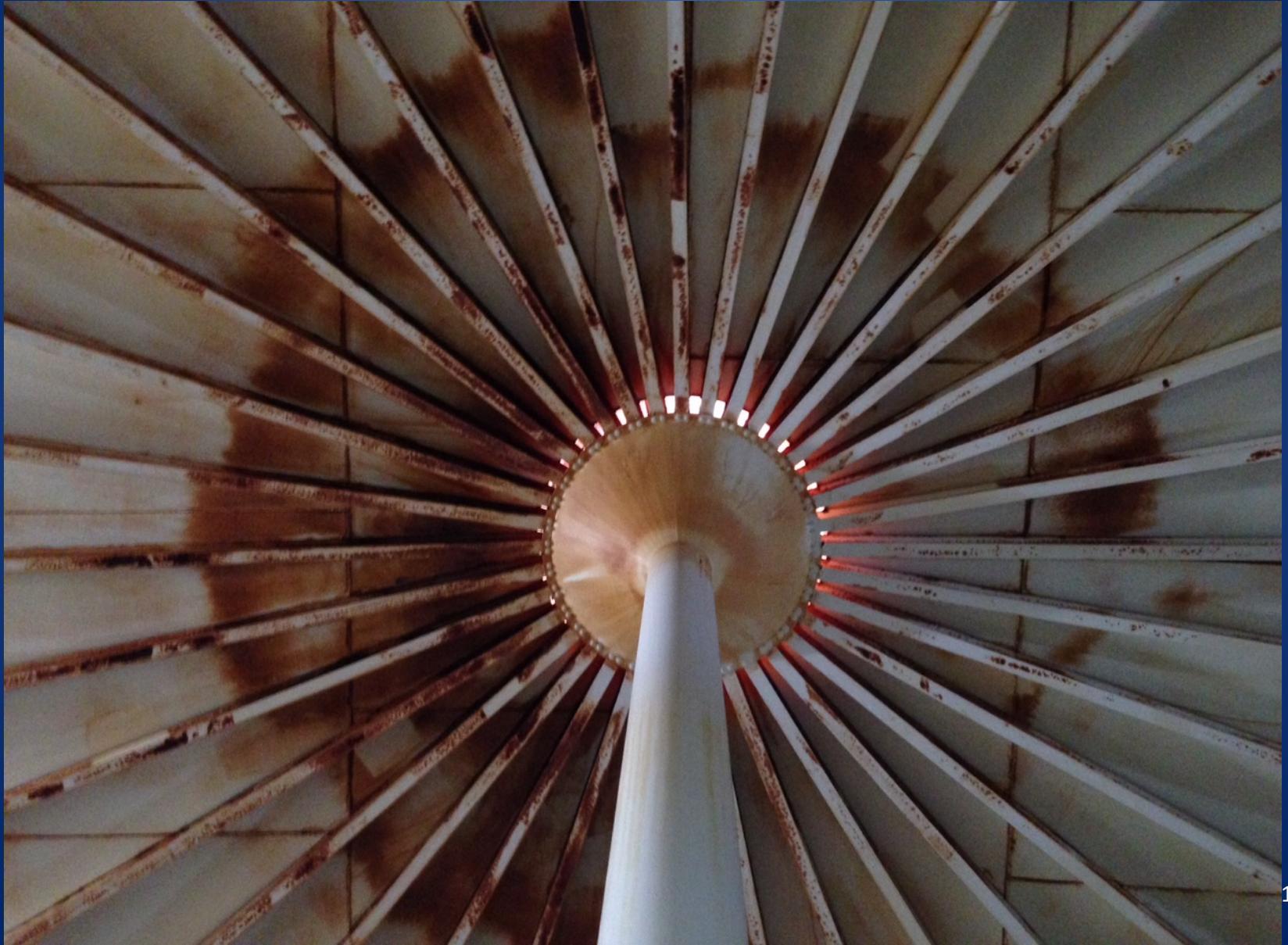
Reservoir 2/2A



Bass Lake Tanks



Bass Lake Tanks



Bass Lake Tanks



Welded Steel Recoating Costs

Project Alternative	Project Cost (Construction Year 2020)	2023 Net Present Value	Net Present Value Per Million Gallon
Reservoir 2 – Roof Replacement & Coating	\$4,287,451	\$4,696,098	\$853,836
Reservoir 2A – Structural Repair & Coating	\$2,404,557	\$2,757,469	\$501,358
Reservoir 2 or 2A – Coating of Structure Only	\$1,854,600	\$2,126,796	\$386,690

- Based on bid results from Reservoir 2/2A Recoating Project

Bolted Steel Storage Tanks

- **8 tanks**
 - 2 fiberglass lined
 - 6 epoxy lined
- **Advertised service life 40 years**
 - District's experience – 25 years
- **Cannot be recoated**
 - Thin steel structure
 - Bolts need to be fully removed
- **Dive inspection and cleaning every 5 years**

Outingdale Lower Tank



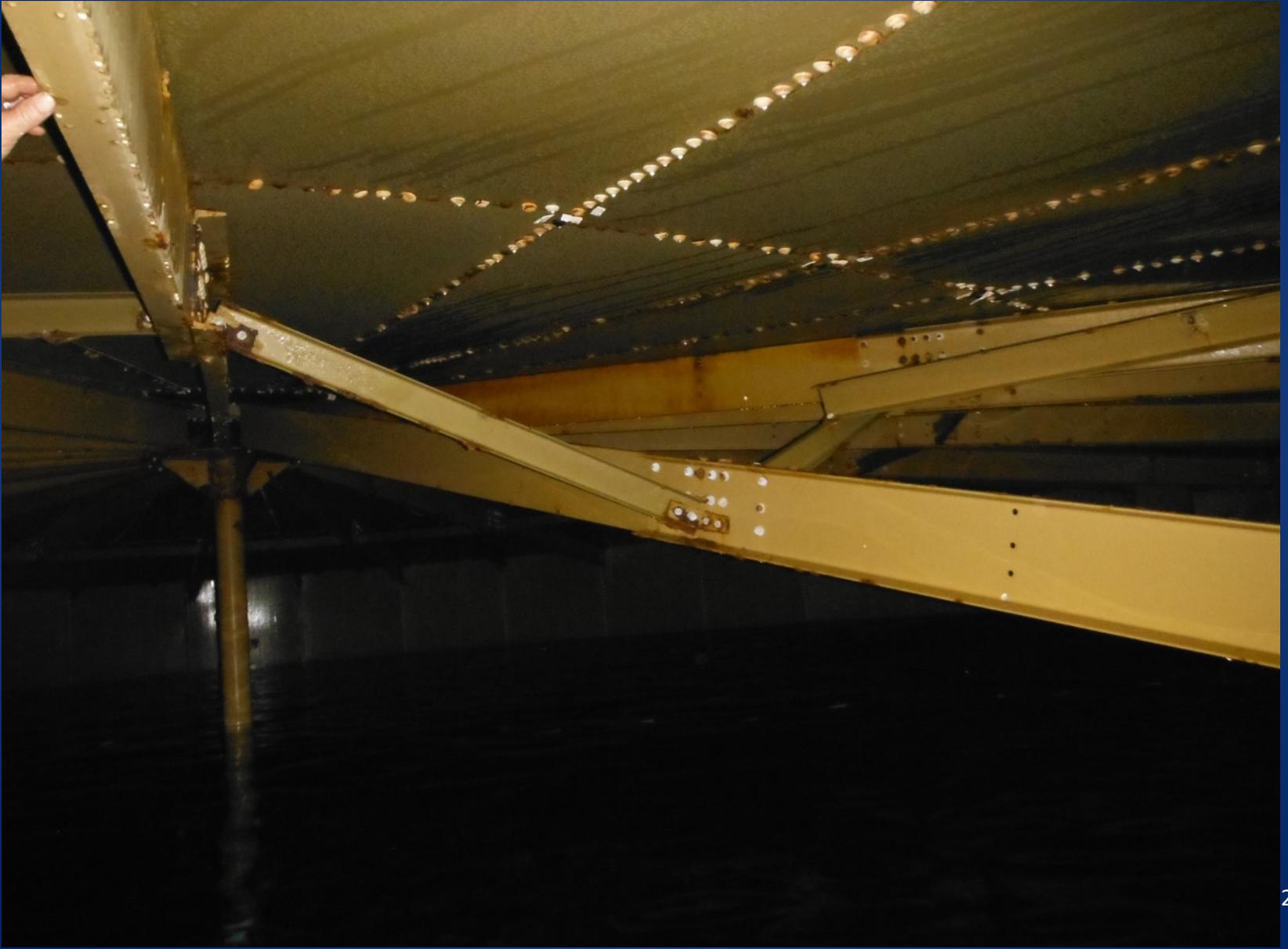
Outingdale Lower Tank



Outingdale Lower Tank



Swansboro Tank



Swansboro Tank



Strawberry Tank



Hypalon Storage Reservoirs

- **7 lined and covered reservoirs**
 - Range in age 31 to 34 years
 - Far beyond design service life
- **Floating Cover Operations Manual**
 - Cover cleaned 2 times a year
- **Extensive repair costs**
 - Average 10 annually
 - Average annual cost \$200,000
- **Dive inspection annually**
- **Cleaning every 5 years**

Reservoir 1



2017/10/13 12:38

Reservoir 11



Concrete Storage Tanks/Reservoirs

- **5 concrete storage units**
 - 2 tanks
 - 1 reservoir
 - 2 water treatment plant clearwells
 - Range in age 18 to 34 years
- **Minimal maintenance costs**
 - Preventative crack sealing
- **Dive inspection and cleaning every 5 years**

Reservoir A



Reservoir 12 A/B

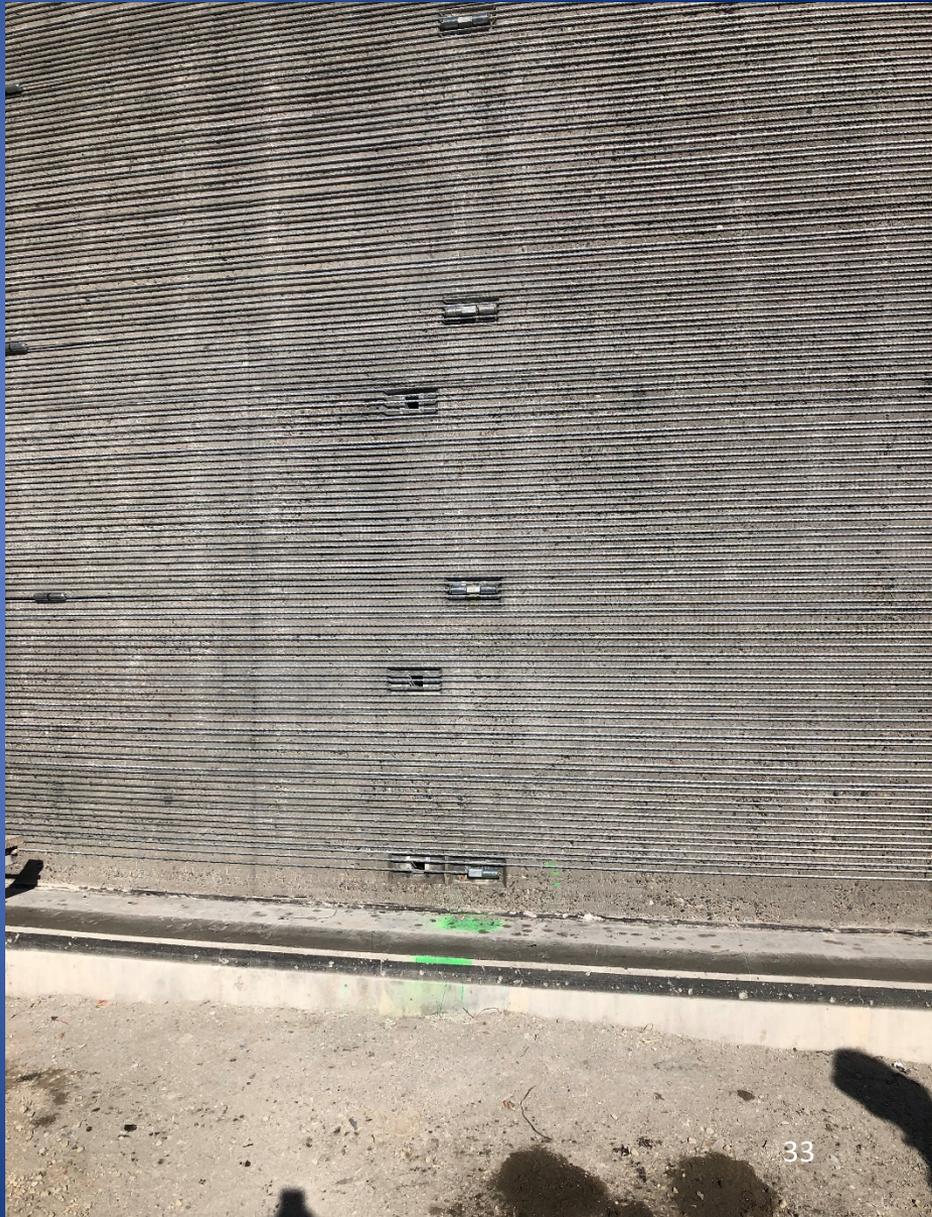


Cumulative Cost Comparison

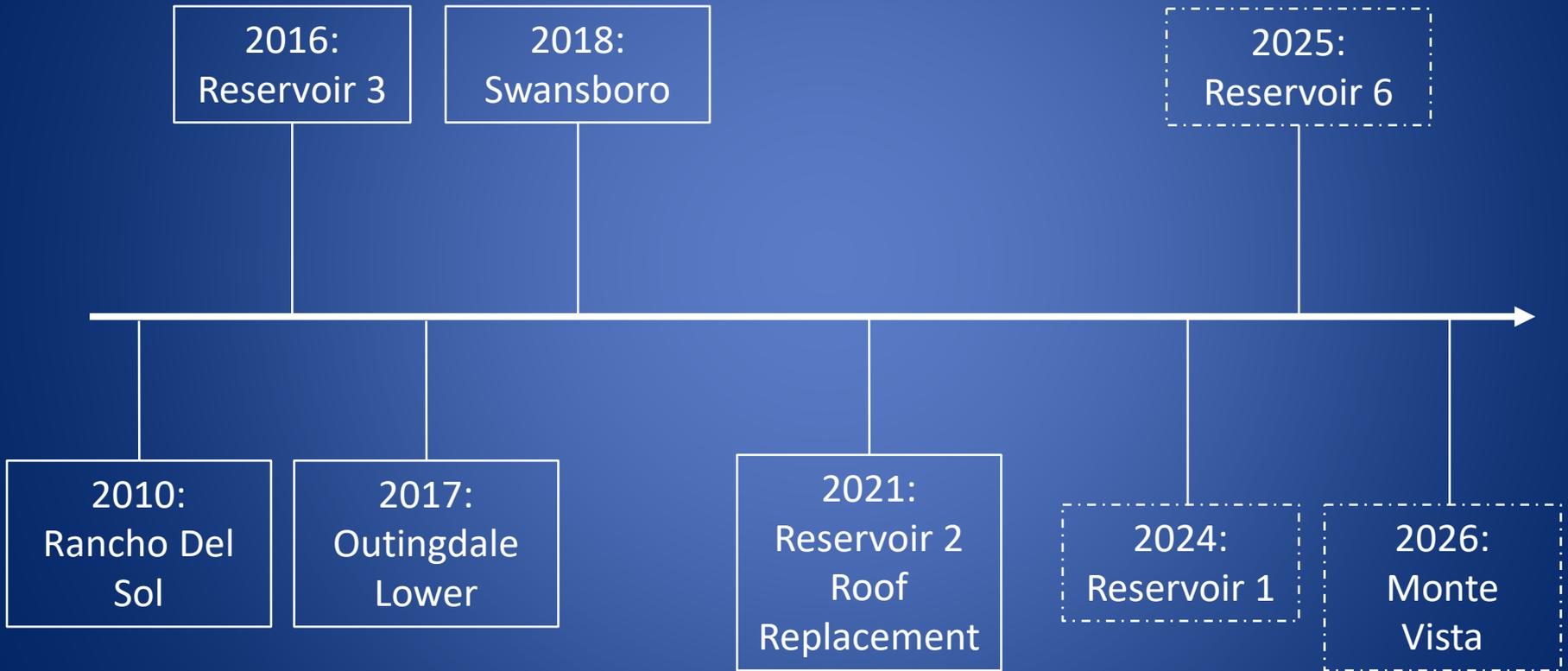
Year	Prestressed Concrete Costs (4 Million Gallons)	Welded Steel Tank Costs (4 Million Gallons)
0	\$5,100,000	\$4,750,000
15	\$5,150,000	\$6,850,618
30	\$5,200,000	\$9,289,369
45	\$5,250,000	\$12,120,685
60	\$5,300,000	\$15,407,753
75	\$5,350,000	\$19,223,939
Total Cost Of Ownership Over 75 Years	\$5,350,000	\$19,223,939

- Based on bid results from 2023 Bass Lake Tank Recoating Project

New Prestressed Concrete Tank



Storage CIP Timeline



Reservoir 4



Conclusion

- **Each material comes with its own challenges**
 - Staff evaluates all factors
- **Mission Statement and Guiding Principles**
 - Maintain service levels and meet regulatory standards
 - Propose replacements when necessary
- **Continued deferral of maintenance**
 - Additional costs for repair
 - Full replacement
- **Proactive approach towards projects**
 - Requires sustained annual investment
- **Financial needs integrated with Cost of Service Study**
 - Balancing service reliability and rate affordability

Questions?



EL DORADO IRRIGATION DISTRICT

SUBJECT: Review of 2022 temporary water transfer proposals and implementation.

PREVIOUS BOARD ACTIONS

May 11, 2020 – Board approved a 2020 temporary water purchase agreement, in substantial form as presented, with Westlands Water District; and authorized the General Manager to execute the Agreement and any related documents necessary to complete the transfer.

January 24, 2022 – Board adopted Resolution No. 2022-004 declaring an intent to retain control of the water conserved as a result of the Upper Main Ditch Piping Project.

June 13, 2022 – Board approved two 2022 Temporary Water Purchase and Sale Agreements with Westlands Water District; and authorized the General Manager to execute the Agreements and any related documents necessary to complete the transfers.

BOARD POLICIES (BP) ADMINISTRATIVE REGULATIONS (AR), AND BOARD AUTHORITY

BP 3050 Financial Condition and Activities

BP 5010 Water Supply Management

SUMMARY OF ISSUE

The Board requested a review of 2022 water transfer proposals and implementation. This agenda item responds to the Board's request.

BACKGROUND/DISCUSSION

Water transfers provide valuable non-rate revenue if, and when conditions are favorable for the sale of water outside of the District's service area. In 2015, the District completed its first successful water transfer. Since that time, the District has conducted additional transfers in 2018, 2020, and 2022. Most recently in June 2022, after reviewing water supply conditions, the Board approved and authorized the General Manager to sign two water purchase and sale agreements (Agreements) with Westlands Water District (Westlands). The Agreements authorized the transfer of up to 2,550 acre-feet (AF) of water not needed for District customers in 2022.

Supplies Proposed For Transfer during 2022

In 2022, the District proposed two water transfers - one involving a reservoir re-operation (Re-Op) transfer of up to 750 AF from Weber Reservoir, and the other involving up to 1,800 AF of water conserved through operation of the Upper Main Ditch Piping Project. The District planned to make up to 750 AF of water available for transfer through the re-operation of Weber Reservoir by releasing water that would otherwise remain stored within the reservoir throughout the summer and fall of 2022. Because Weber Reservoir typically fills and spills in any given year, staff determined that maintaining this water in storage in 2022 was not necessary to ensure adequate supplies in 2023. Additionally, staff determined that Weber Reservoir water was not needed to meet District customer demands in 2022. Under the proposed transfer, the reservoir and downstream rivers/creeks would all operate consistent with their historic flow and release schedules, and the District would meet all applicable rules and requirements, including minimum

lake levels and minimum streamflow requirements. The actual transfer amount from Weber Reservoir, up to a maximum of 750 AF, would depend on hydrology and compliance with all other requirements including minimum releases, and most importantly, fulfillment of District customer water needs.

Under the Conserved Water Transfer Agreement, the District would transfer up to 1,800 AF of pre-1914 water conserved through operation of the new Upper Main Ditch Piping Project during 2022 and potentially into 2023 if possible. The amount to be transferred would be calculated based on the volume of water conveyed through the pipeline to the Reservoir 1 Water Treatment Plant during the term of the Transfer Agreement. Pursuant to the Agreement, the methodology used to determine the amount of water conserved and available for transfer would need to be confirmed by the Bureau of Reclamation (Reclamation) and/or Department of Water Resources (DWR), who would convey the water to Westlands utilizing either the state or federal pumping and conveyance facilities. With or without the proposed transfer, this conserved water, which was previously lost through evaporation and seepage from the ditch, would be used for non-consumptive hydropower production and then returned to the South Fork of the American River and then flow to Folsom Reservoir. This conserved water supply was not an approved source of water to be diverted at Folsom Reservoir by the District under its Warren Act contract with Reclamation, so this supply would not be available to meet consumptive demands at Folsom Reservoir. This proposed transfer would have provided a valuable opportunity to sell the water conserved as a result of the District's investment in the Upper Main Ditch Piping Project, in the first year the new piped system is in operation.

Due to hydrologic and regulatory constraints, ultimately the District transferred 577 AF from Weber Reservoir. Unfortunately, due to ongoing challenges in obtaining agency approvals of a methodology for calculated conserved water savings, the District was unable to transfer any conserved water to Westlands during 2022. However, the District continues to pursue this effort with support from Westlands, and staff recently held a successful meeting with Reclamation representatives where progress was made in this area. Staff remain hopeful the District will obtain resolution on this methodology over the next several months so that conserved water can be transferred in 2023 should there be a market available.

In total, during 2022 the District received \$466,600 in non-rate revenue as a result of the transfer from Weber Reservoir.

Refill Agreements

One significant challenge of executing Re-Op transfers is the requirement for the District to enter into a refill agreement with DWR and Reclamation to avoid impacts to the coordinated operations of the State Water Project (SWP) and Central Valley Project (CVP). Through Re-Op transfers, the District must agree to certain conditions under which it can only refill the volume of water removed from the source reservoir as a result of the transfer at times when it does not negatively impact the refilling of downstream DWR and Reclamation reservoirs during subsequent runoff (refill) periods.

Heading into the 2022 transfer season, the District still maintained a refill reservation in Jenkinson Lake associated with the 2020 transfer from Silver and Caples Lakes due to the ongoing drought. The Silver/Caples Re-Op transfer resulted in greater demands on Jenkinson Lake in 2020 than would have otherwise occurred absent the transfer. Due to several factors i.e. the volume of the refill reservation (7,716AF), the subsequent low runoff during 2021 and 2022, and the ongoing need to meet demands of the District's customers, it was not possible to eliminate the refill reservation during the past two years. This precluded the District from

marketing additional water from these reservoirs in 2022 because the District must always ensure sufficient storage in the reservoir to meet the needs of customers first, and those supplies could have been needed to meet customer demands in 2023 should drought conditions continue. Fortunately, though, that did not occur and the District was able to completely eliminate the entire 7,716AF refill reservation during the significant runoff period of late December 2022 through early January 2023 that filled and spilled the reservoir. Therefore, the District is once again in the position to market portions of these supplies not needed to meet customer demands in 2023 or 2024 if/when a transfer market develops.

The District also bore refill obligations in Weber Reservoir after the 2020 transfer. Fortunately, even though 2021 was a challenging year in many respects, the District was able to capitalize on the limited runoff that did occur and eliminate the Weber refill reservation so water could once again be marketed if it was not necessary to meet customer demands. This also occurred following the 2015 and 2018 transfers when the District was able to eliminate the refill reservations during the subsequent winters. The District was able to successfully market this water during 2022 and refill the reservoir during the same late December 2022 through early January 2023 runoff period, eliminating the refill reservation created from the 2022 transfer. Therefore, the District is also once again in the position to market this supply.

The events over the past several years with extreme hydrology and regulatory hurdles have re-emphasized the variable nature of water transfers as a non-rate revenue stream. Fortunately, the recent runoff conditions have allowed the District to “reset” its water transfer picture for Re-Op transfers. Incremental progress continues to be made in pursuit of future conserved water transfers as well.

BOARD OPTIONS

None – Information only.

RECOMMENDATION

None – Information only.

ATTACHMENTS

None



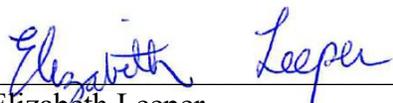
Brian Deason
Environmental Resources Supervisor



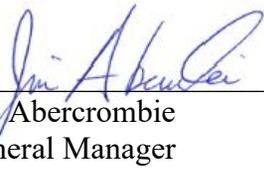
Dan Corcoran
Operations Director



Brian Mueller
Engineering Director



Elizabeth Leeper
Senior Deputy General Counsel



Jim Abercrombie
General Manager

2022 Water Transfer Proposals and Implementation

FEBRUARY 13, 2023

Prior Board Actions

May 11, 2020 – Board approved a 2020 temporary water purchase agreement, in substantial form as presented, with Westlands Water District; and authorized the General Manager to execute the Agreement and any related documents necessary to complete the transfer.

January 24, 2022 – Board adopted Resolution No. 2022-004 declaring an intent to retain control of the water conserved as a result of the Upper Main Ditch Piping Project.

June 13, 2022 – Board approved two 2022 Temporary Water Purchase and Sale Agreements with Westlands Water District; and authorized the General Manager to execute the Agreements and any related documents necessary to complete the transfers.

Summary of Issue

Board requested a review of 2022 water transfer proposals and implementation

Background

- ❖ Water transfers provide valuable non-rate revenue
 - ❖ Subject to demand and verification District customer needs first met
- ❖ First successful water transfer in 2015
 - ❖ Additional transfers in 2018, 2020 and 2022
- ❖ In 2022 Board approved two water purchase and sale agreements (Agreements) with Westlands Water District (Westlands)
 - ❖ Up to 2,550 acre-feet (AF) total

Weber Reservoir Re-Operation

- ❖ 750 AF proposed for transfer from Weber Reservoir
- ❖ Maintaining water in storage in 2022 not necessary
 - ❖ Refills each year
 - ❖ Not needed to meet 2022 demands at Folsom Reservoir
- ❖ Actual transfer would depend on hydrology and regulatory obligations
 - ❖ After fulfilling customer needs

Conserved Water Transfer

- ❖ Up to 1,800 AF of pre-1914 water rights from Project 184
 - ❖ Generated by operation of new Upper Main Ditch Piping Project (Piping Project)
 - ❖ Calculated based on volume of water conveyed through pipeline
- ❖ This supply not approved source at Folsom Reservoir
- ❖ Valuable opportunity to sell water conserved as a result of Piping Project
 - ❖ First year new piped system in operation
- ❖ Methodology to determine amount conserved and available for transfer
 - ❖ Needs confirmation from Bureau of Reclamation (Reclamation)

2022 Recap

- ❖ Ultimately 577 AF transferred in 2022
 - ❖ Hydrologic and regulatory constraints
 - ❖ All water supplied by Weber Reservoir
- ❖ District unable to transfer any conserved water
 - ❖ Ongoing challenges in obtaining agency approvals
 - ❖ Methodology for calculated conserved water savings
- ❖ District continues to pursue this effort with support from Westlands
 - ❖ Successful meeting with Reclamation representatives
 - ❖ Remain hopeful in obtaining resolution on methodology to transfer this year

In total, during 2022 District received \$466,600 in non-rate transfer revenue from Weber Reservoir

Refill Agreements

- ❖ Significant challenge of executing Re-Op transfers
- ❖ Requirement from Department of Water Resources (DWR) and Reclamation
 - ❖ Avoid impacts to coordinated operations of State Water Project (SWP) and Central Valley Project (CVP)
- ❖ District must agree to certain conditions under which it can refill source reservoir after transfer
 - ❖ Avoid impact to SWP and CVP during refill

Jenkinson Lake Refill Reservation

- ❖ 2020 transfer from Caples/Silver Lakes resulted in greater demands on Jenkinson Lake than would have otherwise occurred
 - ❖ 7,716 AF refill reservation
- ❖ District still maintained refill reservation in Jenkinson Lake associated with 2020 transfer from Silver and Caples Lakes
 - ❖ Low runoff during 2021 and 2022
 - ❖ Meet ongoing demands of the District's customers, including during ongoing drought
 - ❖ Precluded District from marketing these supplies in 2022

-
- ❖ Fortunately District able to eliminate entire 7,716 AF during late December 2022 through early January 2023
 - ❖ Filled and spilled Jenkinson Lake while SWP/CVP not impacted
 - ❖ District once again able to market these supplies

Weber Refill Reservation

- ❖ Refill reservation at Weber Reservoir after 2020 transfer
 - ❖ Refill reservation eliminated despite challenging conducting during 2021
- ❖ District was able to successfully market this water during 2022
 - ❖ Refill reservation once again eliminated during same late December 2022 through early January 2023 runoff period
- ❖ District once again able to market these supplies

Year in Review

- ❖ Extreme hydrology and regulatory hurdles over the past several years have re-emphasized the variable nature of this non-rate revenue stream
- ❖ Recent runoff conditions allowed the District to “reset” its water transfer picture
 - ❖ Full volume of potential Re-Op transfers anticipated to be available
 - ❖ Continued incremental progress with conserved water transfers

Board Options

None – Information only



Questions?

EL DORADO IRRIGATION DISTRICT

SUBJECT: Consider ratifying EID General Warrant Registers for the periods ending January 17, January 24 and January 31, 2023, and Employee Expense Reimbursements for these periods.

PREVIOUS BOARD ACTION

The Board ratifies the District’s General Warrant Registers at each regular meeting of the Board.

BOARD POLICIES (BP), ADMINISTRATIVE REGULATIONS (AR) AND BOARD AUTHORITY

Section 24600 of the Water Code provides that no claim shall be paid unless allowed by the Board.

SUMMARY OF ISSUE

District staff notifies the Board of proposed payments via email and requests ratification of the warrant registers at the subsequent regular meeting of the Board. Copies of the Warrant Registers are sent to the Board on the Friday preceding the Warrant Register’s date. If no comment or request to withhold payment is received from any Director prior to the following Tuesday morning, the warrants are mailed out and formal ratification of said warrants is agendized on the next regular Board agenda.

BACKGROUND/DISCUSSION

Current Warrant Register Information

Warrants are prepared by Accounts Payable; reviewed and approved by the Finance Manager, the Director of Finance and the General Manager or their designee.

Register Date	Check Numbers	Amount
January 17, 2023	701967 - 702104	\$1,751,439.50
January 24, 2023	702105 - 702177	\$341,446.83
January 31, 2023	702178 - 702336	\$1,093,211.55

Current Employee Expense Reimbursements

Employee Expenses and Reimbursements have been reviewed and approved by the Finance Manager and General Manager prior to the warrants being released. These expenses and reimbursements are for activities performed in the interest of the District in accordance with Board Policy 12065 and Resolution No. 2007-059.

Additional information regarding Board and employee expense reimbursements is available for copying or public inspection at District headquarters in compliance with Government Code Section 53065.5.

BOARD OPTIONS

Option 1: Ratify the EID General Warrant Registers and Employee Expense Reimbursements as submitted.

Option 2: Take other action as directed by the Board.

Option 3: Take no action.

RECOMMENDATION

Option 1

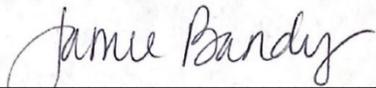
ATTACHMENTS

Attachment A: Executive Summaries

Attachment B: Employee Expense Reimbursements totaling \$100 or more



Ashlie Russell
Senior Finance Assistant



Jamie Bandy
Finance Director



Jennifer Sullivan
Clerk to the Board



Jim Abercrombie
General Manager

January 12, 2023

To: Jim Abercrombie, General Manager
From: Tony Pasquarello, Finance Manager
Via: Jamie Bandy, Director of Finance
RE: Warrant Register Executive Summary Approval

Attached is the summary for January 17, 2023 for your review and approval.

Executive Summary for January 17, 2023 -- \$1,751,439.50:

This summary highlights significant disbursements made by major business activity:

Development Services (Fund 105) – none to report

General District Operations (Fund 110)

- \$19,262—Aqua Metric Sales Company for 82 water meters
- \$9,840—AT&T for phone service
- \$3,676—C & H Motor Parts, Inc. for fire extinguishers and miscellaneous vehicle maintenance supplies
- \$5,341—California Water Efficiency Partnership for 2023 dues
- \$5,527—CDW Government for support renewal and Google Chrome license
- \$33,931—F&M Bank for retention held for Sierra Mountain Construction, Inc.
- \$39,617—Hunt & Sons, Inc. for card lock fuel and fuel deliveries at various locations
- \$17,915—Maze & Associates for audit services for fiscal year 2022
- \$15,612—Pace Supply Corporation for adapters, fire hydrants and other miscellaneous warehouse inventory
- \$12,697—PG&E for electric service
- \$12,586—Western Container Sales for two large storage containers

Engineering Operations (Fund 210)

- \$18,000—CASA for 2023 membership dues
- \$5,415—Zanjero for surface water hydrology modeling update support

Water Operations (Fund 310)

- \$4,660—AWWA for 2023 Membership dues
- \$7,422—Cooks Truck Body for the purchase and installation of two truck beds
- \$14,318—Frank A Olsen Company for four pressure reducing valves and a circuit board
- \$8,965—Pace Supply Corporation for a backflow enclosure, fire hydrant extensions and other miscellaneous operating supplies
- \$116,128—PG&E for electric service
- \$5,590—Rain For Rent for a tank a spill guard rental at Reservoir A
- \$6,835—Univar Solutions USA, Inc. for sodium hypochlorite at Reservoir A

Wastewater Operations (Fund 410)

- \$29,085—Badger Daylighting Corp for excavation services
- \$16,728—CLS Labs for regulatory lab testing
- \$7,873—Doug Veerkamp General Engineering, Inc. for the installation of a storage shed slab at EDHWWTP
- \$6,581—Edward R. Bacon Company, Inc. for a replacement pump for Summit 2 Lift Station
- \$23,027—El Dorado Roofing, Inc. for roof installation at DCWWTP
- \$3,891—Flo-Line Technology, Inc. for a submersible pump, O-Rings, cables and cable seals
- \$6,168—Herc Rentals, Inc. for the rental of a vacuum assisted pump for emergency bypass pumping at Marina Village 1 Lift Station
- \$170,734—PG&E for electric service
- \$3,930—Serpentix Conveyor Corp for belt press conveyor repair parts at DCWWTP
- \$8,940—Solenis, LLC for flocculant at EDHWWTP
- \$4,391—Stratus Environmental, Inc. for groundwater monitoring and reporting services
- \$24,488—Suez Treatment Solutions, Inc. for ultraviolet products at DCWWTP
- \$5,000—Tesco Controls, Inc. for on-call electrical, instrumentation and SCADA motor control centers support
- \$16,509—Univar Solutions USA, Inc. for sodium hydroxide at EDHWWTP and DCWWTP
- \$12,214—Western Container Sales for two large storage containers

Recycled Water Operations (Fund 510)

- \$11,280—PG&E for electric service

Hydroelectric Operations (Fund 610)

- \$4,125—Grainger for a multi-gas detector, safety glasses, electrical insulated gloves, battery packs and other miscellaneous operating supplies
- \$3,219—Hydraulic Power Sales, Inc. to rebuild NFPA cylinders
- \$8,277—PG&E for electric service

Recreation Operations (Fund 710) – none to report

Capital Improvement Projects (Construction Funds 140, 340, 440, 540, 640 and 740)

- \$41,405—Aecom Technical Services, Inc. for trout monitoring services – FERC: C37.1 Fish Monitoring ([Project #06087H.01](#))
- \$16,853—Domenichelli and Associates, Inc. for engineering design services – Motherlode Force Main Replacement Program ([Project #21081.01](#))
- \$9,866—Herwit Engineering for construction engineering and design services:
 - >Project #19033.01 – Reservoir A PLC Replacement (\$6,400)
 - >Project #22038.01 – Reservoir A Valve Replacement (\$3,466)
- \$3,436—Hydraulic Power Sales, Inc. to rebuild NFPA cylinders – Flume 30 Caldor Fire ([Project #17041.02](#))
- \$6,468—Kleinfelder, Inc. for compliance monitoring services – FERC: C37.2 Macroinvertebrate Monitoring ([Project #06088H.01](#))
- \$86,328—MGE Engineering, Inc. for construction engineering services – Flume 45 Abutment Replacement ([Project #17025.01](#))
- \$18,441—Peterson Brustad, Inc. for professional engineering review services – EDM2 Condition Assessment ([Project #STUDY15.01](#))
- \$22,965—Royal Electric Co. for construction services – Headquarters Backup Power Modifications ([Project #21042.01](#))
- \$644,695— Sierra Mountain Construction, Inc. for engineering services (\$678,626) – Flume 45 Abutment Replacement ([Project #17025.01](#)). Retention held \$33,931
- \$6,600—Technical Systems, Inc. for engineering services – Dream Reports Software
- \$65,096—Terra West Construction for slope stabilization and revegetation services – Canal Fire Burned Assessment ([Project #STUDY20.01](#))

January 19, 2023

To: Jim Abercrombie, General Manager
From: Tony Pasquarello, Finance Manager
Via: Jamie Bandy, Director of Finance
RE: Warrant Register Executive Summary Approval

Attached is the summary for January 24, 2023 for your review and approval.

Executive Summary for January 24, 2023 -- \$341,446.83:

This summary highlights significant disbursements made by major business activity:

Development Services (Fund 105) – none to report

General District Operations (Fund 110)

- \$4,014—City of Placerville for water and sewer service
- \$3,619—Underground Construction Co. for a credit balance refund on customer account

Engineering Operations (Fund 210)

- \$3,900—UC Davis for employee courses

Water Operations (Fund 310)

- \$5,332—BSK Associates for drinking water lab analysis for 2022
- \$3,308—Hach Company for a digital controller with sensors
- \$3,224—Hastie’s Capitol Sand And Gravel Co. for rock deliveries

Wastewater Operations (Fund 410)

- \$4,997—Crusader Fence Company, LLC for gate repair services
- \$3,900—Sierra Site Services for pumping services
- \$5,618—Suez Treatment Solutions, Inc. for ultraviolet products at EDHWWTP
- \$4,206—Univar Solutions USA, Inc. for sodium hydroxide at EDHWWTP

Recycled Water Operations (Fund 510) – none to report

Hydroelectric Operations (Fund 610)

- \$3,709—Norcal Molecular, LLC for generator coating and resurfacing material and services
- \$6,650—Sierra Site Services for portable toilet services

Recreation Operations (Fund 710) – none to report

Capital Improvement Projects (Construction Funds 140, 340, 440, 540, 640 and 740)

- \$4,880—A T.E.E.M. Electrical Engineering for electrical services – Reservoir A PLC Replacement (Project #19033.01)
- \$5,388—Aecom Technical Services, Inc. for environmental impact report – Permit 21112 Change in Point of Diversion (Project #16003.01)
- \$11,156—Carollo Engineers, Inc. for construction management services – Folsom Lake Intake Improvement (Project #15024.01)
- \$206,862—DG Granade, Inc. for construction services (\$217,749) – Wastewater Collection Facility Relocation (Project #17034.01). Retention held \$10,887
- \$4,806—Hastie’s Capitol Sand and Gravel Company for rock deliveries – Water Service Line Replacement (Project #22002.01)
- \$13,110—Norcal Geophysical Consultants, Inc. for seismic refraction survey services – Silver Lake Dam Rehabilitation (Project #19031.01)

January 26, 2023

To: Jim Abercrombie, General Manager

From: Tony Pasquarello, Finance Manager

Via: Jamie Bandy, Director of Finance

RE: Warrant Register Executive Summary Approval

Attached is the summary for January 31, 2023 for your review and approval.

Executive Summary for January 31, 2023 -- \$1,093,211.55:

This summary highlights significant disbursements made by major business activity:

Development Services (Fund 105)

- \$3,061—Barsotti Family, LLC for a refund on a deposit payment
- \$14,700—Domenichelli and Associates, Inc. for construction inspection services

General District Operations (Fund 110)

- \$3,013—Angelica Ringland for a credit balance refund on customer account
- \$59,716—Association of California Water Agencies/JPIA for workers compensation insurance
- \$3,607—AT&T for internet service
- \$3,002—C & H Motor Parts, Inc. for miscellaneous vehicle maintenance supplies
- \$3,650—Commerce Printing Service for waterfront newsletter printing
- \$53,900—ESRI Environmental Systems Research Institute, Inc. for annual product support service renewal
- \$15,529—Hunt & Sons, Inc. for card lock fuel and fuel deliveries at various locations
- \$6,163—Intech Mechanical Company, LLC for HVAC repair and maintenance services
- \$10,461—Pace Supply Corporation for various ball valves and water meters
- \$3,173—Powerplan for a fuel filter, filter element and seal repair kits
- \$4,294—Sierra Nevada Tire and Wheel for tires and service calls

Engineering Operations (Fund 210)

- \$29,500—Autodesk, Inc. Labs for water and sewer modeling software

Water Operations (Fund 310)

- \$9,932—Aqua Tech Company for reservoir tank cover cleaning and repairs
- \$4,110—Costa Fencing, Inc. for fence repair services
- \$7,076—Univar Solutions USA, Inc. for sodium hypochlorite at Reservoir A
- \$226,611—U.S. Bureau of Reclamation for Sly Park restoration fees and WIIN Act contract repayment obligation
- \$3,115—USA Bluebook for disclosure signs, chlorine, hoses, disposable wipes and other miscellaneous operating supplies
- \$10,846—Wholesale Trailer Supply for six truck toolboxes

Wastewater Operations (Fund 410)

- \$25,281—Celadon Holdco, LLC for solar electric service at EDHWWTP and DCWWTP
- \$3,711—CLS Labs for regulatory lab testing
- \$4,545—Crusader Fence Company, LLC for fence repair services
- \$8,634—Polydyne, Inc. for polymer at EDHWWTP
- \$13,050—Sweet Septic, Inc. for storm water pumping and hauling services
- \$7,821—Univar Solutions USA, Inc. for sodium hydroxide at EDHWWTP
- \$4,246—USA Bluebook for a turbidimeter and replacement float assembly

Recycled Water Operations (Fund 510)

- \$7,268—Univar Solutions USA, Inc. for sodium hydroxide at EDHWWTP

Hydroelectric Operations (Fund 610)

- \$6,080—Carsten Tree Service for tree removal services
- \$10,371—Pan-Pacific Supply Company for parts and material to assemble and replace bypass valve at hydroelectric powerhouse

Recreation Operations (Fund 710) – none to report

Capital Improvement Projects (Construction Funds 140, 340, 440, 540, 640 and 740)

- \$3,625—Aecom Technical Services, Inc. for environmental impact report – Permit 21112 Change in Point of Diversion (Project #16003.01)
- \$3,662—Apex Underground Supply for pipe splitting tools and expanders – Water Service Line Replacement (Project #22002.01)
- \$21,620—Arrow Fence Company for fence installation services – Woodside Pump Station Generator (Project #18048.09)
- \$233,700—Big Valley Electric for construction services (\$246,000) – Reservoir A programmable Logic Controller Replacement (Project #19033.01). Retention held \$12,300
- \$14,857—Campbell Scientific, Inc. for pressure transducers and data loggers – Canal RTU Replacement Control Sites (Project #19021.01)
- \$51,165—Carollo Engineers, Inc. for engineering services:
 - >Project #STUDY03.01 – Water Treatment Plant Assessments-Reservoir 1 (\$7,931)
 - >Project #STUDY03.02 – Water Treatment Plant Assessments-Reservoir A (\$1,147)
 - >Project #STUDY03.03 – Water Treatment Plant Assessments-EDHWWTP (\$14,739)
 - >Project #STUDY03.04 – Water Treatment Plant Assessment-Strawberry WTP (\$4,521)
 - >Project #STUDY10.01 – Integrated Water Master Plan (\$22,827)
- \$11,618—Domenichelli and Associates, Inc. for engineering design services:
 - >Project #21081.01 – Motherlode Force Main Phase 3 (\$7,198)
 - >Project #17023.01 – Rancho Ponderosa Lift Station Relocation (\$2,860)
 - >Project #21018.01 – 2022 Collection Pipeline Rehabilitation (\$1,560)
- \$31,634—Downtown Ford Sales for a 2022 Ford F-150 – 2023 Vehicle Replacement Program (Project #23003.01)
- \$31,699—ICM Group, Inc. for construction management and inspection services – Wastewater Collection Facility Relocation (Project #17034.01)
- \$3,989—Kleinfelder, Inc. for hydroelectric compliance monitoring services (\$224,664) – FERC: C37.8 Water Temperature (Project #06021H.01)
- \$23,000—Raftelis for consulting services – Hansen 7 Software Replacement (Project #18055.01)
- \$14,631—Water Works Engineers, LLC for modeling, engineering design and bid document preparation services:
 - >Project #STUDY16.01 – Deer Creek Collection System Modeling (\$12,438)
 - >Project #21018.01 – 2022 Collection Pipeline Rehabilitation (\$2,193)

EL DORADO IRRIGATION DISTRICT

SUBJECT: Consider authorizing funding in the amounts of \$2,109,000 for capitalized labor, \$869,358 for asphalt patch paving, \$537,346 for materials and supplies, \$343,672 for sand and gravel, \$104,038 for compaction testing and El Dorado County inspections and \$286,586 for concrete remediation services for a total funding request of \$4,250,000 for the Service Line Replacement, Project No. 23002.01.

PREVIOUS BOARD ACTION

February 12, 2022 – Board approved a contract to Joe Vicini, Inc. in the not-to-exceed amount of \$1,386,750 for asphalt patch paving and associated pavement restoration work for a one-year period and authorize the General Manager to extend the contract for two additional, single-year periods if in the District’s best interests, and authorize additional funding of \$970,725 for asphalt patch paving, \$320,000 for concrete remediation, \$60,000 for backfill compaction testing, \$983,744 for materials and supplies, and \$2,411,077 for capitalized labor for a total funding request of \$4,745,546 for the Water Service Line Replacement, Project No. 22002.

November 14, 2022 – Board adopted the 2023–2027 Capital Improvement Plan (CIP), subject to available funding.

BOARD POLICIES (BP), ADMINISTRATIVE REGULATIONS (AR) AND BOARD AUTHORITY

BP 0010 District Mission Statement
BP 3060 Contracts and Procurement
AR 3061.04 Procurement and Contract Authority
BP 5010 Water Supply Management

SUMMARY OF ISSUE

This agenda item is intended to provide the Board an update regarding 2022 water service line replacement activities and request approval of additional capital funding to complete those activities planned during 2023.

BACKGROUND/DISCUSSION

The Board continues to include a sustained investment in water line replacements within the Capital Improvement Plan (CIP), including \$4,250,000 planned for service line replacements (SLR) during 2023. To accomplish this work staff are requesting the anticipated CIP funding necessary for each of the respective project components, including property restoration after replacement.

In 2022, staff completed 577 SLRs with 522 completed in response to leaks and failures and 55 completed as proactive replacements in targeted areas of historical failure. The recent pace of planned replacements has been complicated by two ongoing factors – existing service line leaks and staffing changes. The number of existing service line leaks required a significant diversion of resources from other maintenance activities over the course of the year. As evidenced by the table below, unfortunately the number of leaks reported has continued to increase.

	Planned	Unplanned	Total
Target	335	165	500
2020	155	350	505
2021	170	458	628
2022	55	522	577

Additionally, the Drinking Water Construction Unit has continued to experience significant staffing challenges due to staff promotions/transfers to other positions, retirements, and resignations. For perspective, 14 of the 27 staff within this work unit (including the 3 new members of the right-of-way crew) arrived to the District within the last year.

After significant challenges during 2022, the work unit has regrouped and is getting back on pace with a target of at least 125 planned Service Line Replacements (SLR) this year. To meet this goal, senior staff are actively training newly recruited crew members, including a new crew leader, to facilitate efficient replacement of service lines. This training is multi-faceted and requires skill in plumbing, drinking water sanitary practices, heavy equipment operations, detailed planning, customer notification and scheduling of staff. Staff is confident that we will overcome the challenges experienced during 2022 and resume the pace of prior years in achieving the ultimate goal of implementing two-thirds planned SLR and one-third unplanned SLR associated with leak response.

FUNDING

A total funding of \$4,250,000 is requested for CIP Service Line Replacement, Project No. 23002.01. On February 12, 2022 the Board approved a contract with Joe Vicini Inc. for asphalt patch paving and authorized the General Manager to extend the contract for two additional, single-year periods. The General Manager has approved a contract extension for Joe Vicini Inc. as they have continued to be responsive to the District's patch paving needs. A concrete remediation contract with B&M Builders was approved by the Board on October 13, 2020. That contract also included authorization for the General Manager to extend the contractor for two additional single year periods, and the General Manager has exercised that authority after confirming satisfactory contractual performance. This contract has been extended until November 2023 and will be rebid this summer to facilitate concrete restoration going forward. The Board also approved a bid from Hastie's Capitol Sand and Gravel on January 10, 2022 to provide necessary sand and gravel for the District drinking water construction projects, including SLR. Similar to the contracts listed above, the General Manager extended the contract for one additional year following the Board's delegated authorization. Portions of each of these extended contracts will be allocated to the SLR project through dedicated work orders. Therefore, no additional contract approvals are requested at this time.

Costs associated with this project are broken down below. The proposed funding source is 100% water rates.

Project No.	23002.01	Board Date	2/13/23
Project Name	Service Line Replacement Project		
Project Manager	Noel Russell		

Funding Request Breakdown	\$
Capitalized labor	\$2,109,000
Asphalt patch paving	\$869,358
Materials and supplies (piping, fittings)	\$537,346
Sand and gravel	\$343,672
Compaction testing and encroachment compliance	\$104,038
Concrete remediation services	\$286,586
Total	\$4,250,000

Funding Source
100% Water Rates

Description
<p>This program consists of targeted replacement of leaking water service lines throughout the District. Replacing leaking and substandard service lines with new copper water service tubing will reduce the potential for contamination of the drinking water supply, increase reliability, reduce maintenance expenditures, and decrease losses. Service line projects are prioritized with operations and engineering staff based on frequency of leaks and costs of repairs. The replacement work is being performed by District crews. This project will also include service line replacements as part of leak repair request work orders.</p> <p>This request will provide annual funding for capitalized labor, materials, supplies, patch paving, and concrete remediation services for water service line replacement through 2023. The County requires compaction testing of backfill for work occurring within the public right of way and conducts District-paid periodic inspections of work conducted within the County right-of-way. Therefore, staff requests additional funding to continue these efforts as part of this funding request.</p>

BOARD OPTIONS
<p>Option 1: Authorize funding in the amounts of \$2,109,000 for capitalized labor, \$869,358 for asphalt patch paving, \$537,346 for materials and supplies, \$343,672 for sand and gravel, \$104,038 for compaction testing and El Dorado County inspections, and \$286,586 for concrete remediation services for a total funding request of \$4,250,000 for the Service Line Replacement, Project No. 23002.01.</p> <p>Option 2: Take other action as directed by the Board.</p> <p>Option 3: Take no action.</p>

RECOMMENDATION

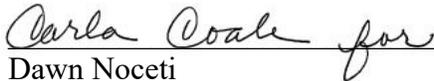
Option 1

ATTACHMENTS

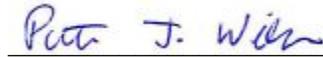
Attachment A: CIP Summary



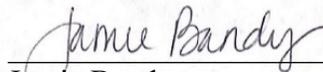
Noel Russell
Water Construction Supervisor



Dawn Noceti
Accountant



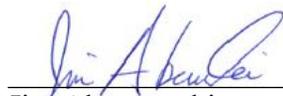
Patrick Wilson
Drinking Water Operations Manager



Jamie Bandy
Finance Director



Dan Corcoran
Operations Director



Jim Abercrombie
General Manager

2023

CAPITAL IMPROVEMENT PLAN Program:

Water

Project Number: 22002
Project Name: Serviceline Replacement Program
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Russell **Board Approval:** 11/14/22

Project Description:

This program consists of targeted replacement of leaking water service lines throughout the District. Replacing leaking and substandard service lines with new copper water service tubing will reduce the potential for contamination of the drinking water supply, increase reliability, reduce maintenance expenditures, and decrease losses. Serviceline projects are prioritized with operations and engineering staff based on frequency of leaks and costs of repairs. These estimates and project locations are subject to change as the projects are better defined. The replacement work is being performed by District crews.

Basis for Priority:

Continuous line breaks affect water quality and supply reliability to customers and increase maintenance costs. This project is required to protect and preserve the health and safety of customers and the public.

Project Financial Summary:

Funded to Date:	\$ 4,745,546	Expenditures through end of year:	\$ 3,397,752
Spent to Date:	\$ 2,647,752	2023 - 2027 Planned Expenditures:	\$ 23,150,000
Cash flow through end of year:	\$ 750,000	Total Project Estimate:	\$ 26,547,752
Project Balance	\$ 1,347,794	Additional Funding Required	\$ 21,802,206

Description of Work	Estimated Annual Expenditures					Total
	2023	2024	2025	2026	2027	
Design	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000
Construction (Various)	\$ 4,200,000	\$ 4,450,000	\$ 4,650,000	\$ 4,750,000	\$ 4,850,000	\$ 22,900,000
TOTAL	\$ 4,250,000	\$ 4,500,000	\$ 4,700,000	\$ 4,800,000	\$ 4,900,000	\$ 23,150,000

Estimated Funding Sources	Percentage	2023	Amount
Water Rates	100%		\$2,902,206
Total	100%		\$2,902,206

Funding Comments:

Drinking Water Construction Service Line Replacement Project

Funding Request

February 13, 2023



Previous Board Action

- **February 12, 2022 – Board approved a contract to Joe Vicini, Inc. in the not-to-exceed amount of \$1,386,750 for asphalt patch paving, and authorize additional funding of \$970,725 for asphalt patch paving, \$320,000 for concrete remediation, \$60,000 for backfill compaction testing, \$983,744 for materials and supplies, and \$2,411,077 for capitalized labor for a total funding request of \$4,745,546 for the Water Service Line Replacement, Project No. 22002**
- **November 14, 2022 – Board adopted the 2023–2027 Capital Improvement Plan (CIP), subject to available funding**

Water Service Line Overview

- **44,310 water service lines**
- **Crews replaced 577 lines in 2022**
 - Leak rate far exceeds national average
 - Number of service line failures is increasing
- **26,732 polyethylene services in the system**
 - Failing within 15-30 years on average

Objectives

- **Reduce failure rate at or below national average**
 - Proactive replacement
- **Replace polyethylene with copper**

Status Update

	Planned	Unplanned	Total
Target*	335	165	500
2020	155	350	505
2021	170	458	628
2022	55	522	577

*2022 Key performance indicators

- Program established in 2020
- 5 Year CIP Budget - \$23,150,000
 - 2023 Budget - \$4,250,000

Challenges

- **Current leak response requirements**
- **Staffing changes**
 - 14 of 27 arrived within last year
 - Detailed training

Community Outreach

- **Current Project: Stonegate Village, EDH**
 - Letters sent directly to home owners
 - Scope of project
 - Impact to customers
 - Project details
 - Project manager contact information
 - Posted to EID website
 - Advisory signage entering community
 - Door to door notifications for service interruptions

Utility Conflict



Service Line Replacement



Funding Request

Funding Request Breakdown

	<u>Cost</u>
• Capitalized labor	\$2,109,000
• Asphalt patch paving	\$869,358
• Materials and supplies	\$537,346
• Sand and gravel	\$343,672
• Compaction testing & county inspection	\$104,038
• Concrete remediation services	\$286,586
Total Funding Request	\$4,250,000

Board Options

- **Option 1:** Authorize funding in the amount of \$2,109,000 for capitalized labor, \$869,358 for asphalt patch paving, \$537,346 for materials and supplies, \$343,672 for sand and gravel, \$104,038 for compaction testing and El Dorado County inspections, and \$286,586 for concrete remediation services for a total funding request of \$4,250,000 for the Service Line Replacement, Project No. 23002.01.
- **Option 2:** Take other action as directed by the Board
- **Option 3:** Take no action

Recommendation

- **Option 1**

Questions

EL DORADO IRRIGATION DISTRICT

SUBJECT: Consider approving a contract amendment to Water Works Engineers, Inc. in the not-to-exceed amount of \$370,094 for design of the Sly Park Intertie Improvements and authorize additional funding of \$370,094 for the Sly Park Intertie Improvements Project, Project No. 21079.

PREVIOUS BOARD ACTION

December 13, 2021 – Board adopted Resolution No. 2021-017 authorizing the California Department of Water Resources Urban and Multi-benefit Drought Relief Program Grant Application, Acceptance and Execution for Sly Park Intertie Improvements, Capital Improvement Plan Project No. 21079.

February 14, 2022 – Board awarded a contract to Water Works Engineers, Inc. in the not-to-exceed amount of \$1,083,776 for design of the Sly Park Intertie Improvements, and authorized additional funding in the amounts of \$200,000 for on-call environmental consulting services, \$200,000 for capitalized labor, and \$145,000 in project contingency for a total funding request of \$1,628,776 for the Sly Park Intertie Improvements Project, Project No. 21079.

November 14, 2022 – Board adopted the 2023-2027 Capital Improvement Plan (CIP), subject to available funding.

January 23, 2023 – Board approved a contract amendment to Water Works Engineers, Inc. in the not-to-exceed amount of \$259,943 for easement acquisition services for the Sly Park Intertie Improvements and authorized additional funding of \$259,943 for the Sly Park Intertie Improvements Project, Project No. 21079.

BOARD POLICIES (BP), ADMINISTRATIVE REGULATIONS (AR) AND BOARD AUTHORITY

BP 3010 Budget
BP 3060 Contracts and Procurement
BP 5000 Water Supply Management
BP 5030 Water Conservation

SUMMARY OF ISSUE

The Sly Park Intertie (SPI) pipeline located in Pollock Pines is a critical element for water supply transmission and reliability for the District. The pipeline was originally constructed in 1978. The pipeline remained in service through 2013 when large portions of the pipeline were taken offline after it became unusable due to advanced corrosion and leaks. Currently, two low pressure portions of the pipeline remain in service, but each have experienced significant leaks historically. The portions that remain in service extend from Ridgeway Drive north to Reservoir 1 Water Treatment Plant (Res 1), and from the Reservoir A Water Treatment Plant (Res A) east to the Sly Park Hills Water Storage Tank.

Increased threat of wildfire, including recent disruptions to District source water supplies caused by the Caldor Fire, and the severe drought conditions experienced over the past decade have made replacement of this crucial transmission intertie a high priority for the District.

Following preparation of the project basis of design report (BODR) and staff review, staff requests a contract amendment for additional design services.

BACKGROUND/DISCUSSION

The SPI pipeline was originally constructed in 1978 to alleviate water shortages during drought conditions experienced in 1976 and 1977. The SPI extends approximately four miles in total from Res 1 to Res A, with turnouts to the Moose Hall Transmission pipeline, and the Sly Park Hills Tank. The pipeline provides an intertie between the District's two largest supply sources—Project 184 and Jenkinson Lake—and their associated water treatment facilities. Together, they provide two thirds of the District's water supply to customers in the communities of Pollock Pines, Camino, Placerville, Pleasant Valley, Diamond Springs, El Dorado, Lotus, Shingle Springs, Cameron Park, and at certain times of year El Dorado Hills.

While completing the BODR for the SPI design, Water Works Engineers, Inc. (Water Works) in conjunction with District staff has identified and proposed the following scope amendments:

Design of pipeline segment from Sportsman's Pump Station to Ridgeway Drive

The initial scope of the SPI replacement extended from Ridgeway Drive to the Res A and included replacing the portion of the SPI that was taken out of service. The segment that remains in service from Ridgeway Drive north to Res 1 consists of 2,000 linear feet of 30-inch steel pipe from the outlet of the Res 1, extending south crossing under and through the Highway 50 corridor to Ridgeway Drive. This segment conveys flows from Res 1 downstream to the Moose Hall transmission main. This section was excluded from the original scope due to difficult construction and right-of-way acquisition costs associated with replacing the existing pipeline and casing that crosses Highway 50 and Caltrans right-of-way. During completion of the BODR, Water Works identified an alternative direct burial alignment utilizing the Ridgeway Drive underpass crossing Highway 50 and portions of Pony Express Trail to Sportsman's Pump Station. The addition of this alignment will eliminate most of the substandard portion of the original SPI alignment, reduce future expenditures associated with repairs and remobilization, eliminate risk associated with the existing Highway 50 casing and crossing, and allow maintenance crews to directly excavate to access and repair all portions of the SPI pipeline in the future. Approximately 900 feet of the remaining original steel SPI from Sportsman's Pump Station to Res 1 would be replaced as part of future Res 1 storage improvements. Water Works' proposal for this scope of work is \$151,827 for design and \$30,236 for Caltrans encroachment permit assistance for a total request of \$182,063 for this work. Additional construction costs associated with adding 2,000 feet of additional transmission main for this replacement segment are estimated to be \$2.0 million.

Design of Sly Park Hills Waterline

The portion of the original SPI that extends from Res A east to the Sly Park Hills Water Storage Tank is still in service and was repurposed many years ago as a distribution pipeline to supply the storage tank. This portion of the pipeline also has advanced corrosion and has had multiple significant leaks in past years. A separate capital improvement project (Sly Park Hills Waterline Replacement) is included in the 2023-2027 CIP to replace this section. This project was initially planned to be designed and bid for construction as a stand-alone project. During the development of the BODR, the District requested that Water Works develop a proposal to include this work with the SPI design. Incorporating this additional work into the Water Works contract will provide consistency between the two projects, and provide design and construction efficiencies that should reduce the cost of construction of this planned project. Water Works' proposal for this scope of work is \$100,203. Additional construction costs associated with adding the replacement of this segment are estimated to be \$1.1 million and included in the 2023-2027 CIP.

SPI Pump Station Backup Power and Electrical Service Coordination

Following completion of the SPI BODR, staff determined that the existing generator at Res A is not sized sufficiently to provide power to the new SPI pump station. Additionally, the three new 600-hp pumps that will be required to convey treated water from Res A to Res 1 in the event of an outage will require a service modification and coordination with PG&E. The design and integration of a new generator and coordination with PG&E is not included in the Water Works contract. Water Works’ proposal for this scope of work is \$76,028. Staff has reviewed and agrees with the level of effort and fee associated with this proposal.

Design of Multiple Pressure Reducing Stations at Res-A

The initial scope of work for the SPI design contract included a single point of discharge at Res A. While confirming operations and the proposed pump station location at Res A during the BODR process, three points of connection were ultimately deemed necessary. These included tie-ins at the Res A clearwell, upstream of the finished water reservoir, and at what is called the “Ice House Vault” from which the Pleasant Oak Main and Camino Conduit originate. Incorporating additional points of connection and associated pressure reducing appurtenances at these three locations enables staff to fully operate and isolate the Sly Park Hills waterline and tank, the Res A treatment processes, and the finished water storage reservoir under all operating conditions. Water Works’ proposal for this scope of work is \$11,800. Staff has reviewed and agrees with the level of effort and fee associated with this proposal.

Design of Dechlorination System

The District is obligated to discharge one to five cubic feet per second of untreated water to Clear Creek from Jenkinson Lake. These flows are currently diverted from upstream of the Res A head works prior to any pre-treatment. The District asked for a proposal to design a dechlorination system to allow for treated water from Res 1 to be dechlorinated and discharged near the new Res A pump station during periods when Res A and the Jenkinson Lake diversion facility is taken offline. Water Works’ proposal for this scope of work was \$60,064. Staff has since developed a more cost effective plan for diverting flows near the main slide gate at Jenkinson Lake and is not pursuing this additional scope at this time.

FUNDING

The CIP estimates \$1,770,000 of expenditures for the design phase of the project with construction costs funded by a future 2024 bond issuance and a previously secured \$10 million grant from DWR. The District also secured a \$750,000 grant via El Dorado County from American Rescue Plan Act funding for the design phase of the project. Staff requests additional funding of \$370,094 for a contract amendment with Water Works for the following design services:

Design of pipeline segment from Sportsman’s pump station to Ridgeway Drive*	\$182,063
Design of Sly Park Hills waterline	\$100,203
SPI pump station backup power and electrical service coordination	\$76,028
Design of multiple pressure reducing stations	\$11,800
Total Funding Request	\$370,094

*Includes proposal for pipeline design (\$151,827) and Caltrans encroachment assistance (\$30,236).

BOARD OPTIONS

Option 1: Approve a contract amendment to Water Work Engineers, Inc. in the not-to-exceed amount of \$370,094 for design of the Sly Park Intertie Improvements and authorize additional funding of \$370,094 for the Sly Park Intertie Improvements Project, Project No. 21079.

Option 2: Take other action as directed by the Board.

Option 3: Take no action.

RECOMMENDATION

Option 1

ATTACHMENTS

Attachment A: CIP Summary

Attachment B: Water Works Cost Proposal



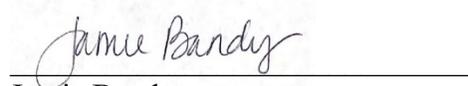
Jon Money
Senior Civil Engineer



Elizabeth Dawson
Engineering Manager



Brian Mueller
Engineering Director



Jamie Bandy
Finance Director



Brian Poulsen
General Counsel



Jim Abercrombie
General Manager

2023

CAPITAL IMPROVEMENT PLAN Program:

Water

Project Number: 21079
Project Name: Sly Park Intertie Improvements
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Money **Board Approval:** 11/14/22

Project Description:

The Sly Park Intertie is a key component of supply reliability in times of drought and during emergencies. In service it provides water delivery flexibility between Reservoir A WTP and Reservoir 1 WTP. The Intertie includes approximately 3.5 miles of 22" and 30" steel waterline built under emergency conditions just after the 1976-77 drought. The unlined pipeline has corroded significantly due to lack of cathodic protection and due to the volume of leaks it was taken out of service. The Sly Park Intertie improvements were identified as a supply reliability project in the 2013 Integrated Water Resources Master Plan. Previous engineering reports from the mid 1990's and in 2006 explored the possibility of rehabilitating the pipeline with a non-structural liner. However, a 2020 study found that the wall loss was too significant to be cost effective to install a liner and thus explored a complete removal and replacement. The 2020 study includes analysis of changed operations that could reduce pumping head up to 180 feet by pumping water from Reservoir A to Reservoir 1 during annual Forebay outages with a new pump station placed at the outlet of Reservoir A, rehabilitation options, direct replacement alternatives analysis, and a financial analysis. The ability to move water between Reservoir 1 and Reservoir A will also allow for a long overdue inspection of the 60 year old Camino Conduit between Jenkinson Reservoir and Reservoir A WTP, additionally it will provide time for the rehabilitation of valves within the dam that are in need of service or replacement, and provide a longer window for scheduled Reservoir A WTP maintenance. The estimated pipeline construction project cost at this time is \$28 million for an open cut replacement based on the 2020 Draft Evaluation of Rehabilitation Alternatives Technical Memorandum. Cost estimates are based on a 10% design level of confidence and include a 30% construction contingency. Typical contingencies for 10% design level cost estimates range between 30% and 100%. The contingency used for this cost estimate is at the low end of the range and higher actual costs are likely. Staff will continue to pursue any grant funding that may become available.

Basis for Priority:

Replacement of the pipeline and installation of a new pump station will ensuring water supply flexibility/reliability between the two major gravity supply sources that provide two thirds of the District's water supply.

Project Financial Summary:

Funded to Date:	\$ 1,769,176	Expenditures through end of year:	\$ 316,314
Spent to Date:	\$ 196,314	2023 - 2027 Planned Expenditures:	\$ 21,350,000
Cash flow through end of year:	\$ 120,000	Total Project Estimate:	\$ 21,666,314
Project Balance	\$ 1,452,862	Additional Funding Required	\$ 19,897,138

Description of Work	Estimated Annual Expenditures					Total
	2023	2024	2025	2026	2027	
Design	\$900,000	\$ 300,000	\$ 300,000			\$ 1,500,000
Environmental	\$ 200,000	\$ 100,000	\$ 100,000			\$ 400,000
Right of Way	\$ 100,000	\$ 100,000				\$ 200,000
Construction		\$ 15,000,000	\$ 15,000,000			\$ 30,000,000
Grant Offset	\$ (750,000)	\$ (5,000,000)	\$ (5,000,000)			\$ (10,750,000)
TOTAL	\$ 450,000	\$ 10,500,000	\$ 10,400,000	\$ -	\$ -	\$ 21,350,000

Estimated Funding Sources	Percentage	2023	Amount
Bond	100%	\$	-
Total	100%	\$	-

Funding Comments:

AMENDMENT 2 SCOPE AND FEE PROPOSAL

January 23, 2023

El Dorado Irrigation District (EID)
 Jon Money, Senior Civil Engineer

Subject: Water Works Engineers, LLC Scope & Fee Proposal for Amendment 2 to the Professional Services Agreement with Eldorado Irrigation District (EID) for the Sly Park Intertie Improvements Project (EID Project No. 21079.01)

Dear Mr. Money:

Water Works Engineers, LLC (Water Works, or WWE) submitted a DRAFT of the Sly Park Intertie Basis Of Design Report in accordance with our current professional services agreement scope of work. Water Works facilitated a workshop review of that document with El Dorado Irrigation District (EID, or District) staff and received comments related to its content. Over the course of that review and several workshops related to specific portions of the design, the District and Water Works identified additional services beyond those contemplated in the current professional services scope and fee that will be required to execute the project. Water Works is pleased to submit to EID this Amendment 2 Scope and Fee Proposal for the additional services as described herein. These services shall be provided for the not to exceed fee presented herein, on a time plus expense basis in accordance with our project Rate Sheet. For detailed labor estimate by staff position see attached fee estimate spreadsheet. The following summarizes estimated costs by task:

BASE SERVICES		
Subtask	Title	Not to Exceed Fee
A2-1	DESIGN BODR SEGMENT 1 - Pony Exp Tr, HWY-50 X'ing & Ridgeway Dr	\$151,827
A2-2	DESIGN BODR SEGMENT 2 - RES-A to SPH Turnout	\$100,203
A2-3	DESIGN EMERGENCY POWER / ELECTRICAL SERVICE	\$76,028
A2-4	DESIGN MUTIPLE PRESSURE REDUCING STATIONS	\$11,800
A2-5	ENCROACHMENT PERMITTING ASSISTANCE	\$30,236
A2-6	DESIGN DECHOLINATION SYSTEM – SPI Clear Creek Diversion	\$60,064
	Subtotal (Amendment 2 Services)	\$430,158

The following summarizes the scope of work assumed for each additional service.

Subtask A2-1: DESIGN BODR SEGMENT 1 - Pony Exp Tr, HWY-50 X'ing & Ridgeway Dr

- ENGINEER shall provide engineering services necessary to incorporate an extension of the limits of construction for the SPI Pipeline to include replacement in a new alignment from Pony Exp Tr, HWY-50 X'ing & Ridgeway Dr to a connection point the street outside the Sportsman PS. Additional services shall include adding this line to the BODR and completing final design for its construction in accordance with the Final Design services described in the existing scope of work. Deliverables for this additional segment shall be incorporated into the deliverables already defined in the existing scope of work.

Subtask A2-2: DESIGN BODR SEGMENT 4 - RES-A SPI to SPH Turnout

- ENGINEER shall provide engineering services necessary to incorporate replacement of the existing 22" SPI pipeline from RES-A existing Sly Park Hills (SPH) pump station at the control building) to SPH Tank Turnout.

Additional services shall include adding this line to the BODR and completing final design for its construction in accordance with the Final Design services described in the existing scope of work. Deliverables for this additional segment shall be incorporated into the deliverables already defined in the existing scope of work.

Subtask A2-3: DESIGN EMERGENCY POWER / ELECTRICAL SERVICE

- ENGINEER shall provide engineering services necessary to evaluate, size and incorporate emergency power and upgraded electrical service, including coordinating with PG&E, into the SPI Pump Station. Additional services shall include adding these improvements to the BODR and completing final design for its construction in accordance with the Final Design services described in the existing scope of work. Deliverables for this additional segment shall be incorporated into the deliverables already defined in the existing scope of work.

Subtask A2-4: DESIGN MULTIPLE PRESSURE REDUCING STATIONS

- ENGINEER shall provide engineering services necessary to evaluate, size and incorporate the ability to discharge SPI water from RES-1 into RES-A clearwell, upstream of RES-A and/or downstream of RES-A, allowing considerable operational flexibility for partial or complete shutdown of RES-A WTP while maintaining storage and water quality control flexibility. The level of effort assumes design of valving in building near existing Sly Park Hills PS at clearwell, remote pressure reducing station valving along Res A western access road upstream of Res-A inlet, and valving inside of Sly Park Intertie PS near “Ice House”, thus optimizing flexibility.
- Additional services under this task shall include adding these improvements to the BODR and completing final design for their construction in accordance with the Final Design services described in the existing scope of work. Deliverables for this additional segment shall be incorporated into the deliverables already defined in the existing scope of work.

Subtask A2-5: ENCROACHMENT PERMITTING ASSISTANCE

- ENGINEER shall provide engineering services necessary support to District in submitting plans and supporting documentation for District’s use in obtaining the following encroachment permits:

Caltrans (required for on Hwy 50, Segment 1)

Standard Encroachment Permit (Form TR-0100), requiring:

- Plans
 - Typical plan set content (e.g., plan and profiles, sections, notes, etc.)
 - Traffic control plan, with detour schematics as required by Caltrans
 - Boundary Survey Drawing– limited to Caltrans ROW (survey by District)
 - Assumptions:
 - The following items are **not** included in the plan set to be submitted, as they are deemed not applicable during the proposal development:
 - Electrical Plans – No electrical improvements in the Project
 - Drainage Plan; Hydrology Map and Calculations; Storm Drain Plans, Profiles, and Details; – Project does not include mods to site drainage
 - Planting and Irrigation Plans
 - Signal and Lighting Plans
 - Signal Warrant Studies
 - Street Improvement Plan

- Structural Plans and Calculations
- Provided by Contractor as deferred submittal as they are means and methods of Contractor
 - Shoring Plans
 - Steel Plating
 - Traffic Control Plan (updates per selected means and methods)
 - Traffic Management Plan (Detour details, if required by Caltrans)
- Supporting Documents
 - The following items are **not** included in the supporting documents to be submitted, as they are deemed not applicable during the proposal development:
 - Drainage Report; Erosion and Sediment Control Plan / BMP – Project does not include modifications to site drainage
 - Traffic Study Report
 - Provided by Contractor, as deferred submittal for permit issuance
 - Storm Water Pollution Prevention Plan (SWPPP)
 - Water Pollution Control Plan (WPCP)
- Bonds/Insurance – To be provided by District
- Permit Fees – To be provided by District
- Any Environmental Documentation Required by Caltrans – To be provided by District

El Dorado County Public Works (required Segment 1, and limited portions of Segment 2 & 4)

Utility Right Of Way Encroachment Permit Application, requiring:

- Plans – utilize similar subset of documents required by Caltrans (as listed above) for those portions of work on public ROW that require permitting through County.
 - Provided by Contractor as deferred submittal as they are means and methods of Contractor
 - Shoring Plans
 - Steel Plating
 - Traffic Control Plan(s)
 - Traffic Management Plan (Detour)
 - Supporting Documents
 - The following items are **not** included in the supporting documents to be submitted, as they are deemed not applicable during the proposal development:
 - Drainage Report; Erosion and Sediment Control Plan / BMP – Project does not include modifications to site drainage
 - Traffic Study Report
 - Provided by Contractor, as deferred submittal for permit issuance
 - Storm Water Pollution Prevention Plan (SWPPP)
 - Water Pollution Control Plan (WPCP)
 - Bonds/Insurance – To be provided by CLIENT
 - Permit Fees – To be provided by CLIENT
 - Any Environmental Documentation Required by County – To be provided by District
- Deliverables for these permits are as follows
 - Caltrans Permit Package (PDF sent electronically to County PM, resubmittals are additional)
 - County Permit Package (PDF sent electronically to County PM, resubmittals are additional)

Subtask A2-6: DESIGN DECHLORINATION SYSTEM

- ENGINEER shall provide engineering services to identify alternatives, evaluate, size and incorporate a dechlorination chemical storage and feed system intended for intermittent operation to substitute Jenkinson Lake raw water with potable water from the SPI main into the existing Clear Creek diversion
 - Assumptions:
 - Operated several weeks a year
 - Fully automated, walk away system designed for 1-5 CFS
 - Dechlorination of SPI water is only water quality adjustment needed
 - Alternatives presented in workshop for discussion and selection of preferred by District
 - Design level of effort is based on assumption that the preferred alternative will include:
 - Vented chemical storage (tank or totes) in climate-controlled room that is attached to or part of the new SPI pump station
 - Fully alarmed, automated system (level alarms in chemical storage, D/S U/S CL analyzers that alarm and stop system)
 - Metering pumps, piping, valves and appurtenances
 - Diversion pipe, flow control valve, motor actuated isolation valves, pressure reducing valve, flow meter, and other valves and appurtenances
 - Addition of electrical equipment in enlarged SPI pump station electrical room
 - Outdoor pre-cast or cast in place subgrade junction structure or lined channel or above ground rental baffling tank, for mixing, compliance testing, etc.
 - The following are **not** included in this Scope:
 - All water quality assessments as related to downstream waterways (pH impacts, etc.)
 - Any and all permitting related to use of de-chlorinated SPI water for District mandated Clear Creek diversion flows
- Additional services under this task shall include adding these improvements to the BODR and completing final design for their construction in accordance with the Final Design services described in the existing scope of work. Deliverables for this additional segment shall be incorporated into the deliverables already defined in the existing scope of work.

If you have any questions regarding this Cost Proposal, please contact Mike Fisher at (916) 277-9027 (mikef@wwengineers.com).

Very Truly Yours,
Water Works Engineers, LLC



Michael J Fisher, P.E.
Project Manager / Principal In Charge

ATTACHMENTS

1 - AMENDMENT 2 COST PROPOSAL - DETAILED LABOR AND FEE ESIMATE BY STAFF POSITION

ATTACHMENT 1

AMENDMENT 2 COST PROPOSAL

DETAILED LABOR AND FEE ESTIMATE BY STAFF POSITION



AMENDMENT 2 COST PROPOSAL - DETAILED LABOR AND FEE ESIMATE BY STAFF POSITION

Task		WWE 2022 Rate Schedule															Project Budget Totals		
	Team Member Classification	E5	E5	E4	E4	E3	E3	E3	E1	T3	T2	T1	AA1	Sub	Sub	Expenses			
	Team Member Name	Mike Fisher Project Manager	Todd Kotey Pipeline SME	Durbin / Ziemann / Riess QAQC	Steve Hooper Constructability / CM	Tim Lewis Lead Project Engineer	Alacon / Baltazar Project Engineer	Himai Mehere Proj. Engineer - Structural	Staff Engineer	Webster / Worrall Senior Designer	Designer / CADD	CADD Technician	Administrative	ControlPoint Engineering Electrical, I&C	Bender Rosenthal Inc Easement Procurement, ROW	WWE Direct Costs Reproduction, postage, mileage, etc.	Sub-Task	Task	WWE Hours
No.	Description	\$256	\$256	\$221	\$221	\$191	\$191	\$197	\$139	\$153	\$126	\$94	\$77	LS	LS	LS			
A2-1	DESIGN BODR SEGMENT 1 - Pony Express Trail, HWY-50 X'ing & Ridgeway Dr																	\$151,827	972
1.1	DESIGN - Open Trench Construction	40	40	24	8	180	40	40	120	120	160	200				\$375	\$151,827	972	
A2-2	DESIGN BODR SEGMENT 2 - RES-A to SPH Turnout																	\$100,203	644
2.1	DESIGN - Slipline or Open Trench Construction	40	24	12	4	120		24	120	60	120	120				\$375	\$100,203	644	
A2-3	DESIGN EMERGENCY POWER / ELECTRICAL SERVICE																	\$76,028	364
3.1	DESIGN - Emergency Generator & Power	8	24	8		40		24	60	80	120			\$18,000			\$76,028	364	
A2-4	DESIGN MUTIPLE PRESSURE REDUCING STATIONS																	\$11,800	60
4.1	DESIGN - Dechlorination for Clear Creek Diversion	4	2	6		16		8		16	8			\$850			\$11,800	60	
A2-5	ENCROACHMENT PERMITTING ASSISTANCE																	\$30,236	198
5.1	Caltrans Permit	4	8			24			40	16		40				\$750	\$20,174	132	
5.2	El Dorado County	2	4			12			20	8		20				\$350	\$10,062	66	
A2-6	DESIGN DECHOLINATION SYSTEM																	\$60,064	324
4.1	DESIGN - Dechlorination for Clear Creek Diversion	12	6	34		64		32		144	32			\$3,000		\$350	\$60,064	324	
BUDGET TOTALS (WWE Hours)		110	108	84	12	456	40	128	360	444	440	380	0						2,562
BUDGET TOTALS (Fee)		\$28,160	\$27,648	\$18,564	\$2,652	\$87,096	\$7,640	\$25,216	\$50,040	\$67,932	\$55,440	\$35,720	\$0	\$21,850	\$0	\$2,200	\$430,158		



Sly Park Intertie Improvements Project

Contract Amendment
for Additional Engineering Services

Project No. 21079.01

February 13, 2023

Previous Board Actions

- December 13, 2021 – Board adopted a resolution authorizing the California Department of Water Resources Urban and Multi-benefit Drought Relief Program Grant Application, Acceptance and Execution for Sly Park Intertie.
- February 14, 2022 – Board awarded a contract to Water Work Engineers, Inc. in the not-to-exceed amount of \$1,083,776 for design of the Sly Park Intertie Improvements, and authorized additional funding in the amounts of \$200,000 for on-call environmental consulting services, \$200,000 for capitalized labor, and \$145,000 in project contingency for a total funding request of \$1,628,776 for the Sly Park Intertie Improvements Project, Project No. 21079.
- November 14, 2022 – Board adopted the 2023-2027 Capital Improvement Plan (CIP), subject to available funding.
- January 23, 2023 – Board awarded a contract amendment to Water Work Engineers, Inc. in the not-to-exceed amount of \$370,094 for design of the Sly Park Intertie Improvements for a total funding request of \$370,094 for the Sly Park Intertie Improvements Project, Project No. 21079

Summary of Issue

- Design of Sly Park Intertie replacement is underway
- Additional design scope for consideration following completion of draft basis of design report
- Two additional pipe sections (Ridgeway to Sportsman's, and Res A to Sly Park Hills Tank)
- PG&E power coordination and backup generator design
- Res A interconnections and pressure reducing stations

Background

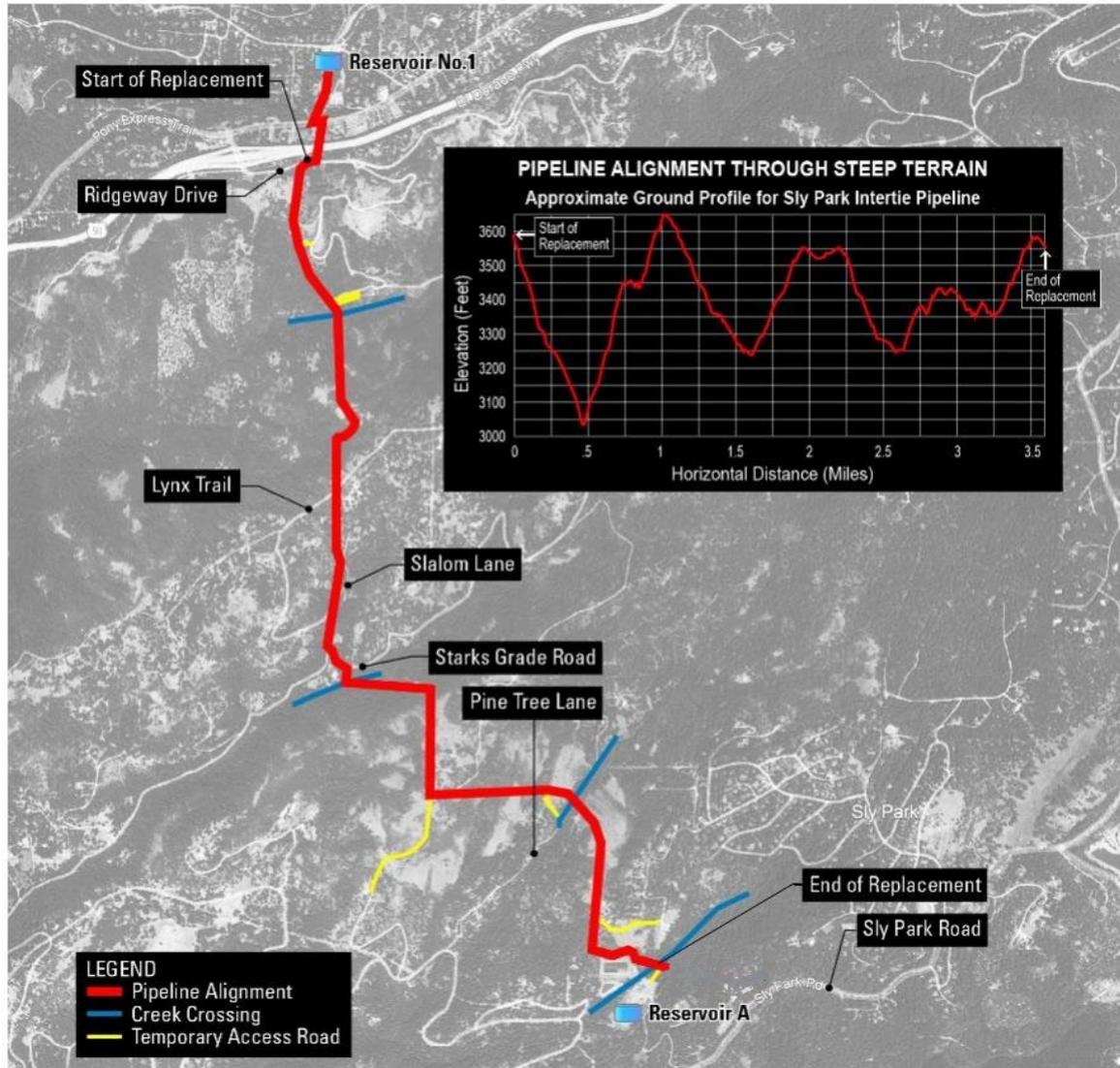
- Sly Park Intertie (SPI) pipeline was constructed in 1978 to alleviate water shortages during 1976 and 1977 drought
- Approximately four miles of steel pipe
 - Critical link for water conveyance between the Res-A and Res-1 distribution systems
- Non-standard pipe with no interior lining
- Substantial leaks and pipe failures required removal of the majority of SPI from service in 2013

Water Transmission System

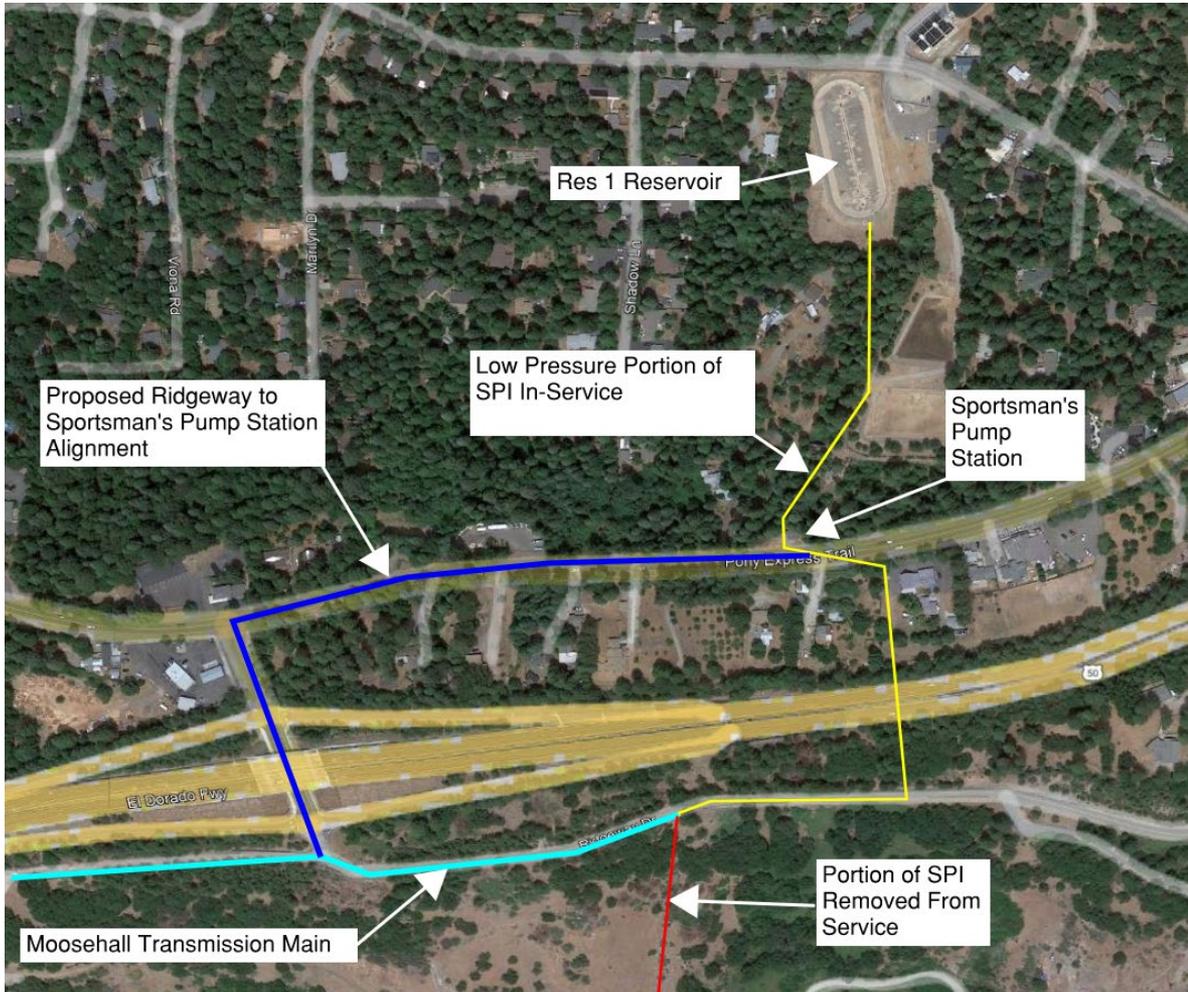


- SPI allows for bi-directional flow between Res A and Res 1
- Provides system redundancy for drought, wildfire, water quality
- Allows Res A to be taken offline for maintenance and repairs
- Provides long-term energy and capital savings

Project Location



Segment 1 – Ridgeway to Sportsman's PS

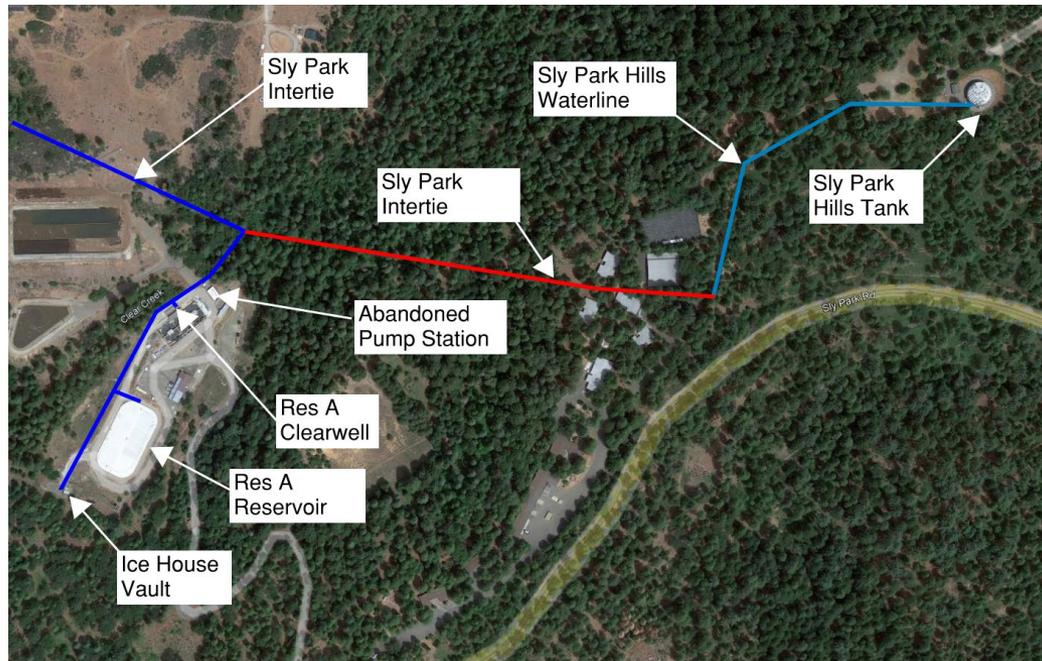


2,000-feet of additional main provides ready and diggable access for future maintenance and repairs

Eliminates:

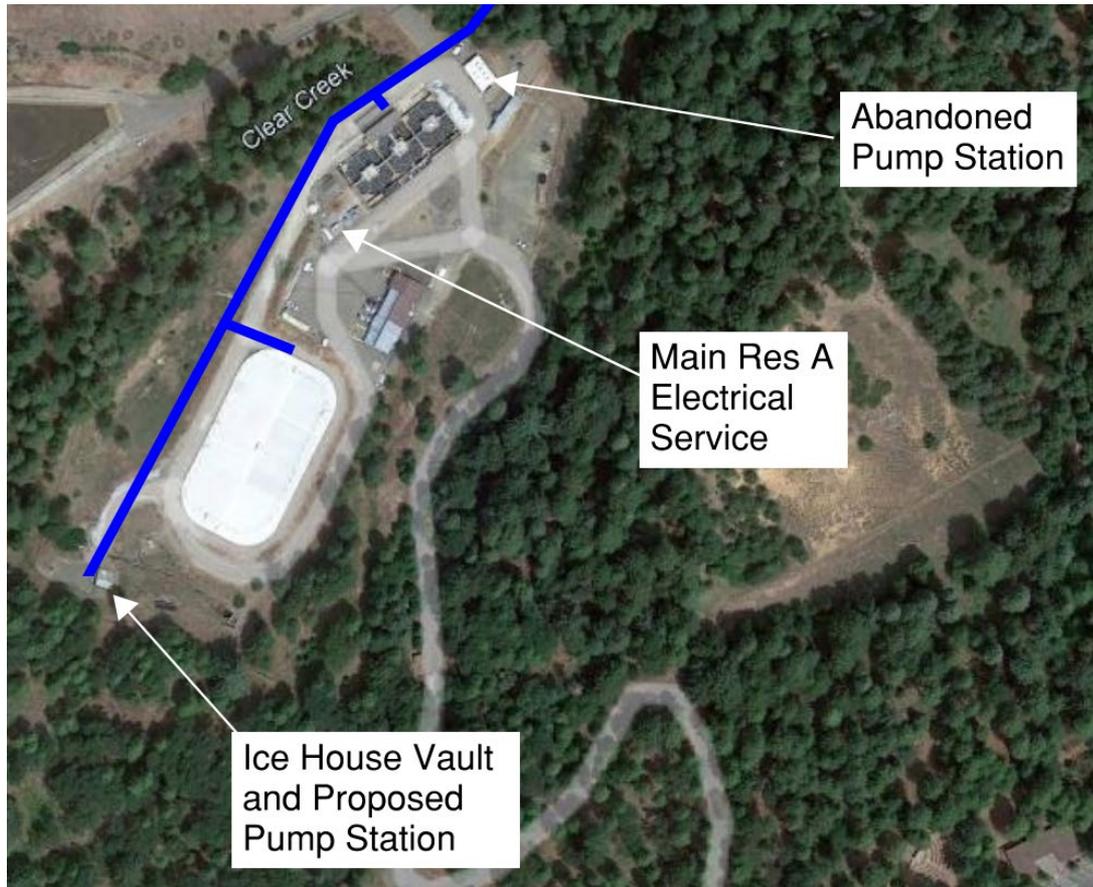
- Existing HWY 50 crossing and casing
- Inaccessible substandard pipe
- Expensive future emergency repairs

Segment 2 – Sly Park Hills Waterline



- Pipeline has significant corrosion and numerous recent repairs
- Included in 2023-2027 Capital Improvement Plan
- Allows consistency and construction efficiencies between projects

PS Backup Power and Electrical Coordination



- Design of backup generator for new SPI pump station
- Coordination with PG&E for electrical service relocation/extension

Design of Pressure Reducing Stations



- Points of connection at clearwell, reservoir, and Ice House Vault
- Provides operational flexibility to isolate Res A facilities for maintenance

Contract Amendment

Task	Amount
Design of pipeline segment from Sportsmans Pump Station to Ridgeway Drive*	\$182,063
Design of Sly Park Hills Waterline	\$100,203
SPI Pump Station Backup Power and Electrical Service Coordination	\$76,028
Design of Multiple Pressure Reducing Stations	\$11,800
Total Funding Request	\$370,094

*Includes proposal for pipeline design (\$151,827) and Caltrans encroachment assistance (\$30,236)

Funding and Schedule

Grants

\$750,000 - County of El Dorado, American Rescue Plan Act of 2021

\$10,000,000 - California Department of Water Resources, 2021 Urban and Multi-benefit Drought Relief Grant Program

Bond Funding

Planned 2024 bond issuance

Schedule

Notice of Preparation – EIR

Pollock Pines Community Center February 15

Complete design/environmental 2023-2024

Construction 2024-2025

Board Options

- **Option 1:**
Approve a contract amendment to Water Work Engineers, Inc. in the not-to-exceed amount of \$370,094 for design of the Sly Park Intertie Improvements and authorize additional funding of \$370,094 for the Sly Park Intertie Improvements Project, Project No. 21079.
- **Option 2:**
Take other action as directed by the Board
- **Option 3:**
Take no action

Recommendation

- **Option 1**

Questions/Comments?
