El Dorado Irrigation District

AGENDA
REGULAR MEETING OF THE BOARD OF DIRECTORS

District Board Room, 2890 Mosquito Road, Placerville, California
September 13, 2021 — 9:00 A.M.

Board of Directors

Pat Dwyer—Division 2
President

Lori Anzini—Division 4
Vice President

George Osborne—Division 1
Director

Brian K. Veerkamp—Division 3
Director

Alan Day—Division 5
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

Mark Price
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.

Please take notice, as a result of the COVID-19 pandemic, California Governor Gavin Newsom issued Executive Order (EO) N-29-20, which waives certain requirements of the Ralph M. Brown Act (Brown Act) in order to prevent gatherings and slow the spread of COVID-19. Specifically, EO N-29-20 waives the requirements that local public agencies (1) notice each teleconference location from which a board member will participate, (2) make each teleconference location accessible to the public, (3) allow the public to address the agency from each teleconference location, (4) post the agenda at each teleconference location, and (5) ensure that a quorum of the board participate in locations within the boundary of the agency. EO N-29-20 requires local public agencies that conduct public meetings telephonically to allow members of the public to observe and address the meeting telephonically or otherwise electronically.

On June 11, 2021, Governor Newsom issued EO N-08-21, which extended the provisions of EO N-29-20 related to the Brown Act described above until September 30, 2021.

As of July 26, 2021, District Board Meetings will be open to in-person attendance by the public and conducted virtually. For in-person participation, unvaccinated individuals should wear a mask indoors at all times, per Centers for Disease Control and Prevention (CDC) guidelines. In accordance with EO N-29-20 and EO N-08-21, the public may participate in the District's Board meeting by teleconference or web conference via the instructions provided below. Members of the public who participate in the meeting via teleconference or web conference will be given the opportunity to speak and address the Board, and their comments will be included in the recording of the meeting. The meeting materials will be available for download from the District's website at www.eid.org. Video recordings of archived Board meetings can be found at the District's YouTube channel at https://www.youtube.com/channel/UCqtTFIOXkzfjsrqj1b095AA/playlists where they are retained in compliance with the District's retention schedule.

PUBLIC PARTICIPATION INSTRUCTIONS

Instructions to join the Board Meeting by telephone only

No accompanying computer or mobile device required. This option will allow participants to listen to Board meeting audio and address the Board during public comment periods by pressing *9 on the telephone keypad.

Dial ***1.669.900.6833*** and enter Meeting ID ***945 6360 8941*** when prompted.

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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 August 23, 2021 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. 2020-006 to maintain an emergency declaration regarding the COVID-19 pandemic.

   Option 1: Ratify Resolution No. 2020-006 to maintain emergency declaration.
   Option 2: Take other action as directed by the Board.
   Option 3: Take no action.

   Recommended Action: Option 1 (*four-fifths vote required*).

3. **Office of the General Manager (Abercrombie)**
   Consider ratifying Resolution No. 2021-009 to maintain a drought emergency.

   Option 1: Ratify Resolution No. 2021-009 to maintain a drought emergency.
   Option 2: Take other action as directed by the Board.
   Option 3: Take no action.

   Recommended Action: Option 1 (*four-fifths vote required*).

4. **Office of the General Manager (Abercrombie)**
   Consider ratifying Resolution No. 2021-012 to maintain an emergency declaration regarding the Caldor Fire.

   Option 1: Ratify Resolution No. 2021-012 to maintain emergency declaration.
   Option 2: Take other action as directed by the Board.
   Option 3: Take no action.

   Recommended Action: Option 1 (*four-fifths vote required*).

5. **Engineering (Kessler)**
   Consider ratifying Resolution 2021-011 to maintain the emergency declaration for the Outingdale Diversion Dam rehabilitation.

   Option 1: Ratify Resolution 2021-010 to maintain an emergency for the Outingdale Diversion Dam rehabilitation.
   Option 2: Take other action as directed by the Board.
   Option 3: Take no action.

   Recommended Action: Option 1 (*four-fifths vote required*).

END OF CONSENT CALENDAR

INFORMATION ITEM

6. **Operations (Corcoran)**
   Caldor Fire update regarding impacts to District facilities.

   Recommended Action: None – Information only.

7. **Engineering (Mueller)**
   Review of the 2013 Integrated Water Resources Master Plan.

   Recommended Action: None – Information only.

8. **Finance (Price)**
   June 30, 2021 Financial Update.

   Recommended Action: None – Information only.

ACTION ITEMS

9. Finance (Pasquarello)

Consider ratifying EID General Warrant Registers for the periods ending August 17, August 24, and August 31, 2021, 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.

10. Engineering (Mueller)

Consider ratifying a time-and-materials construction contract to Syblon Reid Contractors in the not-to-exceed amount of $17,000,000 for the emergency replacement of Flumes 4, 5 and 6, and approve total project funding in the amount of $17,000,000, Project Nos. 21047, 21048, and 21049.

Option 1: Ratify a time-and-materials construction contract to Syblon Reid Contractors in the not-to-exceed amount of $17,000,000 for the emergency replacement of Flumes 4, 5 and 6, and approve total project funding in the amount of $17,000,000, Project Nos. 21047, 21048, and 21049.
Option 2: Take other action as directed by the Board.
Option 3: Take no action.

Recommended Action: Option 1.

11. Engineering (Carrington)

Consider awarding a contract to ATEEM Electrical Engineering, Inc. in the not-to-exceed amount of $362,695 for design of the Emergency Backup Generator Upgrades Project, and authorize additional funding of $70,000 for capitalized labor and $30,000 in contingencies for a total funding request of $462,695 for the Emergency Backup Generator Upgrades Project, Capital Improvement Plan Project Nos. 21040.01 and 21041.01.

Option 1: Award a contract to ATEEM Electrical Engineering, Inc. in the not-to-exceed amount of $362,695 for design of the Emergency Backup Generator Upgrades Project, and authorize additional funding of $70,000 for capitalized labor and $30,000 in contingencies for a total funding request of $462,695 for the Emergency Backup Generator Upgrades Project, Capital Improvement Plan Project Nos. 21040.01 and 21041.01.
Option 2: Take other action as directed by the Board.
Option 3: Take no action.

Recommended Action: Option 1.

CLOSED SESSION

A. Threat to Public Services or Facilities (Ranstrom)
Government Code Section 54957(a) Consultation with Tim Ranstrom, Information Technology Director

REVIEW OF ASSIGNMENTS

ADJOURNMENT

TENTATIVELY SCHEDULED ITEMS FOR FUTURE MEETINGS

Engineering

- Capital Improvement Plan project completion summary, Information, October 12 (Dawson)
- Reservoir 2 recoating contract modification for construction and inspection, Action, October 12 (Wilson)
- Collections pipeline rehabilitation design, Consent, October 12 (Carrington)
- Silver Lake East Campground well design, Action, October 12 (Mutschler)
- Outingdale Diversion Dam Rehabilitation Update, Information, October 12 (Kessler)
- Folsom Heights sewer service area revisions, Information, October 12 (Brink)

Finance

- Audit services contract, Action, October 12 (Pasquarello)

Human Resources

- Temporary staffing services contract, Action, October 12 (Costa/Perez)

Information Technology / Finance

- Customer Service Interactive Voice Response System, Consent, October 12 (Ranstrom/Downey)

Office of the General Counsel

- Easement Quitclaim APN 120-690-012, Consent, October 12 (Sarge)

Operations

- Transmission line right-of-way vegetation maintenance, Information, October 12 (Odzakovic)

El Dorado Irrigation District

MINUTES
REGULAR MEETING OF THE BOARD OF DIRECTORS

District Board Room, 2890 Mosquito Road, Placerville, California
August 23, 2021 — 9:00 A.M.

Board of Directors

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Vice President

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CALL TO ORDER

Vice President Anzini called the meeting to order at 9:03 A.M.

Roll Call
Board

Present: Directors Osborne, Anzini and Day present. Director Veerkamp participated via video conference.

Absent: Director Dwyer

Staff

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

Pledge of Allegiance and Moment of Silence

Vice President Anzini led the Pledge of Allegiance and Moment of Silence dedicated to all those affected by the wildfires and valiant efforts of firefighters.

ADOPT AGENDA

ACTION: Agenda was adopted.

MOTION PASSED

Ayes: Directors Day, Osborne, Veerkamp and Anzini

COMMUNICATIONS

Awards and Recognitions

General Manager Abercrombie reported on a customer's recognition of staff for EID's efforts to inform the public about water conservation.

PUBLIC COMMENT

Dane Wadlé, California Special Districts Association Public Affairs Field Coordinator

COMMUNICATIONS

General Manager

Brief Caldor Fire update

Clerk to the Board

None

Board of Directors

Directors Osborne and Veerkamp commented on the Caldor Fire.

APPROVE CONSENT CALENDAR

ACTION: Consent Calendar was approved.

MOTION PASSED

Ayes: Directors Osborne, Veerkamp, Anzini and Day

CONSENT CALENDAR

1. **Clerk to the Board (Sullivan)**
   Consider approving the minutes of the August 9, 2021 regular meeting of the Board of Directors.

   ACTION: Option 1: Approved as submitted.

   MOTION PASSED
   Ayes: Directors Osborne, Veerkamp, Anzini and Day

2. **Office of the General Manager (Abercrombie)**
   Consider ratifying Resolution No. 2020-006 to maintain an emergency declaration regarding the COVID-19 pandemic.

   ACTION: Option 1: Ratified Resolution No. 2020-006 to maintain emergency declaration.

   MOTION PASSED
   Ayes: Directors Osborne, Veerkamp, Anzini and Day

3. **Office of the General Manager (Abercrombie)**
   Consider ratifying Resolution No. 2021-009 to maintain a drought emergency.

   ACTION: Option 1: Ratified Resolution No. 2021-009 to maintain a drought emergency.

   MOTION PASSED
   Ayes: Directors Osborne, Veerkamp, Anzini and Day

4. **Office of the General Manager (Abercrombie)**
   Consider adopting a resolution ratifying the General Manager's declaration of an emergency for the Caldor Fire.

   ACTION: Option 1: Adopted Resolution No. 2021-012 ratifying the General Manager's declaration of an emergency for the Caldor Fire.

   MOTION PASSED
   Ayes: Directors Osborne, Veerkamp, Anzini and Day

5. **Engineering (Kessler)**
   Consider ratifying Resolution No. 2021-011 to maintain the emergency declaration for the Outingdale Diversion Dam rehabilitation.

   ACTION: Option 1: Ratified Resolution No. 2021-011 to maintain the emergency declaration for the Outingdale Diversion Dam rehabilitation.

   MOTION PASSED
   Ayes: Directors Osborne, Veerkamp, Anzini and Day

6. **Engineering (Kessler)**
   Consider authorizing additional funding for the Penstock Improvements Project in the amounts of $150,000 for capitalized labor, $40,000 for engineering and environmental services, $40,000 for materials, and $30,000 for helicopter services for a total funding request of $260,000 for the Penstock Improvements Project, Capital Improvement Plan Project No. 18010.

   ACTION: Option 1: Authorized additional funding for the Penstock Improvements Project in the amounts of $150,000 for capitalized labor, $40,000 for engineering and environmental services, $40,000 for materials, and $30,000 for helicopter services for a total funding request of $260,000 for the Penstock Improvements Project, Capital Improvement Plan Project No. 18010.

   MOTION PASSED
   Ayes: Directors Osborne, Veerkamp, Anzini and Day

7. **Office of the General Counsel (Sarge)**
   Consider adopting a resolution quitclaiming an easement to landowners of Assessor Parcel No. 076-133-009 for portions of an unused easement.

   ACTION: Option 1: Adopted Resolution No. 2021-013 quitclaiming an easement to landowners of Assessor Parcel No. 076-133-009 for portions of an unused easement.

   MOTION PASSED
   Ayes: Directors Osborne, Veerkamp, Anzini and Day

8. **Human Resources (Perez)**
   Consider accepting the negotiated Letters of Understanding between the District and the Association of El Dorado Irrigation District Employees and the El Dorado Irrigation District Managers and Supervisors Association which temporarily designate Kaiser Permanente as the District's benchmark plan for 2022.

   ACTION: Option 1: Accepted the negotiated Letters of Understanding between the District and the Association of El Dorado Irrigation District Employees and the El Dorado Irrigation District Managers and Supervisors Association which temporarily designate Kaiser Permanente as the District's benchmark plan for 2022.

   MOTION PASSED
   Ayes: Directors Osborne, Veerkamp, Anzini and Day

END OF CONSENT CALENDAR

INFORMATION ITEM

9. Operations / Office of the General Counsel (Corcoran/Poulsen)

Status Update on 2021 water supplies and discussion of legal considerations regarding water usage restrictions.

ACTION: None – Information only.

ACTION ITEMS

10. Finance (Pasquarello)

Consider ratifying EID General Warrant Registers for the periods ending August 3 and August 10, 2021, and Employee Expense Reimbursements for these periods.

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

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

MOTION PASSED

Ayes: Directors Osborne, Day and Anzini

11. Engineering (Venable)

Consider awarding a contract to Julian Tree Care, Inc. in the not-to-exceed amount of $182,500 for hazardous fuel treatments at the El Dorado Canal diversion and Reservoir A water treatment plant facilities for the El Dorado Canal Vegetation Management Project, Project No. Grant12.02.

ACTION: Option 2: Took other action as directed by the Board.
Awarded a contract to Julian Tree Care, Inc. in the not-to-exceed amount of $182,500 for hazardous fuel treatments at the El Dorado Canal diversion and Reservoir A water treatment plant facilities, and authorized the General Manager to re-negotiate the scope of services, if necessary due to impacts associated with the Caldor Fire, El Dorado Canal Vegetation Management Project, Project No. Grant12.02.

MOTION PASSED

Ayes: Directors Osborne, Day, Veerkamp and Anzini

12. Engineering (Mutschler)

Consider awarding contracts to Syblon Reid Construction in the not-to-exceed amount of $8,782,400 for construction of the Flume 30 Replacement Project, GHD in the not-to-exceed amount of $697,450 for construction engineering services, and GHD in the not-to-exceed amount of $290,000 for general inspections; and authorize additional funding of $375,000 for capitalized labor, $30,000 for environmental support, and $1,017,485 in contingency, for a total funding request of $11,192,335 for the Flume 30 Replacement Project, Capital Improvement Plan Project No.17041.01.

ACTION: Option 1: Awarded contracts to Syblon Reid Construction in the not-to-exceed amount of $8,782,400 for construction of the Flume 30 Replacement Project, GHD in the not-to-exceed amount of $697,450 for construction engineering services, and GHD in the not-to-exceed amount of $290,000 for general inspections; and authorized additional funding of $375,000 for capitalized labor, $30,000 for environmental support, and $1,017,485 in contingency, for a total funding request of $11,192,335 for the Flume 30 Replacement Project, Capital Improvement Plan Project No.17041.01.

MOTION PASSED

Ayes: Directors Veerkamp, Osborne, Anzini and Day

REVIEW OF ASSIGNMENTS

None

ADJOURNMENT

Vice President Anzini adjourned the meeting at 10:41 A.M.

_____

Lori Anzini
Board Vice 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. 2020-006 to maintain an emergency declaration regarding the COVID-19 pandemic.

PREVIOUS BOARD ACTION

March 23, 2020 – Board declared an emergency under applicable provisions of law and Board Policy as a result of the COVID-19 pandemic and authorized the General Manager to take all actions necessary and appropriate in response to the emergency. At every regular Board meeting since beginning of the pandemic, the Board has ratified Resolution No. 2020-006 to maintain the emergency declaration.

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

BP 2050 Administrative Leeway in the Absence of Policy
BP 3060 Contracts and Procurement
Public Contract Code sections 1102, 20567 and 22050 et. seq.
Public Resources Code section 21080(b) and California Environmental Quality Act ("CEQA") Guidelines section 15269
Government Code section 54956.5
Governor Newsom's Executive Orders N-25-20, N-29-20, and N-08-21

SUMMARY OF ISSUE

COVID-19 has become a global pandemic. Governments at all levels including federal, state, and local have declared a state of emergency. This action is to ratify Board Resolution No. 2020-006 which declares an emergency and authorizes the General Manager to take necessary and appropriate action in response. The General Manager will provide periodic updates to the Board on the District's response to COVID-19 during his General Manager's report.

BACKGROUND/DISCUSSION

On March 4, 2020, Governor Newsom declared a state of emergency as a result of the COVID-19 pandemic. On March 12, 2020, El Dorado County declared a public health emergency. The following day, March 13, the then-President of the United States declared a national emergency.

The District performs a critical health and safety function for our customers—the supply of safe drinking water and wastewater services. It is imperative that the District continue to provide those critical functions during this emergency.

In order to ensure that the District is able to meet both the anticipated and unanticipated challenges that it is likely to face, the General Manager must have maximum flexibility in his ability to respond. District Board Policy 2050 authorizes the District's General Manager to act "in emergency situations where no Board Policies or Administrative Regulations exist." District

Board Policy 3060, delegates to the General Manager authority to approve any and all contracts necessary to abate an emergency after first informing the President of the Board of Directors and scheduling an emergency meeting of the Board of Directors at the earliest possible opportunity.

Various provisions of law, including provisions in the Public Contracting Code, Public Resources Code, and Government Code govern aspects of the District's operations during declared emergencies.

In addition to declarations of emergency described above, Governor Gavin Newsom issued an executive order on March 12, 2020, relaxing some of the requirements of the Brown Act related to public meetings of local public agencies. The purpose of the executive order is to ensure social distance and reduce the risk of spreading the COVID-19 virus. On March 17, 2020, Governor Newsom issued a new Executive Order, N-29-20, which further relaxed certain provisions of the Brown Act with regard to conducting public meetings. As a result of these orders, and in order to (1) protect the health and safety of District staff and the public, and (2) comply with restrictions imposed by State and Local health officials, the General Manager has periodically closed District facilities to the public, including the headquarters facility.

On June 11, 2021, in light of the improved state of the COVID-19 pandemic in California, Governor Newsom issued Executive Order N-08-21, which rolled back many of the COVID-19-related provisions of prior executive orders. However, Executive Order N-08-21 extended the provisions of Executive Order N-29-20 related to the Brown Act described above until September 30, 2021.

On July 26, 2021, the District began holding Board Meetings in-person at District headquarters and conducting them virtually. In accordance with EO N-29-20 and EO N-08-21, the public may participate in the District's Board meeting by teleconference or web conference and each Board meeting agenda provides instructions for how to participate. The public may also attend in-person and are encouraged to follow local, state, and federal guidelines regarding face coverings.

BOARD OPTIONS

Option 1: Ratify Resolution No. 2020-006 to maintain emergency declaration.

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

Option 3: Take no action.

RECOMMENDATION

Option 1 *(four-fifths vote required).*

ATTACHMENTS

Attachment A: Resolution No. 2020-006

Brian Poulsen
General Counsel

Jim Abercrombie
General Manager

Resolution No. 2020-006

RESOLUTION OF THE BOARD OF DIRECTORS OF EL DORADO IRRIGATION DISTRICT DECLARING AN EMERGENCY

WHEREAS, EL DORADO IRRIGATION DISTRICT (District) has encountered an emergency with regard to the COVID-19 pandemic, which requires prompt action to prevent or mitigate impairment to life, health, safety, property, and/or essential public services; and

WHEREAS, Government Code section 54956.5(a)(1) defines "emergency" as "a work stoppage, crippling activity, or other activity that severely impairs public health, safety, or both, as determined by a majority of the members of the legislative body;" and

WHEREAS, Government Code section 54956.5(a)(2) defines "dire emergency" as "a crippling disaster, mass destruction, terrorist act, or threatened terrorist activity that poses peril so immediate and significant that requiring a legislative body to provide one-hour notice before holding an emergency meeting may endanger the public health, safety, or both, as determined by a majority of the members of the legislative body;" and

WHEREAS, Public Contract Code section 1102 defines "emergency" as "a sudden, unexpected occurrence that poses a clear and imminent danger, requiring immediate action to prevent or mitigate the loss or impairment of life, health, property, or essential public services," and

WHEREAS, California Environmental Quality Act (CEQA) Guidelines section 15359 defines "emergency" as "a sudden, unexpected occurrence, involving a clear and imminent danger, demanding immediate action to prevent or mitigate loss of, or damage to life, health, property, or essential public services;" and

WHEREAS, Government Code section 54956.5(b)(1) and (2) authorize legislative bodies to hold emergency meetings in the case of an emergency or dire emergency involving matters upon which prompt action is necessary due to the disruption or threatened disruption of public facilities; and

WHEREAS, District Board Policy 2050 authorizes the District's General Manager to act "in emergency situations where no Board Policies or Administrative Regulations exist;" and

WHEREAS, Public Contract Code sections 22050(a)(1) and 20567 authorize irrigation districts to let contracts without notice for bids in case of an emergency; and

WHEREAS, Public Contract Code section 22050(b)(1) authorizes the Board of Directors, by a four-fifths (4/5ths) vote, to delegate to the General Manager the authority to order any action pursuant to paragraph (1) of subdivision (a) of Public Contract Code section 22050; and

WHEREAS, District Board Policy 3060, delegates to the General Manager authority to approve any and all contracts necessary to abate an emergency after first informing the President of the Board of Directors and scheduling an emergency meeting of the Board of Directors at the earliest possible opportunity; and

WHEREAS, Public Resources Code section 21080(b)(2) exempts from CEQA emergency repairs to public service facilities necessary to maintain services; and

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

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

1. The Board finds and declares that an emergency situation exists within the meaning of the enactments marked below:

   Public Contract Code section 1102;

   CEQA Guidelines section 15359;

   Public Contract Code section 20567;

   District Board Policy 3060;

   Public Contract Code section 22050(a)(1);

   Public Resources Code section 21080(b)(2);

   Public Resources Code section 21080(b)(4) and CEQA Guidelines section 15269(c);

2. The foregoing findings and declarations are based upon written, oral, and visual evidence, including both facts and professional opinions, presented to the Board at the hearing of this Resolution and upon the Minutes of the meeting at which this Resolution was adopted.
3. The Board hereby ratifies all actions taken by the District General Manager and his designees, prior to the adoption of this Resolution, which the General Manager and his designees reasonably deemed necessary to respond to the emergency declared herein.
4. The Board hereby delegates, authorizes, and directs the District General Manager and his designees to take all further actions reasonably deemed necessary to respond to the emergency declared herein. The General Manager or his designees shall report to and seek ratification of the Board of Directors for each action taken in excess of their normal authority, at the first regular Board of Directors meeting held after each such action.

5. This Resolution shall take effect immediately upon adoption. Subject to the ratification required by Public Contract Code sections 22050(b)(3), (c)(1), and (c)(2), and by Board Policy 3060, this Resolution shall remain in full force an effect until rescinded by a subsequent Resolution of the Board of Directors.

The foregoing Resolution was introduced at a regular meeting of the Board of Directors of the EL DORADO IRRIGATION DISTRICT, held on the 23rd day of March 2020, by Director Osborne who moved its adoption. The motion was seconded by Director Raffety and a poll vote taken which stood as follows:

AYES: Directors Osborne, Raffety, Dwyer, Anzini and Day

NOES:

ABSENT:

ABSTAIN:

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

George Osborne, President
Board of Directors
EL DORADO IRRIGATION DISTRICT

ATTEST:

Jennifer Sullivan
Clerk to the Board
EL DORADO IRRIGATION DISTRICT

(SEAL)

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I, the undersigned, Clerk to the Board of the EL DORADO IRRIGATION DISTRICT hereby certify that the foregoing resolution is a full, true and correct copy of a Resolution of the Board of Directors of the EL DORADO IRRIGATION DISTRICT entered into and adopted at a regular meeting of the Board of Directors held on the 23rd day of March 2020.

Jennifer Sullivan
Clerk to the Board
EL DORADO IRRIGATION DISTRICT

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EL DORADO IRRIGATION DISTRICT

SUBJECT: Consider ratifying Resolution No. 2021-009 to maintain a drought emergency.

PREVIOUS BOARD ACTION

June 14, 2021 – Board adopted the 2021 Drought Action Plan.

June 28, 2021 – Board adopted Resolution No. 2021-009 declaring a drought emergency and a Stage 1 Water Alert districtwide and authorized the General Manager, subject to subsequent Board ratification, to declare a Stage 4 Water Emergency for Outingdale customers when necessary.

July 26, 2021 – Board ratified Resolution No. 2021-009 to maintain the drought emergency and ratified the General Manager's declaration of a Stage 4 Water Emergency for Outingdale customers. At every regular Board meeting since beginning of the drought, the Board has ratified Resolution No. 2020-009 to maintain the drought emergency.

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

BP 5010 Water Supply Management
BP 5030 Water Conservation
BP 5040 Drought Preparedness and Climate Variability

SUMMARY OF ISSUE

Although the District's water supply portfolio for the contiguous water system remains adequate, water levels at Folsom Lake and Jenkinson Lake later this year are becoming an increasing concern and the District must guard against worsening conditions and the possibility of another dry year. Folsom Lake is projected to potentially reach all-time lows by the end of the year, which may impact our ability to pump water from the reservoir at the intake facility. If current demand patterns continue and we experience a dry fall season, Jenkinson Lake is projected to drop to 14,400-16,600 acre-feet of storage by the end of the year.

In the Outingdale community, the flow in the Middle Fork Cosumnes River, which serves as the community's sole water source, has become so low that the District is unable to safely divert water. The General Manager declared a Stage 4 Water Emergency in Outingdale which the Board ratified on July 26, 2021, pursuant to Resolution No. 2021-009. On that date, the District began trucking water to Outingdale from the main system for health and safety use, as conducted during 2014 and 2015.

BACKGROUND/DISCUSSION

Stage 1 Water Alert

In accordance with the 2021 Drought Action Plan, the objective of a Stage 1 Water Alert is to initiate public awareness of a possible water shortage in the near future, and to encourage water conservation. Stage 1 actions target up to a 15-percent demand reduction through the implementation of voluntary measures. Along with many staff actions centered around customer outreach, water waste, monitoring of demands and District water supplies, the Drought Action Plan identifies the following voluntary measures focused on outdoor irrigation as a way to achieve water savings:

1. Apply irrigation water during evening and early morning hours only (7 PM to 10 AM);
2. Inspect irrigation system for leaks and then repair or replace;
3. Adjust sprinkler run times to avoid runoff.

Customers may also achieve water savings by reducing the number of days of outside irrigation and/or reducing sprinkler run times. In general, customers are encouraged to review their individual water usage and look for ways to reduce their usage by up to 15 percent. The District does not mandate any conservation measures in a Stage 1 Water Alert.

Stage 4 Water Emergency for Outingdale

The District delivered letters and email notifications to all Outingdale customers on June 16 and July 8, 2021, asking them to prepare for a pending water emergency. On July 26, 2021, the District delivered letters and email notifications to all Outingdale customers informing them of a Stage 4 Water Emergency. The objective of a Stage 4 Water Emergency is to reduce water demands in order to achieve a greater than 50-percent reduction, which may be accomplished through effective public outreach, enforcement of extensive restrictions on water use, and implementation of water rationing.

Customers subject to a Stage 4 Water Emergency will be required to reduce water usage by a minimum of 50%, limiting water usage during each bimonthly billing cycle to **401 cubic feet (approximately 3,000 gallons) of water per person**. This equates to **50 gallons per person per day**, which is the California Department of Water Resources' standard for meeting minimum health and safety requirements.

The Drought Action Plan identifies the following mandatory conservation measures in Stage 4:

1) *Prohibited*: Automatic sprinklers for the irrigation of existing turf, ornamental plants, garden or landscaped areas.
    a) Watering may ONLY occur by hand-held hose with shut-off nozzle or by a drip irrigation system.
2) *Mandatory*: Single-family and multi-family residential meters are limited to 50 gallons per person per day **allotment** per bimonthly billing cycle for "health and safety" purposes.
    a) Allotments can be increased for special health-related issues.
3) *Mandatory*: Recreational Turf, non-IMS Ag, and Small Farm customers must **reduce their usage** by 65 percent, based upon their usage during the same billing cycle in the base period.
4) *Mandatory*: IMS agricultural customers must **reduce their usage** by 40 percent, based upon their usage during the same billing cycle in the base period. IMS customers already have restricted use through weekly soil moisture data sampling and comply with irrigation schedule.
5) *Allowed*: Vital healthcare and public safety uses are exempt.
6) *Mandatory:* Commercial, Industrial & Institutional (CII): Reduce by 65 percent.

Using the 2014–2015 experience, the Stage 4 Water Emergency is anticipated to be temporary and staff would recommend the Board authorize the General Manager to roll back to a Stage 1 later in the year when flow in the Middle Fork Cosumnes River recovers sufficiently to resume normal water deliveries. Staff will continuously monitor flows in the river, customer water conservation efforts, and keep the community apprised of changing supply conditions.

FUNDING

N/A

BOARD OPTIONS

Option 1: Ratify Resolution No. 2021-009 to maintain a drought emergency.

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

Option 3: Take no action.

RECOMMENDATION

Option 1

ATTACHMENTS

Attachment A: Resolution No. 2021-009
Attachment B: 2021 Drought Action Plan
Attachment C: June 16, 2021 Outingdale Community Outreach Letter
Attachment D: July 8, 2021 Outingdale Community Outreach Letter
Attachment E: July 26, 2021 Outingdale Community Outreach Letter

Brian Poulsen
General Counsel

Jim Abercrombie
General Manager

Resolution No. 2021-009

RESOLUTION OF THE BOARD OF DIRECTORS OF EL DORADO IRRIGATION DISTRICT DECLARING A STATE OF EMERGENCY, STAGE 1 WATER ALERT DISTRICTWIDE AND AUTHORIZING THE GENERAL MANAGER TO DECLARE A STAGE 4 WATER EMERGENCY FOR OUTINGDALE

WHEREAS, El Dorado Irrigation District (District) has experienced dry and critically dry conditions since 2020, with unimpaired flows through May 2021 for the Sacramento Valley (including American River) ranking 4th driest in the historical record. American River flows are 27 percent of average; and

WHEREAS, on May 10, 2021, Governor Gavin Newsom expanded his April 21 drought emergency proclamation to include El Dorado County; and

WHEREAS, on May 13, 2021, the Regional Water Authority approved a resolution calling on its member agencies to ask their customers to voluntarily conserve 10% of their water, or take other actions that will result in an equivalent amount of 10% in water conservation; and

WHEREAS, on June 15, 2021, the State Water Resources Control Board sent notices of water unavailability to post-1914 water right holders in the Delta watershed, including the District, urging them to stop diverting to preserve dwindling water supply for both this year and the next; and

WHEREAS, as of June 21, 2021, the United States Drought Monitor states that all of El Dorado County is in an Extreme Drought condition; and

WHEREAS, the lack of inflow has resulted in a worsening end-of-season projection for Folsom Lake storage, and levels may be lower than the drought conditions in 2014 and 2015, threatening the reliable delivery of water from the District's intake pump station; and

WHEREAS, Jenkinson Lake, the District's largest source of supply at 41,033 acre-feet capacity, did not fill in 2021 despite the importation of more than 8,100 acre-feet of water through the Hazel Creek tunnel over the past winter and spring; and

WHEREAS, Jenkinson Lake storage is declining and is projected to decrease to approximately 14,400-15,600 acre-feet by the end of the year if dry conditions continue this fall; and

WHEREAS, flows in the Middle Fork Cosumnes River are declining and are projected to continue to decrease to a quantity that is insufficient to serve customers in Outingdale; and

WHEREAS, without an adequate quantity of water in the Middle Fork Cosumnes River to serve customers in Outingdale, the District will be required to haul potable water to Outingdale from the main water system; and

WHEREAS, on June 14, 2021, the Board adopted the District's 2021 Drought Action Plan; and

WHEREAS, the District's adopted 2021 Drought Action Plan provides for an incremental, multi-stage drought response, summarized as follows:

- In a declared Stage 1 Water Supply Alert, customers are called on to voluntarily reduce water usage by 15%;
- In a declared Stage 2 Water Supply Warning, a combination of voluntary and mandatory actions are intended to reduce water usage by 30%;
- In a declared Stage 3 Water Supply Crisis, mandatory actions and/or water rationing are intended to reduce water usage by 50%; and
- If water supplies are still insufficient, a Water Supply Emergency is declared and mandatory rationing is imposed to reduce water usage by more than 50%; 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

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

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

WHEREAS, Public Contract Code section 22050(a)(2) requires that before action is taken to procure equipment, services, and supplies without giving notice for bids, the governing body must first make a finding, based on substantial evidence set forth in the minutes of its meeting, that the 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

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

WHEREAS, District Board Policy 2050 authorizes the District's General Manager to act "in emergency situations where no Board Policies or Administrative Regulations exist;" and

WHEREAS, District Administrative Regulation 3061.1, subdivision g, authorizes emergency procurements of supplies, equipment, services, or construction items when there exists a threat to public health, welfare, or safety, and requires Board of Directors ratification of emergency procurements exceeding $100,000; and

WHEREAS, Water Code sections 350 et seq. authorize the Board of Directors to declare a water supply emergency whenever it finds and determines, during a noticed public hearing, that the ordinary demands and requirements of water consumers cannot be satisfied without depleting the District's water supplies; and

WHEREAS, the District published notice of a public hearing to consider a water supply emergency, pursuant to Water Code section 351 and Government Code section 6061, on June 21, 2021.

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

1. The Board finds and declares that the current drought conditions constitute an emergency within the meaning of CEQA Guidelines section 15359, Public Contracts Code section 11102, District Board Policy 2050, and District Administrative Regulation 3061.1, subdivision g.
2. The Board finds and determines, pursuant to Water Code section 350, that a water shortage emergency condition exists within all or part of the District's service area and that the ordinary demands and requirements of District customers cannot be satisfied without depleting District supplies.
3. The Board declares a Stage 1 Water Alert Districtwide, effective immediately.
4. The Board authorizes the General Manager, subject to subsequent Board ratification, to declare a Stage 4 Water Emergency for Outingdale customers when necessary.
5. The Board finds and declares that the adoption of this Resolution and all of the delegations, authorizations, and directions to the General Manager and District staff specified in paragraph 7, below, satisfy the requirements and criteria of Public Resources Code section 21080(b)(4), CEQA Guidelines section 15269(c), and Public Contract Code sections 22050(a)(2) and 20567.
6. The foregoing findings and declarations are based upon all written, oral, and visual evidence, including both facts and professional opinions, presented to the Board at the hearing of this Resolution.
7. The Board hereby delegates, authorizes, and directs the District General Manager and his designees to take all actions reasonably deemed necessary to

respond to the emergency conditions declared herein, including but not limited to the following specific actions:

a. Implement all voluntary Stage 1 drought actions, as detailed in the 2021 updated Drought Action Plan.

b. Enter into professional services and construction contracts as reasonably deemed necessary to expedite the preservation and enhancement of water supply availability for the District's customers.

c. Report to and seek ratification of the Board for any actions taken in excess of normal authority or authority expressly granted by this Resolution, at the first regular Board meeting held after each such action.

d. Report to the Board at least monthly, and more often if necessary, on the current status of the drought conditions, responsive actions taken, weekly water usage data, and the need, if any, for further Board actions.

8. This Resolution shall take effect immediately upon adoption. Subject to the ratification required by Public Contract Code sections 22050(b)(3), (c)(1), and (c)(2), and by District Administrative Regulation 3061.1, subdivision g, this Resolution shall remain in full force and effect until rescinded by a 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 28th day of June 2021, by Director Osborne who moved its adoption. The motion was seconded by Director Veerkamp and a poll vote taken which stood as follows:

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

NOES:

ABSENT:

ABSTAIN:

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

Roger "Pat" Dwyer, President
Board of Directors
EL DORADO IRRIGATION DISTRICT

ATTEST:

Jennifer Sullivan
Clerk to the Board
EL DORADO IRRIGATION DISTRICT

(SEAL)

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I, the undersigned, Clerk to the Board of the EL DORADO IRRIGATION DISTRICT hereby certify that the foregoing resolution is a full, true and correct copy of a Resolution of the Board of Directors of the EL DORADO IRRIGATION DISTRICT entered into and adopted at a regular meeting of the Board of Directors held on the 28th day of June 2021.

Jennifer Sullivan
Clerk to the Board
EL DORADO IRRIGATION DISTRICT

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El Dorado Irrigation District

DROUGHT ACTION PLAN 2021 UPDATE

PURPOSE. This Drought Action Plan serves as a detailed work plan for El Dorado Irrigation District staff and our customers, not only during drought conditions, but before and after as well. It includes specific actions for management of the District's water supply and demand, addresses the impacts associated with drought, and facilitates the timely implementation of effective drought responses.

CHANGES. The original foundation of this action plan is the District's 2008 Drought Preparedness Plan. The drought action plan was created and underwent several changes in 2014 and 2015 to reflect the then-current conditions and to comply with State-mandated conservation levels and actions applicable at that time. Recent changes to the plan include removal of some of the specific conservation levels required by the state at the time and a return to the original drought stages and corresponding target conservation levels. The Plan has also been updated to comply with California Water Code (CWC) §10632, which lists new requirements for urban water suppliers regarding development of a Water Shortage Contingency Plan. Accordingly, this Drought Action Plan 2021 Update includes new sections and information specifically aimed at addressing the requirements. For purposes of compliance with CWC §10632, the terms Drought Action Plan (or Plan) and Water Shortage Contingency Plan are considered synonymous.

ADOPTION. The Drought Action Plan was first adopted by the Board on February 4, 2014. Subsequent revisions to the Plan were approved in 2014 and 2015 as the District navigated through that drought. The Board adopted the 2021 Drought Action Plan on June 14, 2021.

Table of Contents

1.0 Introduction

1.1 Purpose of this Plan

In 2007, the El Dorado Irrigation District (EID or District) and the El Dorado County Water Agency (EDCWA) completed comprehensive drought preparedness plans that provided indicators and modeling tools to determine when El Dorado County, and specifically each water purveyor, might enter into drought conditions. In January of 2008, the EID Board of Directors adopted the District's Drought Preparedness Plan. District staff then developed an internal action plan to address specific tasks and detailed actions, which was completed in March of 2009, and was based upon the drought metrics and customer responses provided in EID's Drought Preparedness Plan. The plan was then updated in 2014 and 2015.

This 2021 Drought Action Plan Update (Plan) continues to serve as a detailed work plan for District staff in order to prepare for and address supply shortages, including shortages from drought conditions and catastrophic interruption of supplies. It includes specific actions regarding the management of water supply and demand, addresses the impacts associated with supply shortage conditions, and facilitates a District-wide supply shortage response that is both timely and effective. This Plan is also listed in Part III of the District's Emergency Operations Plan.

The Plan complies with California Water Code (CWC) §10632, which lists requirements for urban water suppliers regarding development of a Water Shortage Contingency Plan. Accordingly, this 2021 Drought Action Plan Update includes new sections and information specifically aimed at addressing those requirements. For purposes of compliance with CWC §10632, the terms Drought Action Plan (or Plan) and Water Shortage Contingency Plan are synonymous.

1.2 Adoption, Submittal, and Availability

The Plan (including subsequent updates) shall be adopted in accordance with standard District procedures, including requirements for public participation, and adoption by the EID Board of Directors. Upon adoption, the Plan will be provided to the City of Placerville, El Dorado County, and submitted to DWR within 30 days. The adopted Plan will be available on the District's website.

1.3 Summary of Reliability Assessments

As part of EID's 2020 Urban Water Management Plan (UWMP), two separate assessments were conducted to evaluate both the near- and long-term reliability of the District's supplies. The District's Water Reliability Assessment was conducted for normal year, single-dry year, and a drought lasting five consecutive years, and is used to evaluate long-term supplies with demands over the next 25 years, in five year increments. The Drought Risk Assessment assumes the occurrence of a drought over the next five years, and aims to assess EID's near-term reliability.

Results from the Water Reliability Assessment indicate EID has ample supplies through 2045 to meet expected customer demands under the normal year, single-dry year, and five-year drought conditions. Similarly, the District's Drought Risk Assessment indicates sufficient supplies to meet expected demands during an assumed drought occurring in the next five consecutive years (2021-2025). For a more detailed description of the assessments, the reader is referred to the District's 2020 UWMP.

1.4 Summary of Drought Stages

All declarations of drought stages occur by action of the EID Board of Directors. As a policy, EID implements the same drought stage and employs the same response measures throughout its

geographical water supply regions whenever possible, making public outreach and implementation consistent and effective. However, different stages can and have been applied to the District's two satellite water systems compared to the main system to account for system-specific conditions. To see an example of a drought declaration, resolution, and staff report, refer to the February 4, 2014 Board packet and Public Hearing Item Number 1.

The drought stages defined by this Plan are consistent with the 2010 recommendations of a Regional Water Authority (RWA) work group, which consisted of ten member agencies in the Sacramento region. The group was tasked with developing a regional water shortage contingency plan that would provide consistent messaging for the region, and ranges from Stages 1 through 4 as the water shortage becomes progressively worse. When a drought stage is declared by the water purveyor's governing body, as deemed necessary, the individual purveyors would also determine the actual water demand reductions for each declared stage. If conditions warrant, the District will coordinate with the City of Placerville and El Dorado County for the possible proclamation of a local emergency, as defined in Section 8558 of the Government Code.

The four stages of the EID Drought Action Plan depend upon District water supply conditions, and the corresponding response requested of our customers. For normal water supply conditions, the District would continue to implement water efficiency measures and prohibit water waste, while raising public awareness regarding water efficiency practices. Prohibitions on water waste during all stages, including Normal Water Supply are outlined in Administrative Regulation (AR) 1041 (Water Waste Prohibition).

If water supplies become slightly restricted, the Plan calls for an introductory **Stage 1** drought response, during which customers are informed of possible shortages and asked to voluntarily conserve up to 15 percent. At **Stage 2** when water supplies become moderately restricted, both voluntary and mandatory measures are implemented to achieve a demand reduction goal of up to 30 percent. If water supplies subsequently become severely restricted, a **Stage 3** drought can be called with the enforcement of mandatory measures to achieve a demand reduction goal of up to 50 percent. Lastly, if drought conditions persist and the District experiences extremely restricted water supplies, then a **Stage 4** can be implemented that requires water rationing for health and safety purposes in order to achieve a greater than 50 percent reduction of demands.

Table 1 summarizes these water supply conditions and the corresponding drought stages, titles, and objectives; along with the expected response actions and demand reduction targets.

Table 1 - Drought Stages Summary				
Water Supply Conditions	**Drought Stage**	**Stage Title**	**Stage Objective**	**Response Actions**
Normal Water Supply	**None** - Ongoing water conservation and enforcement of water waste prohibition.	Normal Conditions	Public awareness of water efficiency practices and prohibition of water waste.	Public outreach and education for ongoing water efficiency practices and the prohibition of water waste.
Slightly Restricted Water Supplies Up to 15% Supply Reduction	**Stage 1** Introductory stage with voluntary reductions in use.	Water Alert	Initiate public awareness of predicted water shortage and encourage conservation.	Encourage voluntary conservation measures to achieve **up to a 15% demand reduction.**
Moderately Restricted Water Supplies Up to 30% Supply Reduction	**Stage 2** Voluntary and mandatory reductions in water use.	Water Warning	Increase public awareness of worsening water shortage conditions. Enforce mandatory measures such as watering restrictions.	Voluntary conservation measures are continued, with the addition of some mandatory measures to achieve **up to a 30% demand reduction.**
Severely Restricted Water Supplies Up to 50% Supply Reduction	**Stage 3** Mandatory reductions in water use.	Water Crisis	Enforce mandatory measures and/or implement water rationing to decrease demands.	Enforce mandatory measures to achieve **up to a 50% demand reduction.**
Extremely Restricted Water Supplies Greater than 50% Supply Reduction	**Stage 4** Water rationing for health and safety purposes.	Water Emergency	Enforce extensive restrictions on water use and implement water rationing to decrease demands.	Enforce mandatory measures to achieve **greater than 50% demand reduction.**

Water Code Section 10632(a)(3) calls on suppliers to identify six standard water shortage levels from the normal reliability (10, 20, 30, 40, 50 and greater than 50 percent shortage) in their Water Shortage Contingency Plan. EID has instead chosen to use the existing four shortage levels identified in this Drought Action Plan for consistency with past droughts and ease of implementation. Pursuant to Water Code Section 10632(a)(3)(B), Table 2 cross-references this Plan's shortage levels to the State identified levels.

Table 2

State Mandated Shortage Levels	EID Drought Action Plan Levels	
Stage 1: 0 – 10%	Stage 1 – Water Alert	0 – 15%
Stage 2: 10 – 20%	Stage 1 – Water Alert Stage 2 – Water Warning	0 – 15% 15 – 30%
Stage 3: 20 – 30%	Stage 2 – Water Warning	15 – 30%
Stage 4: 30 – 40%	Stage 3 – Water Crisis	30 – 50%
Stage 5: 40 – 50%	Stage 3 – Water Crisis	30 – 50%
Stage 6: >50%	Stage 4 – Water Emergency	>50%

1.5 Action Plan Organization

This document will focus on those activities directly impacting the management of water supply and demand, along with the customer services that would be modified to address changing drought conditions. The tasks and duties in this Plan are organized by function rather than by department. There are a number of policies that are identified as drought conditions occur. Revisiting and updating drought policies during and after a drought are essential to continuing the benefit and effectiveness of this Plan.

1.6 Applicable Water Codes and Legal Authorities

During times of water shortage, there are actions the District may take that are not solely based upon internal policies and regulations. Several California Water Code Sections and California Codes of Regulation grant authority to or mandate that the water purveyor declare drought conditions and implement drought stages. Below are **summaries** of specific actions required during water shortage conditions; however, the official California Water Code or California Code of Regulations should be

referenced for the complete language of the section. Where not otherwise indicated, citations are to the California Water Code.

Title 23, California Code of Regulation, Section 864 – End-User Requirements in Promotion of Water Conservation – To prevent the waste and unreasonable use of water and to promote water conservation, various actions are prohibited, except where necessary to address an immediate health and safety need or to comply with a term or condition in a permit issued by a state or federal agency.

Title 23, California Code of Regulation, Section 865 – Mandatory Actions by Water Suppliers – To promote water conservation, each urban water supplier shall provide prompt notice of leaks within an end-user's control, submit monthly monitoring reports to the state, and meet a state-prescribed water conservation mandate..

Section 350 – The governing body of the water purveyor may declare a water shortage emergency condition whenever it determines that ordinary demands cannot be satisfied without depleting supplies to the extent that there would be insufficient water for human consumption, sanitation, and fire protection.

Section 351 – The declaration shall be made only after a public hearing is held, at which consumers have an opportunity to protest and to present their respective needs to the governing body. There is an exception for a breakage or failure that causes an immediate emergency.

Section 352 – At least seven days prior to the date of the public hearing, a notice of the time and place of the hearing shall be published in a newspaper that is distributed within the water purveyor's service area.

Section 353 – When the governing body has declared a water shortage emergency condition within its service area, it shall adopt regulations and restrictions on the delivery and consumption of water supplied for public use in order to conserve water supply for the greatest public benefit, with particular regard to domestic use, sanitation, and fire protection.

Section 354 – After allocating the amount of water, which in the opinion of the governing body will be necessary to supply domestic use, sanitation, and fire protection, the regulations may establish priorities in the use of water for other purposes – without discrimination between consumers using water for the same purpose.

Section 355 – These regulations and restrictions shall remain in effect during the water shortage emergency condition, and until the water supply has been replenished or augmented.

Section 356 – These regulations and restrictions may prohibit new or additional service connections, and authorize discontinuing service to consumers willfully in violation of a regulation or restriction.

Section 357 – These regulations and restrictions prevail over any conflicting laws governing water allocations while the water shortage emergency condition is in effect.

Section 22257 – An irrigation district may impose equitable rules and regulations, including controls on the distribution and use of water, as conditions of ongoing service to its customers.

1.7 Evaluation and Improvement Procedures

This Drought Action Plan is an adaptive plan that allows for active refinement in response to particular shortage conditions. The general procedures for refinement are presented below.

1. For each shortage response action, compare expected results with actual shortage response and identify any shortfall or over-achievement.
2. Revise expected reduction for a specific shortage response action based on updated information.
3. Assess the aggregate expected reductions (from revised shortage response actions) for each shortage stage.
4. Revise stage declaration or modify stage shortage response actions to better balance demands with supplies.

The procedures presented above aim to ensure an adaptive Drought Action Plan is maintained that can be relied upon under various and changing circumstances.

1.8 Drought and Water Management Tools

There are resources available to aid water purveyors and individuals before, during, and after a drought. Below is a brief description of a few of these tools.

- **California Urban Drought Guidebook** – a publication providing help to water managers facing water shortages by showing them how to use tried-and-true methods of the past, such as demand management, conservation analysis, and fiscal considerations; as well as new methods and technology such as ET controllers and cooling system efficiencies. Download the Urban Drought Guidebook, 2008 Updated Edition at: https://cawaterlibrary.net/document/urban-drought-guidebook-2008-updated-edition/

- **DWR Office of Water Use Efficiency** – makes available technical expertise, manages the CIMIS weather station network, carries out demonstration projects and data analysis to increase efficiency where possible, and provides loans and grants to achieve efficiency in water and energy. This information can be found at https://water.ca.gov/Programs/Water-Use-And-Efficiency/Urban-Water-Use-Efficiency

- **DWR Drought Conditions** – a webpage providing State and regional updates with regards to water conditions. More information can be found at https://water.ca.gov/Current-Conditions

- **U.S. Bureau of Reclamation Drought Response Program** – aids federal water contractors and other interested parties in a wider view of drought conditions, encompassing the western United States. Staff from this program will also provide technical assistance, grant and loan funding, and expertise in drought planning. Information on this Bureau program can be found at https://www.usbr.gov/drought/

- **SWRCB Drought Information and Updates** – provides the latest information and updates on drought conditions in California, actions by SWRCB, and resources for conservation strategies and funding opportunities. More information can be found at https://www.waterboards.ca.gov/waterrights/water_issues/programs/drought/

2.0 Coordination and Guidelines

EID's drought response should be managed by participants in the District's Drought Response Team (DRT), which should include department heads and/or their appointed representative and the General Manager. The DRT may coordinate with other agencies in the county and region through other organized Drought Committees. Responding to a drought in El Dorado County should include a number of tactics and agencies, and a multi-level management team with function-specific responsibilities is an important planning device for collaborative and comprehensive drought event management.

2.1 Drought Response Team

The 2008 Drought Preparedness Plan emphasized the importance of a DRT for inter-department drought management. Initially, the DRT should be made up of staff representing the following functions.

- Engineering and Operations
- Finance and Customer Services
- OGM/Legal
- Public Outreach
- Recreation
- Water Efficiency

This list may be narrowed down due to staff availability and specific needs, as different functions may not be necessary in all situations nor at all times.

2.2 Role and Responsibilities

The DRT will be responsible for monitoring the activities of the District with regard to general drought management, including issues of timing, policy, public relations, financial solvency, customer education, facility operations, environmental considerations, and public health. The EID Board of Directors should be updated by the General Manager and/or staff at regular and special board meetings. During cases of extreme drought, updates may occur more often by e-mail or by phone, consistent with the requirements of the Ralph M. Brown Open Meetings Act.

The DRT should meet periodically during normal water supply conditions to discuss updates and other important ongoing considerations. The group would meet more often as drought events occur and worsen, perhaps once per week or even once per day in extreme cases. A DRT meeting may be requested by any member, but should be facilitated and convened jointly by the Customer Services and Water Operations Managers or as designated by the General Manager.

Another important component of the DRT function during the early stages of drought is to make preparations for subsequent stages, including an examination of staff levels, financial resources, water waste enforcement staff resources, and areas of collaboration among other agencies in the region. It is also important for the DRT to recognize that some of the activities recommended by this Plan may not be possible at current staffing levels and with current financial resources.

2.3 Drought Monitoring and Modeling

While County-wide strategies and mechanisms can be discussed in regional, multi-agency drought committees, monitoring of individual water supplies and drought conditions are the responsibility of each water purveyor. Within EID, drought monitoring will be the combined task of engineering and operations. It is important that staff use the sources of information and drought tools available to them to ensure adequate monitoring. Because drought is the leading hazard of economic loss in the United States each year, monitoring regional and long-term trends within the United States will enable EID to be better prepared for drought. Local drought conditions can change very quickly, but if staff frequently monitors the climatic conditions that cause hydrologic drought, EID will be better equipped to manage District-wide concerns.

2.4 Annual Water Supply and Demand Assessment Procedures

Beginning July 1, 2022, EID is required to prepare an annual water supply and demand assessment and submit an Annual Water Shortage Assessment Report to DWR. The Annual Water Shortage Assessment Report will be due by July 1 of every year, as required by Water Code Section 10632.1. Procedures for EID's annual Water Supply and Demand Assessment are presented below. This assessment is conducted annually to help inform water resources management decisions for the current year. The analysis incorporates numerous data sources used as evaluation criteria to forecast water reliability (water supply vs. demand) for the current year and one subsequent dry year. Data sources and operational factors to consider in preparing the assessment include:

- Projected weather conditions
    - Northern Sierra 8-Station Precipitation Index compared to historical
    - Snow Water Content data – Central Region compared to historical
    - Bulletin 120 Projections for Water Year Type
    - Snow surveys - Caples Lake, Silver Lake and Carson Pass, others
    - NOAA Precipitation Outlooks
    - Seasonal Drought Outlook (Drought Monitor)
- Projected Unconstrained Customer Demand
    - Historical Water Diversion Reports
    - Historical Water Consumption Reports
    - Urban Water Management Plan demand forecasts
    - New customer connections
    - Recycled Water Demand

  Projected Supply Availability
    - Project 184 Reservoir Storage (Aloha, Echo, Caples and Silver Lake Levels)
    - Project 184 pre-1914 water rights
    - Jenkinson Lake Storage
    - Folsom Lake Levels and USBR CVP allocations
    - Water Right Permit 21112
    - Ditch/Weber Reservoir water rights
    - Recycled Water production
- Regulatory Conditions
    - FERC license conditions for in-stream flows and target lake levels
    - Water right conditions for lake levels and minimum releases
    - State-mandated conservation or curtailment orders
- Infrastructure Constraints
    - El Dorado Canal planned maintenance schedule

- Planned or unplanned major water infrastructure upgrades and repairs that constrain normal capacity
- Others as identified

The general procedure for preparing the annual Water Supply and Demand Assessment is listed below. EID may modify this process based on available data, significant events, operational restrictions, or other external factors that may impact the assessment. The following procedures will be undertaken beginning each winter season and continue through late spring until the current year water supply conditions are known. The final product will result in a written water supply assessment per the requirements of Water Code Section 10632.1 to be submitted by July 1 of each year.

1. Compile existing weather data to characterize current year water supply conditions. District staff typically will provide regular Board informational updates on developing water supply conditions during the winter and spring months as needed, and discuss any potential water supply reliability concerns.
2. Estimate current year and subsequent dry year unconstrained demands based on representative customer use data. Sources to estimate demands primarily include annual water diversion and consumption reports. Dry year demand projections developed in the Urban Water Management Plan updates may also be used. Development of unconstrained demand should incorporate any additional demand considerations resulting from new customer connections or unique demand trends.
3. Determine current year available supply for each primary supply region (Jenkinson Lake, Project 184 - Forebay, and Folsom Lake). Estimate subsequent dry year water supply for each supply region. The UWMP data may be used to estimate the subsequent dry year water supply availability for each source.
4. Identify and incorporate any applicable constraints (infrastructure, regulatory, etc.) regarding accessibility of supply in the current year and subsequent year.
5. Compare water supply availability to demand for the current year and one subsequent dry year, which will summarize the results of the annual water supply assessment. Consider if any current year supply targets and operational modifications are appropriate to prepare for a subsequent dry year. For example, consideration may be given in the current year to maximize utilization of available Project 184 supplies to supplement and/or reduce the demand from Jenkinson Lake in order to preserve Jenkinson Lake storage in the event of a subsequent dry year. Identify any projected current year supply shortfall to meet the unconstrained demand, cross referencing the condition to one of the water shortage levels identified in this Plan. If current year supply will meet demand, but the projections for the subsequent dry year show a supply reliability concern, consider whether it is appropriate to take any operational actions, water resource management strategies, or demand management measures in the current year to prepare in the event of a subsequent dry year.
6. Prepare the annual Water Supply and Demand Assessment pursuant to subdivision (a) of Section 10632. Assessment will include information as applicable on any anticipated shortage, triggered shortage response actions, compliance and enforcement actions, and communication actions, consistent with the Drought Action Plan (Water Shortage Contingency Plan).
7. Present the annual Water Supply and Demand Assessment to the Board of Directors for approval as necessary and appropriately trigger any recommendations for specific shortage response actions resulting from the assessment. Staff may modify/update the assessment per direction from the Board.

8. The general proposed annual timeline for the assessment is as follows:
    - Monitor conditions and prepare assessment: January-May
    - Present assessment to Board: May/June
    - Submit annually to DWR per CWC Section 10632.1: July 1

2.5 Interagency Coordination

A County-wide Drought Coordination Committee (DCC) may be formed to include regional partners and water purveyors. The team would meet monthly during a drought to discuss the issues of water supply and demand, conjunctive use, and environmental needs. EID staff should attend these coordination meetings, as designated by the General Manager.

MONITORING – Communication among agencies of their drought indicator status would allow each agency to understand the current conditions of the other water purveyors.

PUBLIC OUTREACH – Development of drought education tools, plus collaboration on public education and outreach, provides efficiency and consistency within the region.

RESOURCE SHARING – Collaboration resources, including: staff, grant funding, monitoring tools, infrastructure, water, and educational outreach tools would allow agencies to support each other efforts in the community.

2.6 Drought Guidelines and Definitions

There are a number of circumstances during a drought in which the District would be required to make and implement decisions that are not solely based upon water supply availability, such as how long to stay in a drought stage, and how demand reductions should be quantified. The new annual assessment procedure will define the base unconstrained demand for which a proxy demand for each user category can be developed and compared against actual conservation performance.

Overall Guidelines

Below is a list of drought guidelines developed to assist staff in managing the drought event.

1) The District will strive to stay within each stage of drought for at least 2 months for consistency in messaging and effective public outreach.
2) Drought stage demand reductions will be quantified by output at the water treatment plants during all stages; however, in Stages 3 and 4 meter reads may also be necessary to determine compliance with individual allocations and reduction targets.
3) This Drought Action Plan should be reviewed and updated every 5 years (or as needed) due to changes in water supplies, operations, expected water demands or other relevant factors.

Early Actions

1.1.1 CROSS TRAINING – It is important that ongoing staff training be conducted before a drought occurs, as staffing may be necessary for the enforcement of water waste prohibition, enforcement of mandatory or prohibited conservation measures, and answering questions

related to recycled water use. Staff ordinarily responsible for other duties may be temporarily reassigned to implement these drought-response activities.

1.1.2 BOARD UPDATES – The Board should be kept apprised of all drought monitoring and predicted water shortages. It is the responsibility of the General Manager to decide the best method for these updates.

1.1.3 PUBLIC OUTREACH TO ID 97 OWNERS – Pursuant to paragraph 10 of the Interim Agreement to Amend the Terms and Conditions of El Dorado Irrigation District Improvement District No. 97, the District will reduce aesthetic flows in Clear Creek from Jenkinson Lake during declared water shortages. The district will provide 30 days written notice to all ID 97 property owners.

- Background. The *4-Stage Water Supply Matrix and Water Shortage Response Measures* – a copy of which can be found in Appendix D of the 2008 Drought Preparedness Plan – was in effect when the ID 97 Interim Agreement was adopted by the Board of Directors in 2005. Pursuant to this agreement, the flow rate in Clear Creek is reduced as the drought stages progress, from a maximum of 3 cubic-feet per second (cfs) down to a minimum of 1 cfs. When drought is imminent, notifications are to be sent to the ID 97 property owners that Clear Creek flows may be reduced with the drought stages.

2.7 Enforcement and Appeals

Water conservation enforcement measures for all stages, including Normal Water Supply, are outlined in AR 1041.5 (Penalties for Violation of the District's Water Waste Regulation) and AR 5011. AR 5011.1 states, "a prohibition of water waste will be in effect during both normal and restricted water supply conditions." The sequence of notification, discontinuance of service, and progressive reconnect fees are outlined in AR 1041.5.

3.0 Ongoing Activities

This Drought Action Plan addresses water management and customer service activities that would be modified during drought conditions. In this section, ***Ongoing Actions*** are defined as activities that are performed on a regular basis, even in non-drought conditions, that might change in the face of a drought being declared. Throughout the District, there are a number of ongoing activities related to drought management. It will be the responsibility of the DRT members to ensure that these activities continue to occur in their respective areas during non-drought conditions, in order to be ready for a declaration of drought. The following sub-sections refer to staff functions rather than departments, and include a brief description of these functions and their ongoing actions as they pertain to a drought.

3.1 Engineering and Operations

The primary responsibility of engineering and operations staff is to ensure the continued integrity of infrastructure throughout the District's service area, in addition to actively monitoring and modeling potential drought conditions. Operations staff must also stay abreast of changes during drought conditions, such as lower pressures, increased sewer pipeline blockages, lower reservoir levels, changes in demand patterns, and other potential impacts. The environmental staff contributions to the District's drought preparedness occur mostly prior to a drought event while conducting environmental reviews and permit preparation for proposed projects, but may also include outreach to recycled water customers during the course of their work relating to recycled water compliance.

Ongoing Actions

1) Manage water supplies and conservation levels to achieve approximately 25,000 acre-feet of carry-over storage in Jenkinson Lake to guard against multiple year drought conditions including importing Project 184 supplies through the Hazel Creek tunnel.
2) Track regional weather predictions and monitor reservoir levels in conjunction with the dashboard drought risk assessment.
3) Gather information on drought management from other agencies.
4) Incorporate the results of various drought supply analyses and modeling when analyzing the environmental effects of proposed projects.
5) Enforce the water waste prohibition regulation – *with legal, water efficiency, and customer services*.
6) Examine the District's infrastructure for leakage, and reduce losses where cost-effective.
7) Assist community members whose wells have gone dry due to drought conditions, to access drinking water through bulk water stations and key cards – *with public outreach*.
8) Investigate all dry-year water supply options such as water transfers, conjunctive use, and groundwater banking – *with legal*.
9) Develop drought impact avoidance projects, if needed.
10) Investigate potential reservoir re-operation, and consider long-term adjustments to reservoir release rules.
11) Consider the environmental effects of long-term draw-down of reservoirs, such as air quality, soil/sedimentation, water quality, temperature, and other conditions that may affect the District's ability to provide treated water.
12) Work with the El Dorado Water Agency to facilitate additional water supply projects, if needed.

13) Collaborate with regional water management groups, including but not limited to the Regional Water Authority (RWA), Mountain Counties Water Resources Association (MCWRA), and the Cosumnes, American, Bear, and Yuba Rivers group (CABY).

14) Maintain interagency coordination, primarily through a DCC, but also through participation in federal, state, and/or regional drought task forces.

3.2 Finance and Customer Services

The primary responsibility of finance staff is to keep the District solvent when faced with the increased costs and potential for reduced revenues associated with a drought condition in the watershed and enforcement of excessive residential water use as described in the District's Water Waste Prohibition. Along with other District employees, staff must be able to look into the future to assess possible staffing needs and potential sources of cost to the District. On the other side, finance staff must also be able to identify possible sources of income, or at the very least, a method of financing the additional efforts associated with managing drought.

Ongoing Actions

1) Enforce the water waste prohibition regulation – *with legal, operations, and water efficiency.*

2) Educate customers on how to read their water meters in order to determine their own monthly usage during times of demand restrictions – *with public outreach.*

3) Provide prompt notice to a customer whenever the District obtains information that indicates that a leak may exist within the end-user's exclusive control.

3.3 Legal

The primary responsibility of administration and legal staff is to ensure that EID's actions are legal and defensible. It is important that the administration and legal staff be apprised of policy and planning activities with regard to water supply, regional activities, and inter-agency planning.

Ongoing Actions

1) Ensure the District follows applicable state law when declaring drought conditions, and include citations to pertinent legal authority in drought-related Board actions.

2) Continue to enforce the water waste prohibition regulation – *with water efficiency, operations, and customer services.*

3) Examine possible legal implications of dry reservoirs and canals during drought conditions, and associated liability at recreational lakes – *with recreation and property.*

4) Examine the District's Board Policies and Administrative Regulations for potential changes and/or additions for better drought management.

5) Track legislation and regulation relating to drought, especially as they pertain to curtailing water rights, prescribing or prohibiting actions by water suppliers, financing drought management, water transfers, and ground-water banking.

6) Urge county and city planners to consider the drought stages when implementing development and future planning scenarios.

7) Collaborate with regional water management groups, such as RWA, MCWRA, and CABY - *with engineering and operations.*

3.4 Public Outreach

The efforts of public outreach staff are integral to the implementation a successful Plan and management of a drought event. Public education is the most important activity when a drought occurs, because demand management will not be successful if customers are not adequately informed regarding the water situation and the requirements of the purveyor. The most important time for public outreach and education is at the beginning of Stage 1.

Ongoing Actions

1) Educate customers regarding water saving devices and practices – *with water efficiency*.
2) Educate customers regarding the overall challenges of providing a reliable water supply in a semi-arid climate.
3) Educate customers regarding drought stages through bill inserts or a printed message on the bill, an article in the bi-monthly newsletter, e-mail messages, social media, drought website, automated telephone messages, direct mail post cards, government and community organization meetings, newspaper advertisements, and other means – *with water efficiency*.
4) Develop a webpage for "Drought Stage" information, including an easy-to-understand explanation of when a drought is called and when a drought has ended – *with water efficiency*.
5) Educate customers on how to read their water meters in order to determine their own monthly usage during times of demand restrictions – *with finance and customer services*.
6) Work with the DCC to educate community members, whose wells have gone dry due to drought conditions, about the availability of drinking water through bulk water stations with key card access – *with customer services*.
7) Collaborate with the Regional Water Authority, ACWA, Mountain Counties and other regional groups to ensure consistent messaging.

3.5 Recreation

The challenges and responsibilities of recreation and property staff in the face of a drought are quite different from those of other EID functions. The primary concerns with recreation and property are the liabilities associated with water attractions in low water level conditions. These can vary from exposed rocks in reservoirs to increased danger of fires resulting from recreational use in campgrounds and day use areas.

Ongoing Actions

1) Consider alternative recreational strategies/opportunities for dry years.
2) Identify sensitive areas and outline management plans for these areas in dry years.
3) Examine possible legal implications of dry reservoirs and canals during drought conditions, and associated liability at recreational lakes – *with legal*.
4) Ensure adequate protection against catastrophic fires through vegetation management and homeowner education (adjacent to District facilities).
5) Inform customers of the mooring facility policy during drought, and any curtailments of water supplies at recreational facilities.
6) Work with regional partners to identify areas of greatest fire risk.

3.6 Water Efficiency

Water efficiency staff should work closely with public outreach staff, as the activities required to meet water supply constraints are usually through the implementation of water efficiency practices or devices. Because there are ongoing mandated activities, a drought event will increase the number of tasks for which water efficiency staff are responsible. The Drought Preparedness Plan stipulated a number of water conservation actions, some of which are activities *required* of customers, such as not filling swimming pools; while some are simply *guidelines* for customers to help them save water.

Agricultural demands are an important consideration during drought events. The District's Irrigation Management Service (IMS) program is not required for agricultural customers, but staff should encourage participation in the IMS program prior to a drought, including the education of landowners with regard to individual drought planning. A total of 2,000 acre-feet of water is estimated to be saved each year by the IMS program, as verified by the State Water Resources Control Board in 1986.[1]

Ongoing Actions

1) Identify and pursue drought assistance grants available for water efficiency programs.
2) Enforce the water waste prohibition regulation – *with legal, operations, and customer services*.
3) Offer water efficiency rebate programs and complimentary water surveys as staff, budget, and grant funding allows.
4) Continue to implement the California Urban Water Conservation Council's Best Management Practices, as applicable and as required by the U. S. Bureau of Reclamation.
5) Maintain the IMS program for commercial agriculture customers.
6) Educate customers regarding drought stages through bill inserts or a printed message on the bill, an article in the bi-monthly newsletter, e-mail messages, and newspaper advertisements – *with public outreach*.
7) Develop a webpage for "Drought Stage" information, including an easy-to-understand explanation of when a drought is called and when a drought has ended – *with public outreach*.

[1] Source: EID's Water Supply Master Plan, Administrative Draft, December 2001, Pages 3-36 and 3-38. As part of the South Fork American River (SOFAR) water rights permitting process, the 2,000 acre-feet of IMS program water savings was verified in 1986 by the SWRCB; and later acknowledged in an SWRCB letter dated January 1989.

4.0 Stage 1 – Water Alert

A drought Stage 1 is considered a water alert, where water supplies are only slightly restricted. The response actions are intended to initiate public awareness of a possible water shortage in the near future, and to encourage water efficiency practices. Stage 1 actions target up to a **15 percent demand reduction** through the implementation of voluntary measures. The following ***New Actions*** outlined in this section are activities that must be performed during this stage of a drought declaration.

At the beginning of a dry period there is no certainty as to whether the conditions will persist into a more significant drought. Accordingly, the initial phase of conservation is voluntary on the part of the customer, and the use of recycled water continues as normal. Staff should implement an outreach program to educate customers regarding the status of District water supplies, and the predicted water shortage; however, the education should be done without alarming customers as there is not yet a true emergency. This outreach can be complemented by the actions of the Department of Water Resources and RWA. To avoid confusion though, it is important to educate our customers that due to the District's multiple water sources and integrated infrastructure, the rest of the region and the state might be worse off than the District. Raising public awareness therefore represents one of the most important components of this Plan.

4.1 Engineering and Operations

New Actions

1) Monitor reservoir levels on a monthly basis.
2) Manage water supplies and conservation levels to achieve approximately 25,000 acre-feet of carry-over storage in Jenkinson Lake to guard against multiple year drought conditions including importing Project 184 supplies through the Hazel Creek tunnel.
3) Alert ditch customers of potential cutbacks, reminding them of Item No. A-8 of their ditch application for service, and reduce potable water releases from valve blow-offs, if possible – *with customer services*.
4) Alert the Improvement District No. 97 property owners listed on the current County assessment roll of the water alert declaration, reminding them of paragraph 10 of the 2005 Interim Agreement for ID 97 and possible accommodations to decrease the releases to Clear Creek should the drought conditions continue – *with legal*.
5) Monitor water demands weekly at the water treatment plants to assess the amount of water savings accomplished and forecast end-of-year carryover storage needs.
6) Identify areas of low pressure, both present and projected, and communicate this to local fire protection agencies.
7) Increase monitoring for water theft.
8) Refer to the draft ditch operations guidelines in Appendix E of the Drought Preparedness Plan for further information on ditch management during a drought.
9) Alert regulatory agencies to the possibility of decreased stream flow.
10) Examine Deer Creek discharge requirements; and assess the need to work with stakeholders and the State Water Resources Control Board to temporarily reduce flows to conserve potable water – *with legal*.

4.2 Finance and Customer Services

New Actions

1) Implement a project code or charge number for use by all employees to track time and expenses for all drought-related activities.
2) Alert ditch customers of potential cutbacks and remind them of Item No. A-8 of their ditch application for service – *with engineering and operations*.
3) Identify target levels of water usage per user class – *with water efficiency*.
4) Request assistance in programming and obtaining database information appropriate to the drought stage, customer requests, and cutback priorities.
5) Provide prompt notice to a customer whenever the District obtains information that indicates that a leak may exist within the end-user's exclusive control.

4.3 Legal

New Actions

1) When determined appropriate by the DRT, prepare materials for the declaration of a water alert for approval by the Board of Directors, consistent with applicable state law – *with engineering and operations*.
2) Alert the Improvement District No. 97 property owners listed on the current County assessment roll of the water alert declaration, reminding them of paragraph 10 of the 2005 Interim Agreement for ID 97 and possible accommodations to decrease the releases to Clear Creek should the drought conditions continue – *with engineering and operations*.
3) Track legislation and regulation relating to drought, especially as they pertain to curtailing water rights, prescribing or prohibiting actions by water suppliers, the management of water transfers/ground-water banking, and financing drought management.

4.4 Public Outreach

New Actions

1) Create educational information regarding the stage of drought, what is expected from customers, and the consequences if demand reduction goals are not met.
2) Ensure that customers are aware that drought conditions may worsen quickly, causing rapid progression through the drought stages.
3) Educate recycled water users and community leaders regarding the importance of conserving recycled water and the consequences of reducing or suspending potable water supplementation during a Stage 2 drought.
4) Ensure that the public is aware of the water waste regulation and all associated penalties – *with water efficiency*.
5) Work with local and regional newspapers to secure op-ed space as-needed for public information and water supply/drought education.
6) Maintain drought information on website, and update throughout the drought.
7) Strongly encourage local restaurants to post "serve if requested" messages via poster, table tent signage, in menus, or other means in their establishment – *with water efficiency*.

4.5 Recreation and Property

New Actions

1) Implement new mooring facility policy when warranted by low lake levels.

4.6 Water Efficiency

New Actions

1) Investigate water waste reports, and enforce Administrative Regulation (AR) 1041, Water Waste Prohibition, as currently amended and incorporated by reference.
2) Increase educational efforts regarding water efficiency practices – *with public outreach*.
3) Identify target levels of water usage per user class – *with customer services*.
4) Strongly encourage local restaurants to post "serve if requested" messages via poster, table tent signage, in menus, or other means in their establishment – *with public outreach*.
5) Voluntary: Request customer compliance with these water saving guidelines.
    a) Apply irrigation water during evening and early morning hours only (7 PM to 10 AM);
    b) Inspect irrigation system for leaks and then repair or replace;
    c) Adjust sprinkler run times to avoid runoff; and
    d) Avoid pursuing construction of new swimming pools or rehabilitation that would require filling with potable water.

5.0 Stage 2 – Water Warning

Drought Stage 2 action items are intended to increase public understanding of worsening water supply conditions, encourage community-oriented voluntary conservation measures, enforce some conservation measures and implement mandatory water use reduction measures to **decrease "normal" demand by up to 30 percent**. Stage 2 activities include a continuation of activities described under Stage 1 and new actions. The achievement of the water use reduction goal is measured by overall performance of the entire customer population, based on EID production meters at the three main potable water treatment plants. It is important to note that user category demand reduction goals are not by individual customer, but are the goal for the customer category.

At the point of calling a Stage 2 Drought, customers are asked to contribute to a system-wide demand reduction of up to 30 percent. The major emphasis by public outreach and customer service is to elevate customer awareness of the supply situation and encourage continued savings to achieve the 30 percent demand reduction goal.

5.1 Engineering and Operations

New Actions

1) Assess the need for a temporary change in the point of diversion for water taken from Folsom Reservoir to further upstream on the South Fork of the American River, possibly to supplement Sly Park's Jenkinson Lake through the Hazel Creek Tunnel – *with legal*.
2) Examine the risk of solids loading, line blocks, water-quality exceedances, and other low-flow hazards, and then take appropriate action.
3) Provide 30-days written notice to all Improvement District No. 97 property owners listed on the current County assessment roll, notifying them of the water warning declaration and the planned decrease of releases into Clear Creek; and take to the Board for approval or ratification at the first available regular Board meeting – *with legal*.
    a) After the 30-day notification period, decrease releases into Clear Creek to no more than 2.0 cfs.
4) Begin examination of source water quality for increasingly concentrated pollutants and higher temperatures.
5) Refrain from releasing water from valve blow-offs unless necessary to maintain compliance with water quality regulatory standards.
6) Review all regulatory requirements relating to water quality and stream flow; and investigate how the District might be affected by these regulations in case of extreme drought.
7) Monitor source and system water quality for increasingly concentrated pollutants and contaminants as a result of drought conditions. Take necessary operational actions to remain in compliance with the Safe Drinking Water Act.
8) Consider reducing or suspending potable supplementation to the recycled water system.

5.2 Finance and Customer Services

New Actions

1) Continue actions listed in Stage 1.

2) Assess the fiscal consequences and present need for a larger drought management staff, particularly of temporary workers.
3) Consider adding customer service representatives to help with answering phones, assisting in customer questions regarding drought restrictions, and possibly extending hours later into the evening.
4) Provide prompt notice to a customer whenever the District obtains information that indicates that a leak may exist within the end-user's exclusive control.

5.3 Legal

New Actions

1) When determined appropriate by the DRT, prepare materials for the declaration of a water warning for approval by the Board of Directors, consistent with applicable state law – *with engineering and operations*.
2) Assess the need for a temporary change in the point of diversion for water taken from Folsom Reservoir to further upstream on the South Fork of the American River, possibly to supplement Sly Park's Jenkinson Lake through the Hazel Creek Tunnel – *with engineering and operations*.
3) Provide 30 days written notice to all Improvement District No. 97 property owners listed on the current County assessment roll, notifying them of the water warning declaration and the planned decrease of releases into Clear Creek; and take to the Board for approval or ratification at the first available regular Board meeting – *with engineering and operations*.
4) Review options for Area-of-Origin water rights and exceptions to water-right curtailments.
5) Seek public health and safety adjustments to U. S. Bureau of Reclamation contract shortage criteria, if needed.

5.4 Public Outreach

New Actions

1) Send regular notification postcards to all customers, and email messages to those customers providing email addresses, informing them of mandatory watering restrictions and other conservation requirements in effect.
2) Launch a monthly automated telephone message informing customers of mandatory watering restrictions and other conservation requirements in effect.
3) Work with regional partners to spread the word about drought and fire danger.
4) Secure an op-ed space in local and regional newspapers for an essay on water supply and use restriction in El Dorado County.
5) Continue to update the Drought Stage website link, including weekly updates on community demand response.
6) Assist the City of Placerville with water use reduction targets – *with water efficiency*.

5.5 Recreation and Property

New Actions

1) Urge caution and educate visitors within the District's recreational areas due to elevated fire danger.

5.6 Water Efficiency

New Actions

1) Coordinate with the Sacramento region through RWA membership, especially water purveyors with a common border, in order to coordinate educational efforts to better reach customers.
2) Identify the top 10 percent of residential and CII[2] users, and target these customers with water efficiency outreach – *with customer services*.
3) Voluntary: Ask customers to refrain from: - *with public outreach*.
    a) Planting new or replacement turf.
    b) Pursuing new agricultural plantings.
    c) Pursuing construction of new swimming pools or rehabilitation that would require filling with potable water.
4) Offer assistance to the City of Placerville to help meet their water use reduction targets - *with engineering and operations*.
5) Mandatory: Watering restrictions are in place as shown below. All outside irrigation, potable and recycled—including garden, lawn, landscape, pasture, parks, golf courses, school grounds, and public grounds—shall ONLY occur according to the following schedule:
    a) Outdoor irrigation is limited to the hours of 7:00 PM to 10:00 AM.
    b) Watering days are based on street addresses.
    c) Once-a-week watering is allowed from November 16 to April 15 on Sundays for customers with addresses ending in even numbers (0, 2, 4, 6, 8) and on Saturdays for customers with addresses ending in odd numbers (1, 3, 5, 7, 9).
    d) Twice-a-week watering is allowed from April 16 to May 31 and October 1 to November 15 on Wednesdays and Sundays for customers with addresses ending in even numbers and Tuesdays and Saturdays for customers with addresses ending in odd numbers.
    e) Three days per week watering is allowed from June 1 to September 30 on Wednesdays, Fridays and Sundays for customers with addresses ending in even numbers; and Tuesdays, Thursdays and Saturdays for customers with addresses ending in odd numbers.
    f) Exemptions to watering restrictions are allowed for non-residential customers if a detailed conservation plan is submitted to the District that demonstrates a minimum 30 percent water savings over customer's baseline usage.
6) Mandatory: Outside irrigation for newly constructed homes and buildings is prohibited unless watered using drip or microspray systems.

[2] CII is defined as all commercial, industrial, and institutional customers; which includes businesses, schools, community service districts, owner associations, churches, and public buildings and grounds.

7) Mandatory: Agricultural metered irrigation customers who do not participate in the Irrigation Management Services program must submit a detailed conservation plan to the District that demonstrates minimum 30% water savings over customer's baseline usage.

8) Mandatory: Do not serve drinking water other than upon request in eating or drinking establishments, including but not limited to restaurants, hotels, cafes, cafeterias, bars, or other public places where food or drink are served and/or purchased.

9) Mandatory: Operators of hotels and motels shall provide guests with the option of choosing not to have towels and linens laundered daily. The hotel or motel shall prominently display notice of this option in each bathroom using clear and easily understood language.

10) Mandatory: Filling or re-filling ponds, lakes, and other non-irrigation water features with District-supplied potable water is prohibited.

6.0 Stage 3 – Water Crisis

The objective of Drought Stage 3 actions are to **reduce District-wide water demand by up to 50 percent** through effective and consistent public outreach, enforce extensive restrictions of water use, and implement water rationing. Protection of water supply for public health and safety purposes is the primary objective during Stage 3 drought conditions. This stage of drought will require much more staff time for policy enforcement with the public, and much greater inter-agency coordination. Because of the mandatory restrictions, emergency management agency notification is required, and public outreach and education will be key in achieving the water savings goal in Stage 3.

6.1 Engineering and Operations

New Actions

1) If needed, implement a temporary change in the point of diversion for water taken from Folsom Reservoir to further upstream on the South Fork of the American River, possibly to supplement Sly Park's Jenkinson Lake through the Hazel Creek Tunnel – *with legal*.
2) As needed, implement and monitor emergency water distribution.
3) EID's General Manager is responsible for notifying the El Dorado County Emergency Management Agency (EMA) of any mandatory requirements for water use reduction.
    a) Staff should consider the escalation of emergency management at the beginning of this stage.
4) Contact the County's EMA regarding fire protection directives that are being implemented within the county.
5) Provide 30-days written notice to all Improvement District No. 97 property owners listed on the current County assessment roll, notifying them of the water crisis declaration, and of the planned decrease of releases into Clear Creek; and take to the Board for approval or ratification at the first available regular Board meeting – *with legal*.
    a) After the 30-day notification period, decrease releases into Clear Creek to no more than 1.5 cfs.
6) Prohibited: Use of EID potable water for construction use.

6.2 Finance and Customer Services

New Actions

1) Continue actions listed in Stage 2.

6.3 Legal

New Actions

1) When determined appropriate by the DRT, prepare materials for the declaration of a water crisis for approval by the Board of Directors, consistent with applicable state law – *with engineering and operations*.
2) If needed, implement a temporary change in the point of diversion for water taken from Folsom Reservoir to further upstream on the South Fork of the American River, possibly to

supplement Sly Park's Jenkinson Lake through the Hazel Creek Tunnel – *with engineering and operations.*

3) Provide 30-days written notice to all Improvement District No. 97 property owners listed on the current County assessment roll, notifying them of the water crisis declaration, and of the planned decrease of releases into Clear Creek; and take to the Board for approval or ratification at the first available regular Board meeting – *with engineering and operations.*

6.4 Public Outreach

New Actions

1) Secure an op-ed and/or advertising space in local and regional newspapers to publicize mandatory water restrictions within the service area of the District.

6.5 Recreation and Property

New Actions

1) Remain alert to fire danger and water pressure considerations at outlying facilities; coordinate with other agencies to ensure a consistent public message.
2) Protect identified sensitive areas from overuse in extreme dry periods.
3) Limit or restrict filming within the District's recreational areas due to severe fire danger.

6.6 Water Efficiency

New Actions

In addition to Stage 2 actions, inform customers of these **mandatory** conservation measures in Stage 3 – *with public outreach.*

1) Prohibited: Filling empty and/or new swimming pools with District-supplied potable water.
2) Prohibited: Washing of vehicles (automobiles, recreational vehicles, trailers, etc.) and boats with District-supplied potable water.
3) Mandatory: Watering restrictions are in place as shown below, however additional restrictions should be evaluated to achieve a higher level of conservation required in Stage 3. All outside irrigation, potable and recycled—including garden, lawn, landscape, pasture, parks, golf courses, school grounds, and public grounds—shall ONLY occur according to the following schedule:
    a. Outdoor irrigation is limited to the hours of 7:00 PM to 10:00 AM.
    b. Watering days are based on street addresses.
    c. Once-a-week watering is allowed from November 16 to April 15 on Sundays for customers with addresses ending in even numbers (0, 2, 4, 6, 8) and on Saturdays for customers with addresses ending in odd numbers (1, 3, 5, 7, 9).
    d. Twice-a-week watering is allowed from April 16 to November 15 on Wednesdays and Sundays for customers with addresses ending in even numbers and Tuesdays and Saturdays for customers with addresses ending in odd numbers.
    e. Exemptions to watering restrictions are allowed for non-residential customers if a detailed conservation plan is submitted to the District that demonstrates a minimum 50% water savings over customer's baseline usage.

4) Prohibited: Use of EID potable water for construction use.
5) Prohibited: IMS customers are not to use more water than recommended by the IMS program schedule.
6) Mandatory: Agricultural metered irrigation customers who do not participate in the Irrigation Management Services program must submit a detailed conservation plan to the District that demonstrates minimum 50 percent water savings over customer's baseline usage.
7) Prohibited: Mist systems.
8) Enforce the water waste prohibition regulation with the help of City and County law enforcement, if needed; and coordinate operational safety with HR-Safety/Security staff.

7.0 Stage 4 – Water Emergency

The objective of Drought Stage 4 actions are to **further reduce water demands in order to achieve a greater than 50 percent reduction**, which may be accomplished through effective and consistent public outreach, enforcement of extensive restrictions on water use, and the implementation of water rationing. Protection of the remaining water supply for public health and safety purposes is the District's primary objective during Stage 4 drought conditions. This stage of drought will require considerable staff time for enforcement, and much greater inter-agency coordination. Because of the mandatory restrictions, public outreach and education are key to meeting the water savings goals.

7.1 Engineering and Operations

New Actions

1) Provide 30-days written notice to all Improvement District No. 97 property owners listed on the current County assessment roll, notifying them of the water emergency declaration, and of the planned decrease of releases into Clear Creek; and take to the Board for approval or ratification at the first available regular Board meeting – *with legal.*
    a) Decrease releases into Clear Creek to no more than 1.0 cfs.

7.2 Finance and Customer Services

New Actions

1) Continue actions listed in Stage 2.

7.3 Legal

New Actions

1) Advise customer services staff on enforcement of AR 1041.5 to ensure compliance with mandatory conservation requirements.
    a) Seek relief from SWRCB as necessary to ensure adequate supply.

7.4 Public Outreach

New Actions

1) Use authorized email addresses and an automated telephone message through the mass notification system as necessary to advise customers of water use restrictions or other drought alerts.

7.5 Recreation and Property

New Actions

1) Restrict filming within the District's recreational areas due to extreme fire danger.

7.6 Water Efficiency

New Actions

1) Prohibited: Automatic sprinklers for the irrigation of existing turf, ornamental plants, garden or landscaped areas.
    a) Watering may ONLY occur by hand-held hose with shut-off nozzle or by a drip irrigation system.
2) Mandatory: Single-family and multi-family residential meters are limited to 50 gallons per person per day **allotment** per bimonthly billing cycle for "health and safety" purposes
    a) Allotments can be increased for special health-related issues.
3) Mandatory: Recreational Turf, non-IMS Ag, and Small Farm customers must **reduce their usage** by 65 percent, based upon their usage during the same billing cycle in the base period.
4) Mandatory: IMS agricultural customers must **reduce their usage** by 40 percent, based upon their usage during the same billing cycle in the base period. IMS customers have already restricted use through weekly soil moisture data sampling and comply with irrigation schedule.
5) Allowed: Vital healthcare and public safety uses are exempt.
6) Mandatory: Commercial, Industrial & Institutional (CII): Reduce by 65 percent.

8.0 Post-Drought Actions

8.1 The End of a Drought

Coming out of a drought can occur quickly or slowly, depending on the weather and the storage accumulated with any precipitation. It is very important to make clear to the public that one good storm will not reverse weeks or months of dry weather. The conditions that end a drought require the filling of reservoirs, which usually occurs over time. Precipitation that occurs during the deepest of droughts can potentially put the District in a less severe stage of drought. If this occurs, and the DRT determines the present situation and probable future indicate a lessening of the drought, staff may recommend reducing the drought stage to the previous stage.

In the event that the drought severity lessens, it must be made explicitly clear to the public which stage the District has moved to, why the change was made, and what the measurements are based upon. Effective public education will minimize conflicts with regard to fines for mandatory cutbacks, and for health and safety concerns. In addition, a lessening of drought severity must be communicated clearly to all staff, especially those with regular public interaction.

- There are several scenarios that would lead the District to either declare the end of a drought or announce a less severe drought stage, including but not limited to, the following three cases.

    1) **Significant rainfall and snowpack** – While it is highly unlikely for one storm to end drought conditions, it is possible that a series of storms over a several-week period could fill Jenkinson Lake and replenish snowpack that could fill the Project 184 reservoirs in the spring. This scenario would assure staff that the drought has ended, and that a return to "normal" conditions is a responsible decision.

    2) **Significant rainfall but no snow** – It is also possible that Jenkinson Lake could fill from a series of storms, but little snowpack accumulates due to warm temperatures. In this scenario, there would be little snowpack to keep Jenkinson Lake full into the summer, and the Project 184 reservoirs may not fill. In this case, the water supply is not secure for the next year, and staff may recommend a less severe drought stage rather than a return to "normal" conditions.

    3) **Average rainfall and snowpack** – Another scenario could be the occurrence of a "normal" water year, with average precipitation and snowpack, following weeks or months of drought. These conditions may not fill the reservoirs adequately to assure staff that ending a drought declaration is the appropriate action. In this case, the drought stage may be lessened or stay the same, as it is important to remember that a year of average precipitation may not immediately result in "normal" conditions.

In any case, declaring the end of a drought depends in large part upon the judgment of staff. While this Drought Action Plan serves as a blueprint for actions in each stage of drought, it is not a rigid prescription for when and how to call a drought, or what actions to take in response. Those decisions must be made by informed and experienced staff, based upon the situation at the time, and approved by the Board of Directors.

8.2 Lessons Learned

When a drought is completely over, and District operations are back to normal, it is important to review what worked, what did not work, and how the overall drought response can be improved. The first step must be an examination of the stages, objectives, and response actions. Did the ongoing and new actions in this Plan work? Was there public confusion? If so, why? Did the mandatory actions cause problems due to uncertainty in implementation or ambiguity in

description? A discussion among all DRT members and implementing staff is imperative to get a complete picture on these questions. Likewise, it may be important to repeat the same process with the County's Drought Coordination Committee, and to involve the Board and customers in the dialogue as well.

8.3 Financial Analysis

The District will analyze the financial considerations following a drought, which is an important way to gauge the success of drought management activities. A detailed financial assessment of the costs incurred during a drought are important.

- Below are two scenarios of drought finances, along with their impacts on the District.
  1) **Costs to the District** – When the drought Stage 1 was declared, a charge number should have been established for all new drought activities, including: permanent staff time, temporary worker time, special materials, and other costs associated with drought management. All costs associated with the drought must be charged to this number in order to completely account for the additional costs incurred during drought.
  2) **Revenues for the District** –Finance staff should analyze how the decreased revenue from the drought impacted District finances and reserve funds and make recommendations for financial stability in future droughts.

The District is aware of the expected decreased revenues and increased costs associated with supply shortage conditions. Approximately 50 percent of the District's revenues are derived from volumetric charges. Assuming a reduction in sales commensurate with the particular Plan stage declaration, a decrease in water rate revenues in the range of 5-15 percent (or higher) may be expected.

EID maintains financial reserves that can be utilized to buffer potential revenue impacts of reduced sales during a stage declaration, should it be prudent to do so. These reserves are a tool that can be used by the District to maintain financial stability during times of imbalanced revenues and expenses that may be caused by reduced volumetric sales during dry periods. In addition to utilizing financial reserves, the District may enact a range of financial management actions depending on the specific situation.

8.4 Report to the Board

The concluding task in any drought management effort is the final report to the Board, especially summarizing the costs and revenues described above. Because the Board reports directly to the customers served by the District, it is important for the Board members to be able to convey to their constituents the successes and lessons learned of the District's drought management efforts. This report may also be released to all District customers, as successful drought management is not possible without customer involvement, cooperation, and support.

El Dorado Irrigation District

June 16, 2021 In reply refer to: CS0621-007

NAME
ADDRESS 1
ADDRESS 2
CITY, STATE ZIP

Subject: Outingdale Water Conditions – Drought Preparation
Service Address:
Account #:

Dear Customer,

With El Dorado Irrigation District (EID) and our customers facing another exceptionally dry year, we wanted to take this opportunity to reach out to the Outingdale community in an effort to get as much information out as soon as possible.

EID has been monitoring the Middle Fork Cosumnes River flows and, similar to the last drought in 2014-2015, it is very likely that the water flow in the river will be reduced to a point where we will be physically unable to divert.

As a result, EID will be considering a Stage 4 Water Emergency declaration for the Outingdale community as soon as June 28, 2021. EID is also making preparations to truck water for health and safety purposes from its main distribution system to storage tanks that supply the Outingdale service area when needed.

Customers subject to a Stage 4 Water Emergency will be required to reduce water usage by a minimum of 50%, limiting water usage during each bimonthly billing cycle to **401 cubic feet (approximately 3,000 gallons) of water per person**. This works out to **50 gallons per person per day**, which is the California Department of Water Resources' standard for meeting minimum health and safety requirements. We ask that you take this opportunity to review your household water needs and begin to prepare for this potential water emergency.

We thank you for your efforts in reducing your water demands and will continue to keep you informed of any additional information that affects your community.

If you have any questions about this letter please contact EID customer services at 530-642-4000 or by email to billing@eid.org.

Regards,

Jenny Downey
Customer Service Manager

El Dorado Irrigation District

July 8, 2021 In reply refer to: CS0721-009

NAME
ADDRESS 1
ADDRESS 2

CITY, STATE ZIP

Subject: Updated Outingdale Water Conditions – Drought Declaration
Service Address:
Account #:

Dear Customer,

This message provides an update regarding the water supply provided to your home by the El Dorado Irrigation District (EID/District). On June 28, 2021, the EID Board of Directors (Board) declared a Stage 1 Water Alert for the District's entire service area asking for voluntary conservation of 15%. At that time the Board also authorized declaring a Stage 4 Water Emergency for the Outingdale community when conditions warrant due to lack of water availability. Since then staff has continued to closely monitor streamflows daily during these critical conditions. Based upon current streamflow conditions and a forthcoming heat wave, staff estimates that within the next week or so (and potentially sooner) EID will no longer be able to safely and reliably divert water from the receding Middle Fork Cosumnes River where your water is sourced prior to treatment. At that time, EID will be forced to move to a Stage 4 Water Emergency for the Outingdale community and commence trucking daily for the next several months. You will be notified once a Stage 4 Water Emergency must be declared.

The water brought to your community while trucking is treated within EID's contiguous water system and transported by certified treated drinking water haulers following all sanitation requirements in coordination with our state regulatory agency, State Water Resources Control Board – Division of Drinking Water. We appreciate your efforts in achieving the 50 gallons per person per day capita during a Stage 4 Water Emergency and patience while trucking operations continue.

We recognize the inconvenience associated with truck traffic, but we remain committed to meeting the health and safety needs of our customers during this historic time. If you have any questions regarding these drought conditions and staff response to protecting our community please visit www.eid.org/drought.

If you have any questions please contact EID customer services at 530-642-4000 or by email to billing@eid.org.

Regards,

Jenny Downey
Customer Service Manager

July 26, 2021 In reply refer to: CS0721-013

«CONTACTNAME»
«ADDR1»
«ADDR2»
«CITY», «STATE» «ZIP»

Subject: Stage 4 Water Emergency Drought Declaration for Outingdale
Service Address: «SERVICEADDRESS»
Account #: «ACCTNO»

Dear Customer,

As you are aware El Dorado Irrigation District (EID/District) staff has been closely monitoring streamflow's in the Middle Fork Cosumnes River, which supplies drinking water supplies to the Outingdale community, to ensure there is sufficient streamflow to divert water from the river.

Conditions have now reached the point the District is no longer able to safely and reliably divert water from the river. Due to these conditions and in accordance with direction from the Board of Directors, EID's General Manager, Jim Abercrombie, has declared a **Stage 4 Water Emergency for the Outingdale service area.** EID will now begin trucking drinking water to meet public health and safety needs from its main distribution system to tanks that supply its Outingdale service area. This practice will continue until conditions in the Middle Fork Cosumnes River improve, which is not expected until the rainy season begins. With the trucking operation, there should be no interruption of services, but supplies will be very limited. The trucking operation will take place during daylight hours, seven days a week.

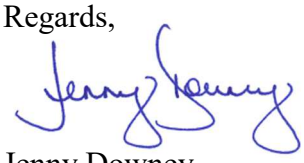
The District's Drought Action Plan requires all residential customers subject to a Stage 4 Water Emergency to reduce their water usage by more than 50 percent and Small Farm customers must reduce their usage by 65 percent, based upon their usage during the same billing cycle in 2020. The use of automatic sprinklers to irrigate existing turf, ornamental plants, gardens, or landscaped areas is prohibited. Customers must limit water usage during each bimonthly billing cycle to **401 cubic feet (approximately 3,000 gallons) of water per person**. This bimonthly volume is equal to **50 gallons per person per day**, which is the California Department of Water Resources' standard for meeting minimum health and safety requirements. Consistent with the Drought Action Plan, **please immediately curtail all outside watering other than that which occurs by hand-held hose with shut-off nozzle or by drip irrigation and pay close attention to conserving water inside your home.**

We are very confident that the Outingdale community will be able to make the necessary reductions in order to ensure EID can continue to deliver water in order to meet health and safety needs as they have done in past extreme drought years when it was necessary to truck water.

Additional drought information, including the Drought Action Plan, can be found on our website at www.eid.org/drought.

If you have any questions related to your account, such as your historical water usage, please contact EID customer services at 530-642-4000 or by email to billing@eid.org.

Regards,



Jenny Downey
Customer Service Manager

EL DORADO IRRIGATION DISTRICT

SUBJECT: Consider ratifying Resolution No. 2021-012 to maintain an emergency declaration regarding 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.

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

BP 2050 Administrative Leeway in the Absence of Policy
BP 3060 Contracts and Procurement
Public Contract Code sections 1102, 20567 and 22050 et. seq.
Public Resources Code section 21080(b) and California Environmental Quality Act ("CEQA") Guidelines section 15269

SUMMARY OF ISSUE

The Caldor Fire has threatened the District's ability to supply drinking water to its customers. This action ratifies Resolution 2021-012 to maintain the District's emergency declaration. The General Manager will provide periodic updates to the Board on the District's response to the Caldor Fire.

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 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.

The District performs a critical health and safety function for our customers—the supply of safe drinking water and wastewater services. It is imperative that the District continue to provide those critical functions during this emergency.

In order to ensure that the District is able to meet both the anticipated and unanticipated challenges that it is likely to face, the General Manager must have maximum flexibility in his ability to respond. District Board Policy 2050 authorizes the District's General Manager to act "in emergency situations where no Board Policies or Administrative Regulations exist."

Board Policy 3060, delegates to the General Manager authority to approve any and all contracts necessary to abate an emergency after first informing the President of the Board of Directors and scheduling an emergency meeting of the Board of Directors at the earliest possible opportunity.

Various provisions of law, including provisions in the Public Contracting Code, Public Resources Code, and Government Code govern aspects of the District's operations during declared emergencies.

BOARD OPTIONS

Option 1: Ratify Resolution No. 2021-012 to maintain emergency declaration.

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

Option 3: Take no action.

RECOMMENDATION

Option 1 *(four-fifths vote required).*

ATTACHMENTS

Attachment A: Resolution No. 2021-012

Brian Poulsen
General Counsel

Jim Abercrombie
General Manager

Resolution No. 2021-012

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

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

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

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

WHEREAS, the Caldor Fire is exhibiting extreme fire behavior and has caused mandatory evacuations orders in numerous areas, including areas of Pollock Pines and the communities of Grizzly Flats and Somerset, and the fire poses a high risk to multiple populated communities; and

WHEREAS, the District's Sly Park Recreation Area is under an evacuation order and the Caldor Fire is threatening numerous District facilities, including the critical drinking water facility of Reservoir A; and

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

WHEREAS, the Caldor Fire poses a clear and imminent danger to District facilities and personnel, demanding immediate action to prevent or mitigate loss of, or damage to life, 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

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

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

WHEREAS, Public Contract Code section 22050(a)(2) requires that before action is taken to procure equipment, services, and supplies without giving notice for bids, the governing body must first make a finding, based on substantial evidence set forth in the minutes of its meeting, that the 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

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

WHEREAS, District Board Policy 2050 authorizes the District's General Manager to act "in emergency situations where no Board Policies or Administrative Regulations exist;" and

WHEREAS, District Administrative Regulation 3061.1, subdivision g, authorizes emergency procurements of supplies, equipment, services, or construction items when there exists a threat to public health, welfare, or safety, and requires Board of Directors ratification of emergency procurements exceeding $100,000.

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

1. The Board finds and declares that the existing Caldor Fire constitutes an emergency within the meaning of Public Resources Code section 21080(b)(4), CEQA Guidelines section 15359, Public Contracts Code section 11102, District Board Policy 2050, and District Administrative Regulation 3061.1, subdivision g.
2. The Board finds and declares that the adoption of this Resolution and all of the delegations, authorizations, and directions to the General Manager and District staff specified in paragraph 4, below, satisfy the requirements and criteria of Public Resources Code section 21080(b)(4), CEQA Guidelines section 15269(c), and Public Contract Code sections 22050(a)(2) and 20567.
3. The foregoing findings and declarations are based upon all written, oral, and visual evidence, including both facts and professional opinions, presented to the Board at the adoption of this Resolution.
4. The Board hereby delegates, authorizes, and directs the District General Manager and his designees to take all actions reasonably deemed necessary to respond to the emergency conditions declared herein, including but not limited to the following specific actions:
   a. Enter into professional services and construction contracts as reasonably deemed necessary to respond to the Caldor Fire.
   b. Report to and seek ratification of the Board for any actions taken in excess of normal authority or authority expressly granted by this Resolution, at the first regular Board meeting held after each such action.

5. This Resolution shall take effect immediately upon adoption. Subject to the ratification required by Public Contract Code sections 22050(b)(3), (c)(1), and (c)(2), and by District Administrative Regulation 3061.1, subdivision g, this Resolution shall remain in full force and effect until rescinded by a subsequent Resolution of the Board of Directors.

The foregoing Resolution was introduced at a regular meeting of the Board of Directors of the EL DORADO IRRIGATION DISTRICT, held on the 23rd day of August 2021, by Director Osborne who moved its adoption. The motion was seconded by Director Veerkamp and a poll vote taken which stood as follows:

AYES: Directors Osborne, Veerkamp, Anzini and Day

NOES:

ABSENT: Director Dwyer

ABSTAIN:

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

_____
Lori Anzini, Vice President
Board of Directors
EL DORADO IRRIGATION DISTRICT

ATTEST:

_____
Jennifer Sullivan
Clerk to the Board
EL DORADO IRRIGATION DISTRICT

(SEAL)

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I, the undersigned, Clerk to the Board of the EL DORADO IRRIGATION DISTRICT hereby certify that the foregoing resolution is a full, true and correct copy of a Resolution of the Board of Directors of the EL DORADO IRRIGATION DISTRICT entered into and adopted at a regular meeting of the Board of Directors held on the 23rd day of August, 2021.

_____

Jennifer Sullivan
Clerk to the Board
EL DORADO IRRIGATION DISTRICT

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EL DORADO IRRIGATION DISTRICT

SUBJECT: Consider ratifying Resolution 2021-011 to maintain the emergency declaration for the Outingdale Diversion Dam rehabilitation.

PREVIOUS BOARD ACTION

August 9, 2021 – Board adopted Resolution 2021-011 declaring an emergency regarding Outingdale Diversion Dam and authorizing the emergency rehabilitation and reconstruction of the dam.

August 23, 2021 – Board ratified Resolution 2021-011 declaring an emergency regarding Outingdale Diversion Dam and authorizing the emergency rehabilitation and reconstruction of the dam.

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

BP 5010 Water Supply Management

SUMMARY OF ISSUE

Recent inspection of the Outingdale Diversion Dam revealed significant damage and deterioration that could not be observed under normal streamflow conditions. Emergency rehabilitation of the Dam is necessary to protect the integrity of the Dam and prevent catastrophic failure, and to maintain essential water service to the Outingdale community. Expedited emergency restoration is underway.

BACKGROUND/DISCUSSION

The Outingdale Diversion Dam, located on the Middle Fork Cosumnes River, provides the only water source for the Outingdale community. Water diverted at the Dam pool is pumped, then treated and distributed to District customers. On June 25, 2021, under extremely dry conditions and anticipated complete drying of the stream channel, diversion capacity was temporarily maintained with sand bags installed by staff. However, by July 26, 2021, streamflow had receded to the point that diversions were no longer possible.

Once streamflow receded to the point where water could no longer be diverted and most of the facility was in a dewatered state, the District's dam safety engineer and an on-call engineering consultant conducted an inspection of the Dam. The inspection identified significant deterioration, which compromises the structural integrity and functionality of the Dam that warrants immediate action and a more comprehensive condition assessment as streamflow continued to recede.

On August 9, 2021, the Board adopted Resolution No. 2021-011 declaring an emergency and authorizing immediate rehabilitation of the dam. The Public Contact Code requires the Board to ratify its emergency declaration at each regular Board meeting until the emergency ceases to exist. The Board ratified the emergency declaration at its subsequent meeting on August 23, 2021. The emergency rehabilitation will protect the Dam from failure, and will enable the District to maintain water service to Outingdale once streamflow conditions return to normal and diversions can resume. Until that time, the community will remain in a Stage 4 Water Emergency and water will continue to be trucked from the District's main water system. District staff will prepare a report to the Board once emergency rehabilitation of the dam is complete.

BOARD OPTIONS

Option 1: Ratify Resolution 2021-010 to maintain an emergency for the Outingdale Diversion Dam rehabilitation.

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

Option 3: Take no action.

RECOMMENDATION

Option 1

ATTACHMENTS

Attachment A: Resolution 2021-011

John Kessler
Chief Dam Safety Engineer

Brian Mueller
Engineering Director

Brian Poulsen
General Counsel

Jim Abercrombie
General Manager

Resolution No. 2021-011

RESOLUTION OF THE BOARD OF DIRECTORS OF EL DORADO IRRIGATION DISTRICT DECLARING A STATE OF EMERGENCY REGARDING OUTINGDALE DIVERSION DAM

WHEREAS, recent extreme drought conditions and receding water levels in the Middle Fork Cosumnes River enabled El Dorado Irrigation District (District) staff to perform a detailed inspection of the Outingdale Diversion Dam (Dam); and

WHEREAS, the recent inspection of the Dam revealed that the dam is in a significantly deteriorated condition, which compromises the structural integrity and functionality of the dam; and

WHEREAS, the deteriorated condition of the Dam was exposed due to the unexpected occurrence of the extreme drought conditions and associated dewatering of the Middle Fork Cosumnes River; and

WHEREAS, the deteriorated condition of the Dam constitutes an emergency, necessitating immediate action to prevent loss of essential public water service; and

WHEREAS, emergency rehabilitation of the Dam is necessary to restore the structural integrity of the Dam, and protect the Dam; and

WHEREAS, emergency work at the Dam is necessary to ensure that future water diversions at the Dam can occur, and to maintain future water service to Outingdale customers; and

WHEREAS, District staff anticipates performing the restoration work with District crews as soon as possible, to enable expedited rehabilitation of dam prior to the onset of high flows this winter when the Dam would be subjected to further unmitigated risk; and

WHEREAS, Public Resources Code section 21080(b)(2) and California Environmental Quality Act (CEQA) Guidelines section 15269(b) exempt from CEQA emergency repairs to public service facilities necessary to maintain service; and

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

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

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

WHEREAS, Public Contract Code section 22050(a)(2) requires that before action is taken to procure equipment, services, and supplies without giving notice for bids, the governing body must first make a finding, based on substantial evidence set forth in the minutes of its meeting, that the 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

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

WHEREAS, District Board Policy 2050 authorizes the District's General Manager to act "in emergency situations where no Board Policies or Administrative Regulations exist;" and

WHEREAS, District Administrative Regulation 3061.1, subdivision g, authorizes emergency procurements of supplies, equipment, services, or construction items when there exists a threat to public health, welfare, or safety, and requires Board of Directors ratification of emergency procurements exceeding $100,000; and

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

1. The Board finds and declares that the current condition of the Dam constitutes an emergency requiring emergency rehabilitation and reconstruction within the meaning of CEQA Guidelines section 15359, Public Contracts Code section 11102, District Board Policy 2050, and District Administrative Regulation 3061.1, subdivision g.
2. The Board finds and declares that the adoption of this Resolution and all of the delegations, authorizations, and directions to the General Manager and District staff specified in paragraph 4, below, satisfy the requirements and criteria of Public Resources Code sections 21080(b)(2) and 21080(b)(4), CEQA Guidelines sections 15269(b) and15269(c), and Public Contract Code sections 22050(a)(2) and 20567.
3. The foregoing findings and declarations are based upon all written, oral, and visual evidence, including both facts and professional opinions, presented to the Board at the hearing of this Resolution.
4. The Board hereby delegates, authorizes, and directs the District General Manager and his designees to take all actions reasonably deemed necessary to respond to the emergency conditions declared herein, including but not limited to the following specific actions:

a. Perform emergency rehabilitation and reconstruction of the Dam.

b. Prepare and submit all appropriate notifications and documentation for regulatory, permitting, and environmental compliance.

c. Enter into professional services and construction contracts as reasonably deemed necessary to expedite the rehabilitation and restoration of the Dam.

d. Report to and seek ratification of the Board for any actions taken in excess of normal authority or authority expressly granted by this Resolution, at the first regular Board meeting held after each such action.

e. Report to the Board at least monthly, and more often if necessary, on the current status of the Dam emergency, responsive actions taken, and the need, if any, for further Board actions.

5. This Resolution shall take effect immediately upon adoption. Subject to the ratification required by Public Contract Code sections 22050(b)(3), (c)(1), and (c)(2), and by District Administrative Regulation 3061.1, subdivision g, this Resolution shall remain in full force and effect until rescinded by a 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 9th day of August 2021, by Director Anzini who moved its adoption. The motion was seconded by Director Veerkamp and a poll vote taken which stood as follows:

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

NOES:

ABSENT:

ABSTAIN:

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

Roger "Pat" Dwyer, President
Board of Directors
EL DORADO IRRIGATION DISTRICT

ATTEST:

Jennifer Sullivan
Clerk to the Board
EL DORADO IRRIGATION DISTRICT

(SEAL)

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I, the undersigned, Clerk to the Board of the EL DORADO IRRIGATION DISTRICT hereby certify that the foregoing resolution is a full, true and correct copy of a Resolution of the Board of Directors of the EL DORADO IRRIGATION DISTRICT entered into and adopted at a regular meeting of the Board of Directors held on the 9th day of August 2021.

Jennifer Sullivan
Clerk to the Board
EL DORADO IRRIGATION DISTRICT

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EL DORADO IRRIGATION DISTRICT

SUBJECT: Caldor Fire update regarding impacts to District facilities.

PREVIOUS BOARD ACTION

August 23, 2021 – Board received a brief update regarding status of the Caldor Fire and potential impacts to District facilities.

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

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

BP 5010 Water Supply Management
BP 5050 Watershed Management

SUMMARY OF ISSUE

The Caldor Fire continues to threaten thousands of homes and other structures in El Dorado, Amador, and Douglas Counties (Nevada) necessitating the evacuation of thousands of residents. Federal, state and local governments have declared a state of emergency to assist with response and recovery efforts. The General Manager committed to provide periodic updates to the Board on the District's response to the Caldor Fire. Damages assessment are ongoing, but staff will provide an update regarding the status of the fire and known damage at this time.

BACKGROUND/DISCUSSION

On the evening of August 14, 2021 the Caldor Fire broke out south of Grizzly Flats in southern El Dorado County. During the overnight hours of August 16th into August 17th the fire experienced explosive northerly growth overtaking the community of Grizzly Flats and advancing on the District's service area. During the morning of August 17th District staff quickly evacuated guests at Sly Park Recreation Area (SPRA) and relocated all staff and most equipment from SPRA and Camp 5 hydroelectric operations facilities. Staff then coordinated with fire officials on a daily basis for nearly three weeks to protect District assets wherever possible and aid in fire suppression efforts through key operations of hydrants and reservoir releases for drafting water into fire engines.

The fire continues to present safety hazards to District assets, but where safe access has been authorized by CalFire officials staff have begun evaluating damage to determine reconstruction methods and schedule to avoid any disruptions in consumptive water supplies. Since the last update the District has incurred damage to multiple Project 184 flumes, Echo Conduit, multiple communication facilities, and various structures associated with Project 184 operations. The Strawberry water system was fortunate and appears to only have suffered minor damage. SPRA was spared thanks, in part, to recently completed fuel reduction work on the south side of the reservoir. Due to current fire activity it is unknown if any Project 184 recreation improvements and/or hydroelectric monitoring equipment along the Highway 88 corridor have been damaged at this time.

During the Board meeting staff will provide a presentation summarizing the overall fire activity and known fire damage at this time.

BOARD OPTIONS
None – Information only.

RECOMMENDATION
None – Information only.

ATTACHMENTS
None

Dan Corcoran
Operations Director

Jim Abercrombie
General Manager

EL DORADO IRRIGATION DISTRICT

SUBJECT: Review of the 2013 Integrated Water Resources Master Plan.

PREVIOUS BOARD ACTION

March 25, 2013 – Board adopted the 2013 Integrated Water Resources Master Plan (IWRMP).

March 27, 2017 – Board reviewed the 2013 IWRMP relating to the Folsom Lake raw water pump station.

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

BP 5010 Water Supply Management

SUMMARY OF ISSUE

The Board requested a review of the 2013 IWRMP.

BACKGROUND/DISCUSSION

2013 IWRMP Review

At Board request, the following is a summary of the 2013 IWRMP (Master Plan) water supply alternatives, water demand projections at the time, and recommendations related to future infrastructure needs. A comprehensive planning process was used for the Master Plan to develop and evaluate a wide range of alternatives for the District's water supply, treatment, conveyance and recycled water systems. The planning process focused on developing and screening initial concepts followed by the refinement and evaluation of more specific alternatives. The initial screening of concepts resulted in three main water supply delivery alternatives, with several sub-alternatives being further analyzed. These variations are discussed in detail in Chapter 6 of the Master Plan, which can be found at www.eid.org/home/showdocument?id=3554 .

Demand Projections and Buildout estimate

The following table presented the water demand growth forecasts and buildout demand for each region. Values are acre-feet/year (AFY).

Table 9-1. Water Demand Growth Forecasts (Updated)

Year	Eastern (AFY)		Western[a] (AFY)		El Dorado Hills[b] (AFY)		Total Demand (AFY)	
	High	Low	High	Low	High	Low	High	Low
2015	15,665	15,665	19,731	17,273	13,468	10,461	48,863	43,398
2020	15,739	15,739	21,308	18,137	15,045	11,764	52,092	45,639
2025	15,891	15,891	24,833	19,617	18,741	14,837	59,465	50,345
2030	16,207	16,207	28,795	21,460	23,373	17,469	68,375	55,136
2035	16,542	16,542	34,194	25,074	26,578	19,645	77,315	61,262
Buildout	26,360	26,360	35,206	35,206	26,578	26,578	88,144	88,144

Notes:
(a) Includes Zones 1, 4, 5, 6, and 7.
(b) Includes Zone 2.

Review of Alternatives

Alternative I, Gravity Supply – The primary goal of this alternative is to minimize pumping and related capital cost to deliver new supplies from Folsom Reservoir. Water supply delivery by gravity from eastern sources includes the Permit 21112 supply with new points of diversion at the White Rock penstock and/or El Dorado Diversion Dam, the El Dorado-SMUD Cooperation Agreement supply at White Rock, and potentially a new Alder Reservoir supply. Central Valley Project (CVP) contract water and the District's Ditch/Weber Reservoir supplies would continue to be pumped from Folsom Lake along with a future Fazio CVP contract water. The Permit 21112 supply could also continue to be taken at Folsom Lake as needed.

In these alternatives, the capacity of the Folsom Lake raw water pump station and El Dorado Hills Water Treatment Plant (EDHWTP) are limited to approximately 26 million gallons per day (mgd). New treatment for the White Rock diversion would begin with an initial 10 mgd treatment facility, eventually expanding up to 44-58 mgd at buildout. New transmission lines would need to be phased to eventually deliver water to the west into El Dorado Hills while maintaining the 26 mgd EDHWTP capacity.

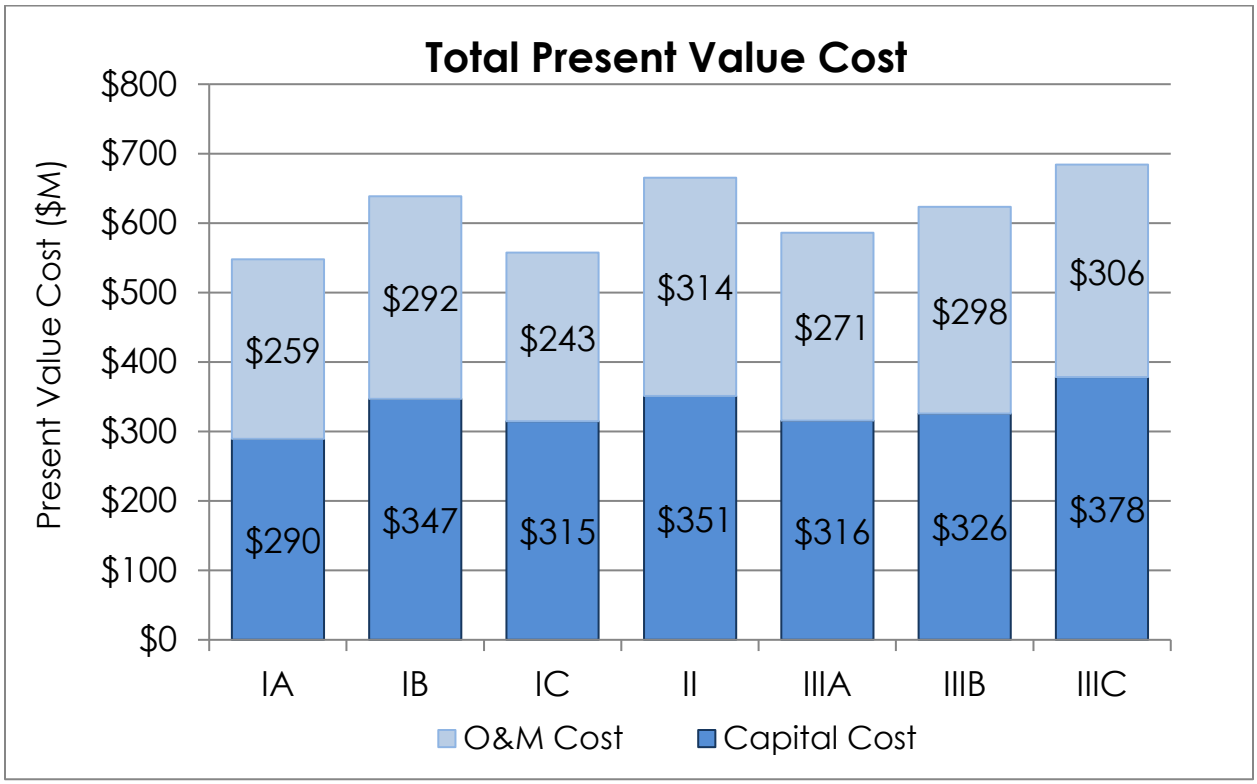
Alternative II, Pumped Supply – This alternative would eliminate the need for a new diversion at White Rock and its associated capital costs, but would increase pumping at Folsom Lake and require expanded treatment, transmission and pumping facilities in El Dorado Hills to deliver new supplies from Folsom Lake eastward into the Cameron Park and Diamond Springs service areas. Water supply delivered by pumping from Folsom Lake would include existing CVP contract water, Ditch/Weber Reservoir supplies, Permit 21112 supply, new Fazio CVP contract water and El Dorado-SMUD Cooperation Agreement supply.

In this alternative, the capacity of the Folsom Lake raw water pump station and EDHWTP would be expanded in phases up to 84 mgd along with associated new transmission facilities to deliver water to the east. Due to space limitations at the EDHWTP, a new treatment plant would likely be required if this alternative were pursued.

Alternative III, Pumped/Gravity Supply – This alternative represented a combination of Alternatives I and II and requires both a new diversion at White Rock and expanded pumping, treatment and transmission from Folsom Lake. Water supply would be delivered by a combination of gravity and pumping. New supply delivered by gravity includes El Dorado-SMUD Cooperation Agreement supply and a portion of the Permit 21112 supply water at White Rock. Delivery by pumping from Folsom Lake includes existing CVP contract water, Ditch/Weber Reservoir water rights, new Fazio CVP contract water, and a portion of the Permit 21112 supply. One of the sub-alternatives also includes taking El Dorado-SMUD Cooperation Agreement water at Folsom Lake.

In this alternative, the capacity of the Folsom Lake raw water pump station and EDHWTP would be expanded to 50-54 mgd and the White Rock facilities would have a capacity of approximately 34 mgd.

The life cycle cost for each alternative is shown in the figure below.



The 2013 Master Plan identified a combination of Alternatives IA/IC (with or without Alder Reservoir) as the recommended water resources plan with both the lowest capital and operations & maintenance costs. Cost per acre-foot is also the lowest for Alternative I. In summary, the benefits of Alternative I are summarized below.

- Pumping is minimized at Folsom Reservoir to the extent of water rights and water service contracts allow, thereby reducing long term annual operations cost.
- New supply and treatment/transmission capacity is introduced in the middle of the system at White Rock where it is needed for delivery to high growth areas.
- Stranding existing water treatment plant and transmission capacity in minimized, i.e. Folsom Lake raw water pump station, EDHWTP and transmission capacity remain at their approximate existing capacity.
- Lowest life cycle cost and cost per acre-foot.

Preliminary cost estimates were completed in 2013 for Alternative 1A in Table 1 below. These costs were in 2013 dollars and differ from the total present value costs shown above which were discounted based on the time value of money. Also, the timing and phasing of these improvements were estimates, and with the recent downward trend in demands, future expansion needs are not needed nearly as quickly as estimated in 2013.

Table 1 – Estimated Capital Costs of the Recommended Plan

Facility	Phase 1 2012 – 2020	Phase 2 2021 – 2030	Phase 3 2031 – Buildout	Total Capital Cost
White Rock Diversion	$4,712,000	$40,158,000	$0	$44,870,000
Alder Reservoir	$200,000	$9,600,000	$96,820,000	$106,620,000
Water Supply Subtotal	***$4,912,000***	***$49,758,000***	***$96,820,000***	***$151,490,000***
Compliance with Stage 2 D/DBP Rule	$200,000	$0	$0	$200,000
Reservoir 1 WTP	$6,930,000	$0	$0	$6,930,000
Reservoir A WTP	$200,000	$0	$0	$200,000
EDHWTP	$3,250,000	$0	$0	$3,250,000
New WTP	$4,300,000	$57,700,000	$120,420,000	$182,420,000
Water Treatment Subtotal	***$14,880,000***	***$57,700,000***	***$120,420,000***	***$193,000,000***
Sly Park Intertie Upgrade	$4,320,000	$0	$0	$4,320,000
DSM Parallel Pipeline Between Res 11 and Res 12	$6,480,000	$0	$0	$6,480,000
Pipeline from New WTP to Valley View and Bass Lake Tanks	$6,690,000	$67,640,000	$0	$74,330,000
EDH Zone 2 Improvements	$0	$0	$9,090,000	$9,090,000
Water Transmission Subtotal	***$17,490,000***	***$67,640,000***	***$9,090,000***	***$94,220,000***
Treated Water Storage	***$10,805,000***	***$4,630,000***	***$20,180,000***	***$35,615,000***
Recycled Water	*--*	*--*	*--*	*--*
Programmatic EIR	***$175,000***	***$0***	***$0***	***$175,000***
Future IWRMP Updates	***$250,000***	***$250,000***	***$0***	***$500,000***
Total Capital Cost	**$48,512,000**	**$179,978,000**	**$246,510,000**	**$475,000,000**

Summary

The 2013 Master Plan determined the least cost (both in capital and O&M) option was to limit pumping from Folsom Lake to 26 mgd and to begin developing a gravity option in the White Rock project as demands increase over time.

El Dorado Hills facility planning

The 2013 Master Plan and subsequent 2020 Urban Water Management Plan (UWMP) identified future supply and demand for the El Dorado Hills service area that is consistent with a 26 mgd maximum day capacity for the EDHWTP. District supplies available only for diversion at Folsom Lake include the existing CVP water service contract, Weber/Ditch water rights, and Fazio CVP contract. These supplies, together with P21112 supply as needed, support a long term need for maintaining the capacity of the EDHWTP and Folsom Lake raw water pump station at approximately 26 mgd. For long term planning, demands exceeding the EDHWTP capacity would be supplemented by additional gravity supplies in the future.

Progress since 2013

Since the adoption of the 2013 Master Plan, updated water demand projections were developed for the 2015 and 2020 Urban Water Management Plans. Demand projections have been reduced significantly since 2013 as a result of the 2014-2016 drought, incorporating new conservation trends and state mandates, and a generally slower growth forecast for new development with lower unit demands. For example, the 2013 Master Plan average year demand projection for the District service area in Year 2025 was between 50,345 AF-59,465 AF, compared to the more current 2025 estimate of 34,740 AF from the 2020 UWMP. The new demand projections would significantly defer the need for large new capital projects needed for growth, such as the White Rock facilities and new treatment plant.

The District is pursuing a change in the point of diversion of the P21112 water supply to add points of diversion at the El Dorado Diversion Dam and the White Rock penstock or potentially Slab Creek reservoir. However there are several other supplies that can only be taken at Folsom Reservoir (CVP contract, Ditch/Weber reservoir supply, Fazio) which will necessitate continued pumping and associated capital replacement of these assets including the EDHWTP and Folsom Lake pump station. The Folsom Lake raw water pump station is currently being upgraded to continue to reliably deliver Folsom supplies to customers in El Dorado Hills. The EDHWTP will require an expansion from the existing 19.5 mgd capacity to a firm 26 mgd capacity prior to development of new gravity supplies, along with replacement of existing treatment plant components to maintain reliability.

Other projects included in the 2013 Master Plan include the Main Ditch piping, Reservoir 1 WTP improvements, Sly Park Intertie, and treated water storage tank and reservoir replacements. These projects are in various stages of planning, design and/or construction.

2022 Water Master Plan Update

Staff is currently requesting Statement of Qualifications from consultants interested in assisting the District with updating the 2013 Master Plan. A Request for Proposals will follow and Board consideration of approval of the Master Plan update is scheduled later this year. The Master Plan update will take the overall recommendations of the 2013 Master Plan and update and refine the infrastructure capital plan in more detail. The Master Plan update is expected to be complete in 2022, and staff will then use the recommendations of the Master Plan to perform a comprehensive review and update to the District's Facility Capacity Charges, while also incorporating project needs in the 5-year Capital Improvement Plan (CIP) and financial plan.

FUNDING

The 2021-2025 CIP, which the Board adopted in late 2020, identified $400,000 for preparation of the Water Master Plan update.

BOARD OPTIONS

No action – Information only.

RECOMMENDATION

No action – Information only.

ATTACHMENTS

None

Brian Mueller
Engineering Director

Brian Poulsen
General Counsel

Jim Abercrombie
General Manager

2013 INTEGRATED WATER RESOURCES MASTER PLAN REVIEW

INFORMATION ITEM

September 13, 2021

PREVIOUS BOARD ACTIONS

- March 25, 2013 – The Board adopted the 2013 Integrated Water Resources Master Plan.
- March 27, 2017 – Board reviewed the 2013 Integrated Water Resources Master Plan related to the Folsom Lake raw water pump station.

SUMMARY OF ISSUE

- Agenda item purpose is to provide Board requested information on 2013 Integrated Water Resources Master Plan (IWRMP)

BACKGROUND

- Eastern and Western supply sources projected to be fully utilized by existing demand
- New supplies at Folsom expected to exceed future demand in EDH
- Previous master planning anticipated a mix of gravity supply and additional pumping
  - However, high pumping and infrastructure cost
  - Options were reconsidered in 2013

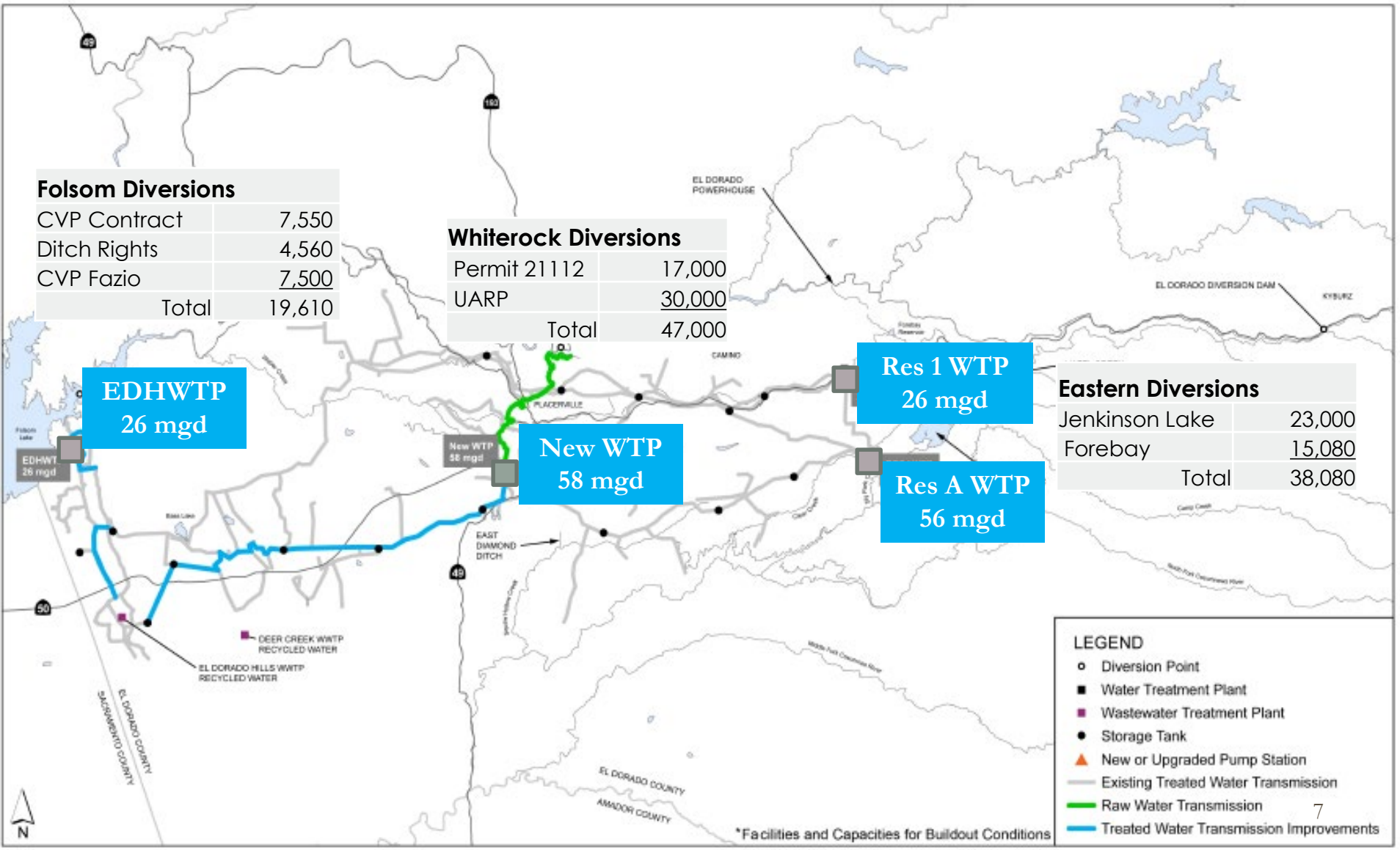
ALTERNATIVE DEVELOPMENT

- Developed and evaluated wide range of alternatives
  - Water Supply
  - Treatment
  - Conveyance
  - Recycled Water
- Screening process resulted in three main water supply alternatives
- Balancing capital cost with pumping cost

ALTERNATIVES

- **I – Gravity Supply**
  - Minimize pumping from Folsom (26 mgd)
  - Add Whiterock diversion (10 mgd then 44-58 mgd)
- II – Pumped Supply
  - Eliminates Whiterock diversion
  - Expand Folsom pumping (84 mgd)
  - New treatment plant site required
- III – Pumped/Gravity Supply
  - Add Whiterock diversion (34 mgd)
  - Expand Folsom pumping (50-54 mgd)

ALTERNATIVES IA–GRAVITY SUPPLY



ALTERNATIVES

- I – Gravity Supply
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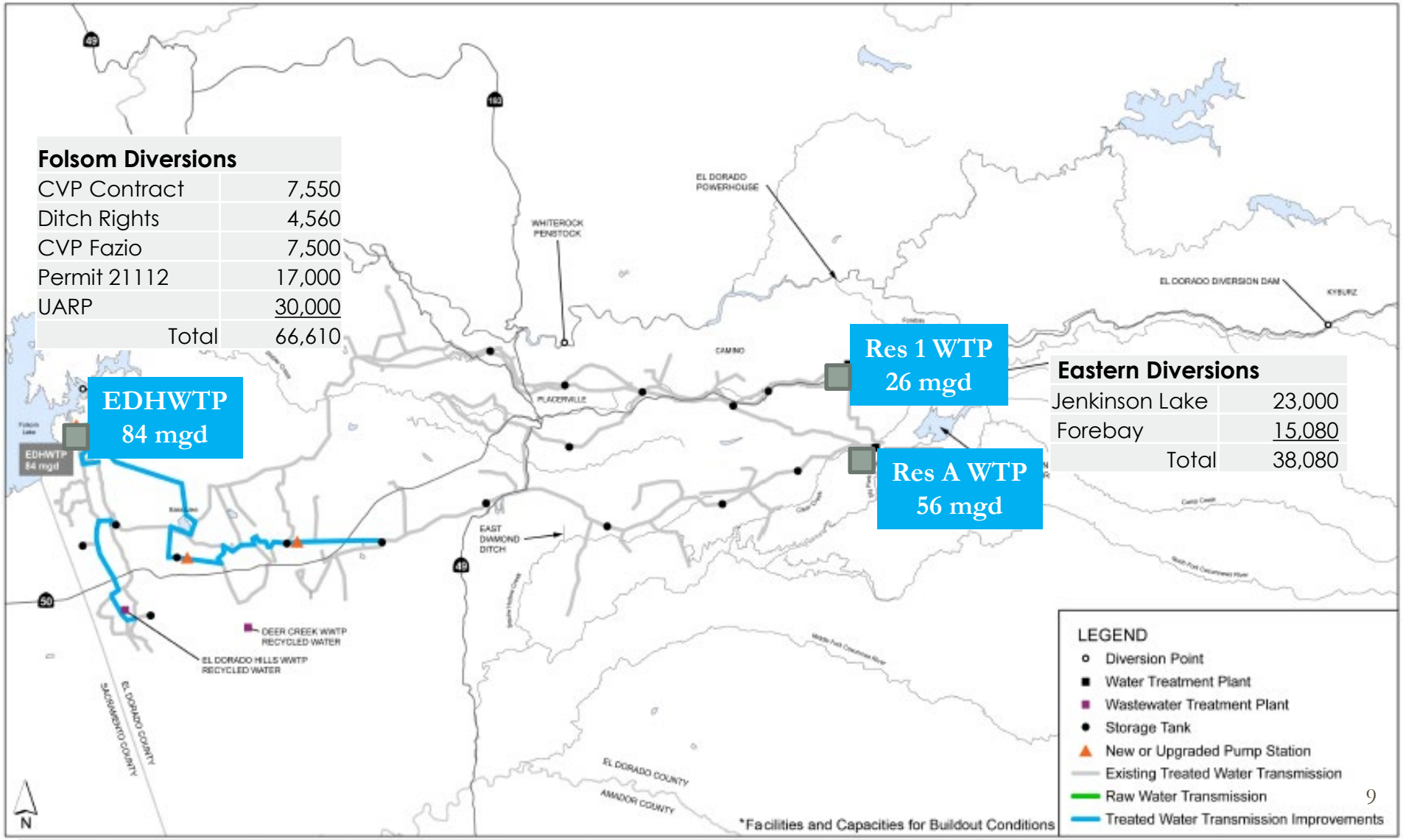
  - New treatment plant site required
- III – Pumped/Gravity Supply
  - Add Whiterock diversion (34 mgd)
  - Expand Folsom pumping (50-54 mgd)

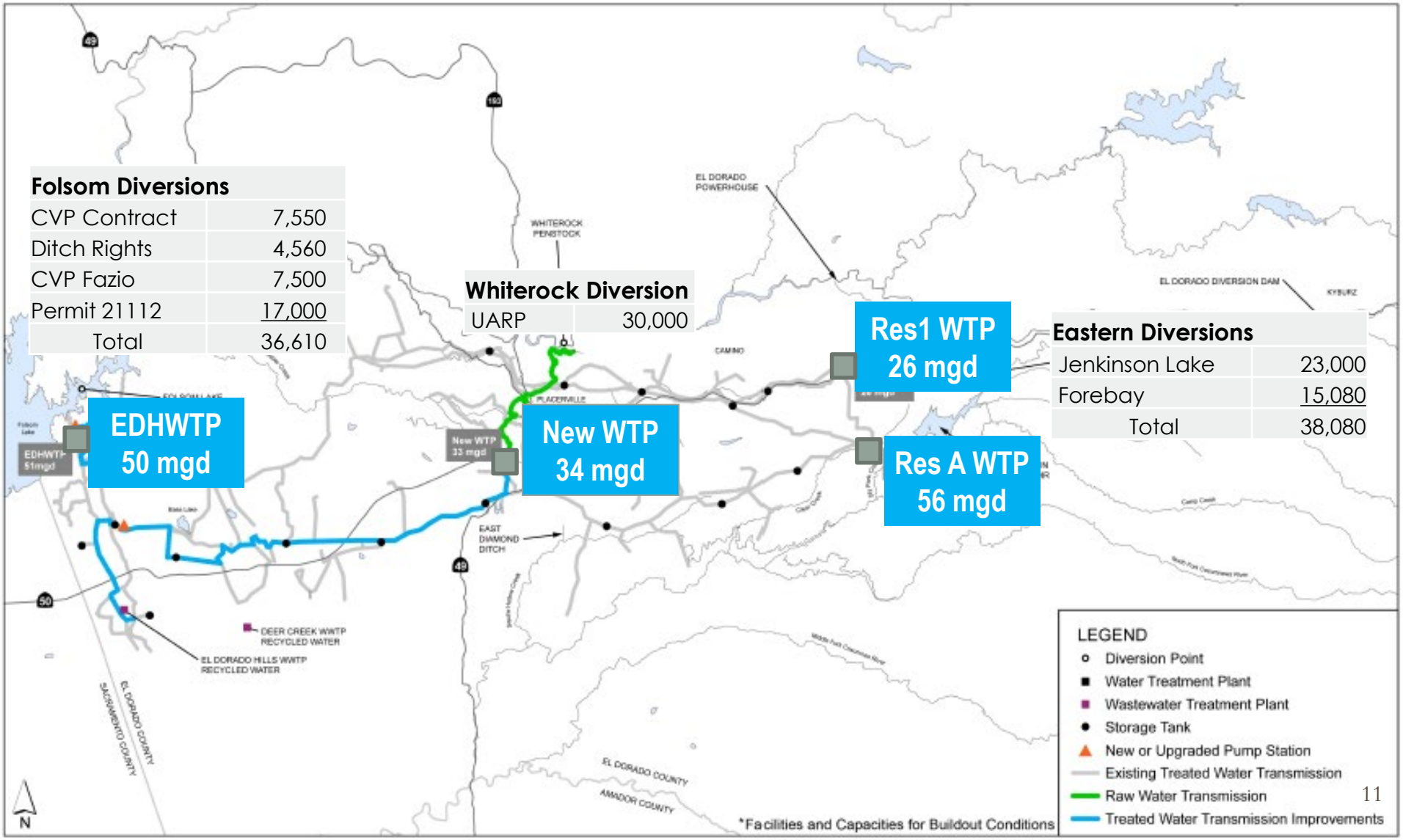
ALTERNATIVE II - PUMPED



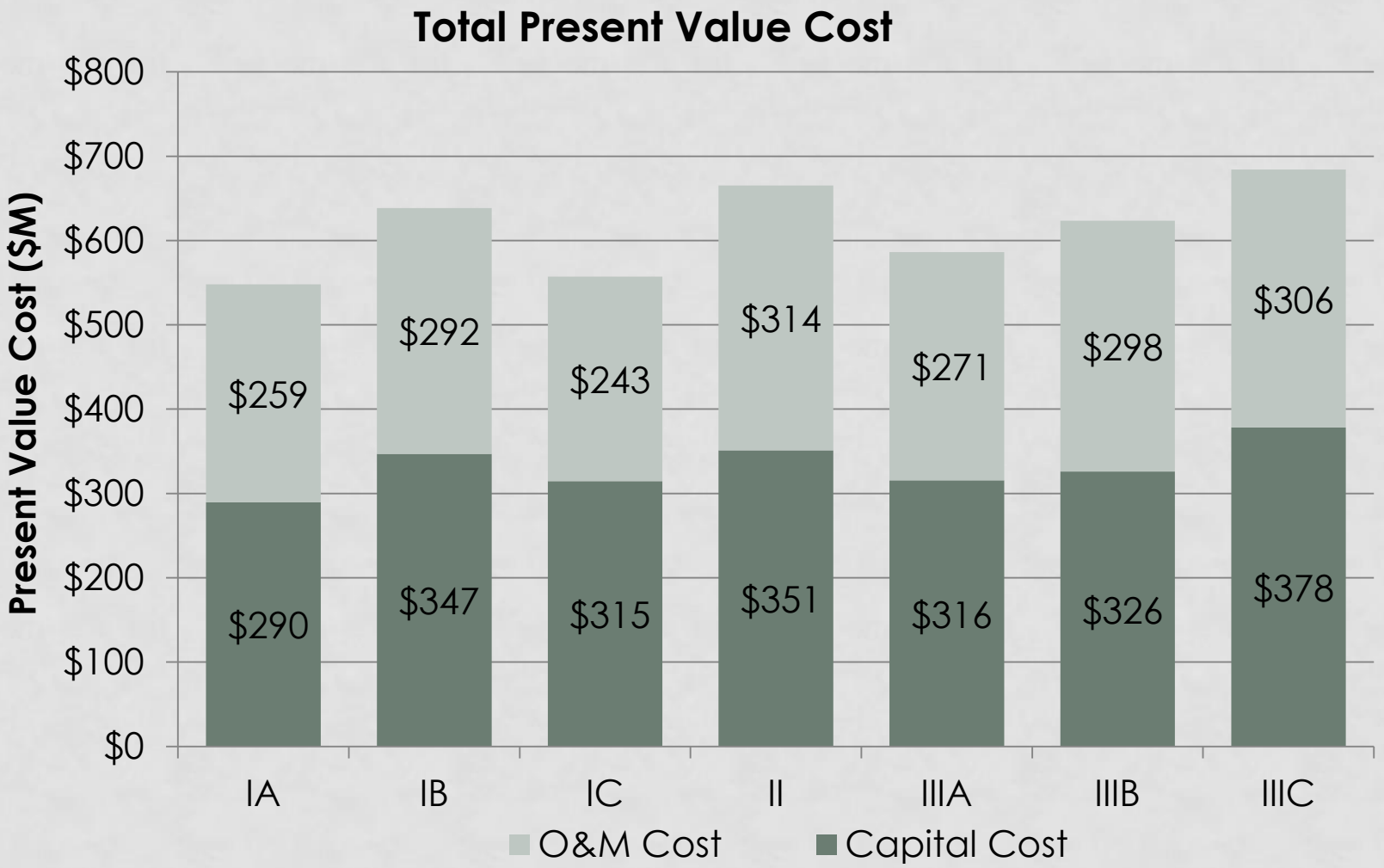
ALTERNATIVES

- I – Gravity Supply
  - Minimize pumping from Folsom (26 mgd)
  - Add Whiterock diversion (10 mgd then 44-58 mgd)
- II – Pumped Supply
  - Eliminates Whiterock diversion
  - Expand Folsom pumping (84 mgd)
  - New treatment plant site required
- **III – Pumped/Gravity Supply**
  - Add Whiterock diversion (34 mgd)
  - Expand Folsom pumping (50-54 mgd)

ALTERNATIVES IIIB – PUMPED/GRAVITY SUPPLY, WHITE ROCK DEFERRED



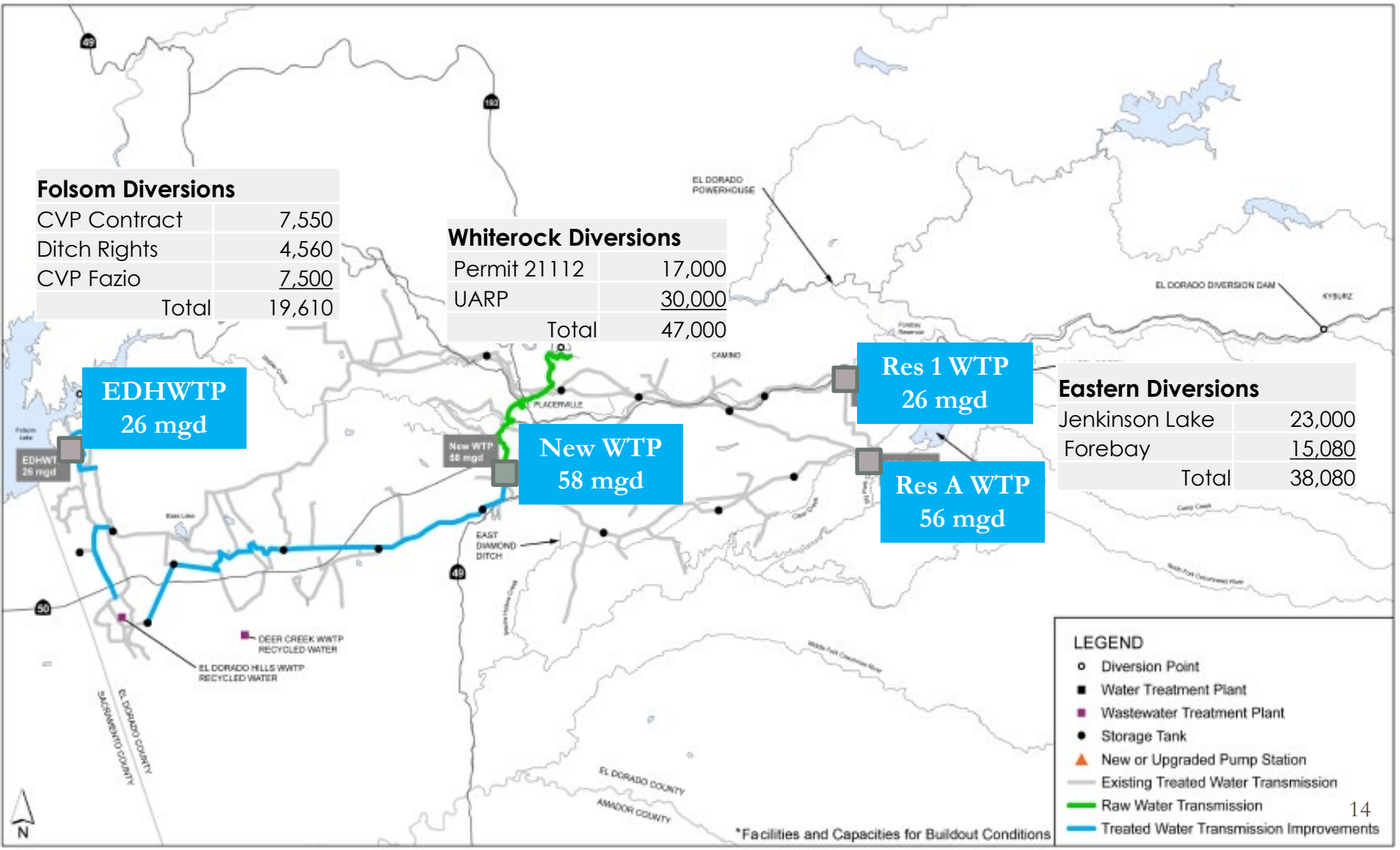
ECONOMIC EVALUATION



CONCLUSIONS

- Alternatives IA/IC recommended
  - Lowest total present value life cycle cost
  - Lowest long-term cost per AF
  - Minimizes stranded capital assets (EDHWTP)
  - Introduces new supply uphill of growth areas
  - Provides for scalability of infrastructure (Whiterock)
  - Provides future decision flexibility (Alder Reservoir)

ALTERNATIVES IA–GRAVITY SUPPLY



ALTERNATIVE 1 - PHASING/COST

Facility	Phase 1 2012 – 2020	Phase 2 2021 – 2030	Phase 3 2030 – Buildout	Total Capital Cost
White Rock Diversion	$4,712,000	$40,158,000	$0	$44,870,000
Alder Reservoir	$200,000	$9,600,000	$96,820,000	$106,620,000
Water Supply Subtotal	**$4,912,000**	**$49,758,000**	**$96,820,000**	**$151,490,000**
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Reservoir 1 WTP	$6,930,000	$0	$0	$6,930,000
Reservoir A WTP	$200,000	$0	$0	$200,000
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New WTP	$4,300,000	$57,700,000	$120,420,000	$182,420,000
Water Treatment Subtotal	**$14,880,000**	**$57,700,000**	**$120,420,000**	**$193,000,000**
Sly Park Intertie Upgrade	$4,320,000	$0	$0	$4,320,000
DSM Parallel Pipeline Between Res 11 and Res 12	$6,480,000	$0	$0	$6,480,000
Pipeline from New WTP to Valley View and Bass Lake Tanks	$6,690,000	$67,640,000	$0	$74,330,000
EDH Zone 2 Improvements	$0	$0	$9,090,000	$9,090,000
Water Transmission Subtotal	**$17,490,000**	**$67,640,000**	**$9,090,000**	**$94,220,000**
Treated Water Storage	**$10,805,000**	**$4,630,000**	**$20,180,000**	**$35,615,000**
Recycled Water	**--**	**--**	**--**	**--**
Programmatic EIR	**$175,000**	**$0**	**$0**	**$175,000**
Future IWRMP Updates	**$250,000**	**$250,000**	**$0**	**$500,000**
Total Capital Cost	**$48,512,000**	**$179,978,000**	**$246,510,000**	**$475,000,000**

SUMMARY

- 2013 IWRMP determined Alternative I to be least cost option
  - Limit pumping from Folsom to 26 mgd
  - Begin Whiterock diversion development
- Several supplies can only be taken at Folsom
  - Existing CVP contract
  - Ditch/Weber water rights
  - New Fazio (PL101-514) CVP contract
- Continued Folsom pumping cannot be avoided

SUMMARY

- Move P21112 diversion upstream to meet additional demands by gravity
- Additional points of diversion being pursued for flexibility
  - Whiterock/Slab Creek Reservoir
  - El Dorado Diversion Dam
- Update to Master Plan scheduled 2021/2022
  - Use UWMP demand projections
  - Update infrastructure plan

QUESTIONS?

EL DORADO IRRIGATION DISTRICT

SUBJECT: June 30, 2021 Financial Update.

PREVIOUS BOARD ACTION

Staff presents a financial update to the Board on a quarterly basis.

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

BP 3010 Budget
BP 3030 General Manager's Reporting Responsibilities

SUMMARY OF ISSUE

Staff will present to the Board a financial status report on revenues, expenditures, and cash compared to the adjusted budget and report on the occurrence of any irregular conditions, such as the need to fund unbudgeted items. This is a financial report for the six months ended June 30, 2021.

BACKGROUND/DISCUSSION

This agenda item provides a report on the District's fiscal condition as of June 30, 2021. For the year, the District has recorded about $54.4 million in revenues and $26.5 million in operating expenses with a net increase of $27.9 million. However, total cash has decreased by $8.6 million to $121.9 million at June 30, 2021 related to debt payments of $11.8 million, capital construction of $28.6 million, equipment purchases of $2.1 million, a reduction in yearend accounts payable of $2.2 million, the hydroelectric PG&E deposit refund of $4.0 million, and a decrease of $4.2 million in grant and property tax receivables compared to December 31, 2020.

June 30, 2021 Financial Update

District Revenues: Tables 1 and 2 represent revenues recorded, by fund and category, for the quarter ended June 30, 2021, with comparable 2020 numbers, as compared with one-half of the adopted budget for each year.

Table 1
Total Revenues by Fund
(in millions)

	2020			2021		
Revenue Fund	**6 Months Adopted Budget**	**June 30 Revenues**	**Variance Over / (Under)**	**6 Months Adopted Budget**	**June 30 Revenues**	**Variance Over / (Under)**
Water	$ 25.629	$ 20.906	$ (4.723)	$ 25.245	$ 30.553	$ 5.308
Wastewater	17.117	15.734	(1.383)	16.908	20.041	3.133
Recycled Water	0.709	0.915	0.206	0.752	0.896	0.144
Hydroelectric	4.000	5.248	1.248	3.500	2.289	(1.211)
Recreation	0.643	0.458	(0.185)	0.749	0.584	(0.165)
Total Revenues	**$ 48.098**	**$ 43.261**	**$ (8.679)**	**$ 47.154**	**$ 54.363**	**$ 7.209**

Recorded revenues for 2021 are approximately $7.2 million higher than one-half of the budgeted revenues for the year. Revenue is up $11.10 million year over year.

Table 2 compares 2020 and 2021 seasonally adjusted budgeted and actual revenue results for each year.

Table 2
Total Revenues by Category
(in millions)

	2020			2021		
Revenue Category	**6 Months Adjusted Budget**	**June 30 Revenues**	**Variance Over / (Under)**	**6 Months Adjusted Budget**	**June 30 Revenues**	**Variance Over / (Under)**
Water Sales and Services	$ 13.267	$ 14.450	$ 1.183	$ 13.986	$ 16.305	$ 2.319
Wastewater Sales and Services	10.796	11.146	0.350	10.994	10.590	(0.404)
Recycled Water Sales	0.709	0.900	0.191	0.751	0.895	0.144
Hydropower Sales	4.000	5.170	1.170	3.500	2.279	(1.221)
Investment Income	0.375	0.479	0.104	0.375	0.226	(0.149)
Debt Surcharges	1.215	1.127	(0.088)	0.792	0.939	0.147
Property Tax	6.226	6.615	0.389	6.351	6.921	0.570
Other Income	1.387	1.291	(0.096)	1.294	3.031	1.737
Recreation	0.734	0.432	(0.302)	0.749	0.581	(0.168)
Subtotal	**38.709**	**41.610**	**2.901**	**38.792**	**41.767**	**2.975**
FCCs	9.389	1.651	(7.738)	8.362	12.596	4.234
Total Revenues	**$ 48.098**	**$ 43.261**	**$ (4.837)**	**$ 47.154**	**$ 54.363**	**$ 7.209**

Most revenue categories show minimal changes year over year with the exception of water sales, hydropower sales, and FCCs. The increase in water sales and the decrease in hydropower sales are both due to the recent drought conditions. The increase in FCC revenue is related to the purchase of meters by developers as construction has started to return from the slowdown impact of the COVID-19 pandemic.

District Operating Expenses: For the quarter ended June 30, 2021, the District has incurred about $26.5 million of its $57.7 million annual operating expense budget. Table 3 reflects operating expenses, by category, compared to six months of the annual budget.

Table 3
Budget to Actual Operating Expenses by Category
January 1- June 30, 2021
(in millions)

Operating Expense Category	**6 Months Adopted Budget**	**June 30 Expenses**	**Over / (Under)**
Salaries	$ 10.778	$ 9.606	$ (1.172)
Benefits	8.229	7.898	(0.331)
Materials and Supplies			
Operating Supplies	2.263	1.885	(0.378)
Chemicals	0.643	0.447	(0.196)
Administrative Costs	2.098	2.250	0.152
Utilities	2.913	2.107	(0.806)
Professional Services	2.405	2.184	(0.221)
Repair Services	1.893	1.815	(0.078)
Insurance	0.448	0.530	0.082
Operating Capital	0.149	0.071	(0.078)
Contingency	0.125	0.000	(0.125)
Grants	0.000	0.000	0.000
Reimbursements from Developers	0.000	0.000	0.000
Labor Offsets	(3.080)	(2.340)	0.740
Total Operating Expenses	**$ 28.864**	**$ 26.453**	**$ (2.411)**

Table 4 shows the District's operating expenses, by category, for the six months ended June 30, 2021 compared to the annualbudget.

Table 4
Budget to Actual Operating Expenses by Category
January 1- June 30, 2021
(in millions)

Operating Expense Category	**6 Months Adopted Budget**	**June 30 Expenses**	**% of Budget**
Wages	$ 10.778	$ 9.606	89.1%
Benefits (Table 5)	8.229	7.898	96.0%
Salaries and Benefits	**19.007**	**17.504**	**92.1%**
CIP and Development Reimbursement Labor Offsets	(3.080)	(2.340)	76.0%
Net Personnel Expense	**15.927**	**15.164**	**95.2%**
Materials and Services			
Operating Supplies	2.263	1.885	83.3%
Chemicals	0.643	0.447	69.5%
Administration	2.098	2.250	107.2%
Utilities	2.913	2.107	72.3%
Professional Services	2.405	2.184	90.8%
Repair Services	1.893	1.815	95.9%
Insurance	0.448	0.530	118.3%
Operating Capital Outlay	0.149	0.071	47.7%
Contingency	0.125	0.000	n/a
Total Materials and Services	**12.937**	**11.289**	**87.3%**
Total Operating Expenses	**$ 28.864**	**$ 26.453**	**91.6%**

Actual expenses for the first six months of 2021 are 45.8% of the total approved 2021 budget which is on track for this time within the 2021 fiscal year.

Table 5 shows the employee benefits, by type, for the six months ended June 30, 2021 compared to the annual budget.

Table 5
Budget to Actual Employee Benefits
January 1-June 30, 2021
(in millions)

Benefit Type	**6 Months Adopted Budget**	**June 30 Expenses**	**% of Budget**
Medical	$ 2.192	$ 1.890	86.2%
Retiree Health	0.986	0.978	99.2%
Dental/Vision	0.170	0.159	93.5%
EAP	0.004	0.000	0.0%
Life	0.036	0.009	25.0%
Workers' Compensation	0.130	0.115	88.5%
FICA	0.782	0.782	100.0%
PERS	3.855	3.893	101.0%
Medical Reimbursement	0.030	0.022	73.3%
Vehicle Allowance	0.018	0.018	100.0%
Other Employee Costs	0.026	0.032	123.1%
Total Benefits	**$ 8.229**	**$ 7.898**	**96.0%**

Employee benefits are in line for the first six months of 2021.

Table 6 shows the operating expenses by category comparing 2020 and 2021 results.

Table 6
Operating Expenses by Category
(in millions)

	2020	2021	
Operating Expense Category	**June 30 Expenses**	**June 30 Expenses**	**Increase / (Decrease)**
Salaries	$ 9.416	$ 9.606	$ 0.190
Benefits	7.428	7.898	0.470
Materials and Supplies			
Operating Supplies	1.956	1.885	(0.071)
Chemicals	0.437	0.447	0.010
Administrative Costs	2.452	2.250	(0.202)
Utilities	2.243	2.107	(0.136)
Professional Services	2.171	2.184	0.013
Repair Services	0.453	1.815	1.362
Insurance	0.485	0.530	0.045
Operating Capital	0.134	0.071	(0.063)
Contingency	0.000	0.000	0.000
Grants	0.000	0.000	0.000
CIP and Development Reimbursement Labor Offsets	(2.164)	(2.340)	(0.176)
Total Operating Expenses	**$ 25.011**	**$ 26.453**	**$ 1.442**

Salaries are similar to the same period last year due to timing of payrolls in 2020 and 2021. The increase in benefits in 2021 is related to cost increase for the annual bump in the PERS Unfunded Actuarial Liability (UAL) contribution in 2021. Professional service costs and repair service costs in 2021 are higher compared to 2020 and are related to the tank recoating project in water operations.

District Cash Balances: Table 7 below reflects the dollar change in cash balances from the end of 2020 to the end of the second quarter of 2021.

Table 7
Cash Balance
(in millions)

	12/31/20	6/30/21	Change
Total	**$130.5**	**$121.9**	**($8.6)**
Unrestricted	$0.1	($11.2)	($11.3)
Reserved (Board defined)	37.1	37.1	0.0
Restricted	93.3	96.0	2.7
Total	**$130.5**	**$121.9**	**($8.6)**

2021-2025 Financial Forecast: Table 8 shows the adopted 5-year forecast as presented in November 2020 and a revised 2021 forecast. With the reduction in power revenues projected for 2021 related to the new power purchase agreement it is currently forecasted that power revenues for 2021 will be lower by $4.4 million from the originally adopted budget of $7.0 million last November. As an offset to the power revenue loss staff now projects water revenue to be approximately $2.4 million higher and recycled water sales to be higher by about $400,000 than originally forecasted.

Besides the obvious impact to net projected revenues the District's anticipated debt coverage will decrease slightly from the originally projected 2.33x down to 2.23x.

Table 8
2021-2025 Financial Forecast

Total District	Adopted 2021	Revised 2021	Projected 2022	Projected 2023	Projected 2024	Projected 2025
Total Debt Proceeds	-		-	-	-	75.0
Total Revenues	102.2	100.2	96.6	93.5	96.5	100.1
Total Maintenance and Operation Costs	57.0	57.0	58.8	60.5	62.3	63.6
Net Revenues	45.2	43.2	37.8	33.0	34.2	36.5
Pre-existing State Obligations	-	-	-	-	-	-
Net Revenues Available After Pre-existing Obligations	45.2	43.2	37.8	33.0	34.2	36.5
Senior Debt Service	19.4	19.4	15.0	15.0	15.0	20.4
Cash Available from Current Year Activities for Capital Projects or Other Improvements	25.8	23.8	22.8	18.0	19.2	91.1
Cash Balance - January 1	130.5	130.5	73.7	65.0	49.6	32.8
Total Cash Available for Capital Projects or Debt Pre-payment	156.3	154.3	96.5	83.0	68.8	123.9
Total CIP	(74.6)	(74.6)	(25.5)	(27.4)	(30.0)	(29.4)
Debt Reserve Paydown on New Debt	-	-	-	-	-	-
Pre-funding Debt	(6.0)	(6.0)	(6.0)	(6.0)	(6.0)	(6.0)
Other Receipts-Insurance, FEMA and OES	-	-	-	-	-	-
Cash Balance - December 31	75.7	73.7	65.0	49.6	32.8	88.5
Senior Debt Service Coverage (1.25x test)	2.33	2.23	2.52	2.20	2.28	1.79
Internal Senior Debt Coverage						
Total FCCs in Revenue Above	16.7	16.7	10.9	5.0	5.0	5.0
$$$ of FCCs Removed from Calculation	16.7	16.7	10.9	5.0	5.0	5.0
Internal Senior Debt Coverage (1.0x test)	1.47	1.36	1.79	1.87	1.95	1.54

Table 8 (con't)
2021-2025 Financial Forecast

Water Utility Only	Adopted 2021	Revised 2021	Projected 2022	Projected 2023	Projected 2024	Projected 2025
Total Debt Proceeds	-	-	-	-	-	75.0
Total Revenues	65.8	63.8	62.3	61.2	63.5	65.9
Total Maintenance and Operation Costs	37.1	37.1	38.1	39.2	40.4	41.2
Net Revenues	28.7	26.7	24.2	21.9	23.1	24.7
Pre-existing State Obligations	-	-	-	-	-	-
Net Revenues Available After Pre-existing Obligations	28.7	26.7	24.2	21.9	23.1	24.7
Senior Debt Service	14.0	14.0	11.5	11.5	11.4	17.0
Cash Available from Current Year Activities for Capital Projects or Other Improvements	14.7	12.7	12.7	10.4	11.7	82.7
Cash Balance - January 1	89.1	89.1	32.0	22.2	9.3	(0.9)
Total Cash Available for Capital Projects or Debt Pre-payment	103.9	101.9	44.7	32.6	20.9	81.8
Total CIP	(66.7)	(66.7)	(19.3)	(20.2)	(18.7)	(19.6)
Debt Reserve Paydown on New Debt						
Pre-funding Debt	(3.2)	(3.2)	(3.2)	(3.2)	(3.2)	(3.2)
Other Receipts-Insurance, FEMA and OES	-	-	-	-	-	-
Cash Balance - December 31	34.0	32.0	22.2	9.3	(0.9)	59.0
Senior Debt Service Coverage (1.25x test)	2.06	1.91	2.11	1.90	2.02	1.45
Internal Senior Debt Coverage						
Total FCCs in Revenue Above	9.84	9.84	6.25	2.95	2.95	2.95
$$$ of FCCs Removed from Calculation	9.84	9.84	6.25	2.95	2.95	2.95
Internal Senior Debt Coverage (1.0x test)	1.35	1.21	1.56	1.65	1.76	1.28

Table 8 (con't)
2021-2025 Financial Forecast

Wastewater Utility Only	Adopted 2021	Revised 2021	Projected 2022	Projected 2023	Projected 2024	Projected 2025
Total Debt Proceeds	-	-	-	-	-	-
Total Revenues	36.3	36.4	34.3	32.4	33.0	34.1
Total Maintenance and Operation Costs	19.9	19.9	20.7	21.3	21.9	22.4
Net Revenues	16.5	16.5	13.7	11.1	11.1	11.8
Pre-existing State Obligations	-	-	-	-	-	-
Net Revenues Available After Pre-existing Obligations	16.5	16.5	13.7	11.1	11.1	11.8
Senior Debt Service	5.4	5.4	3.5	3.5	3.5	3.4
Cash Available from Current Year Activities for Capital Projects or Other Improvements	11.1	11.1	10.1	7.5	7.6	8.3
Cash Balance - January 1	41.4	41.4	41.8	42.9	40.4	33.8
Total Cash Available for Capital Projects or Debt Pre-payment	52.5	52.5	51.9	50.4	47.9	42.1
Total CIP	(7.9)	(7.9)	(6.2)	(7.2)	(11.3)	(9.8)
Debt Reserve Paydown on New Debt						
Pre-funding Debt	(2.8)	(2.8)	(2.8)	(2.8)	(2.8)	(2.8)
Other Receipts-Insurance, FEMA and OES	-	-	-	-	-	-
Cash Balance - December 31	41.7	41.8	42.9	40.4	33.8	29.5
Senior Debt Service Coverage (1.25x test)	3.05	3.06	3.87	3.14	3.14	3.43
Internal Senior Debt Coverage						
Total FCCs in Revenue Above	6.88	6.88	4.65	2.05	2.05	2.05
$$$ of FCCs Removed from Calculation	6.88	6.88	4.65	2.05	2.05	2.05
Internal Senior Debt Coverage (1.0x test)	1.78	1.79	2.56	2.56	2.56	2.83

BOARD OPTIONS
No action – Information only.

RECOMMENDATION
No action – Information only.

ATTACHMENTS
None

Mark Price
Finance Director

Jim Abercrombie
General Manager

June 30, 2021 Financial Update

El Dorado Irrigation District

September 13, 2021

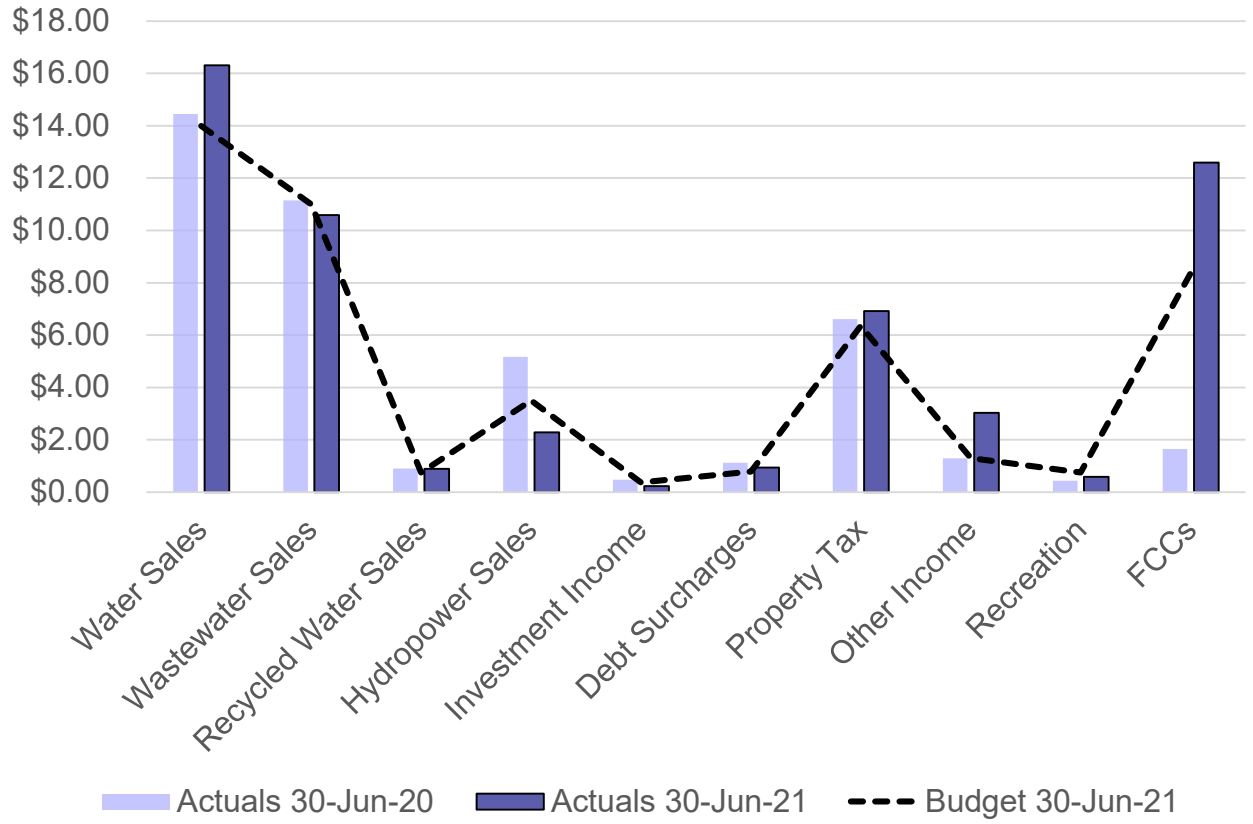
2021

2nd Quarter Financial Update

Total District Revenues by Category
(in millions)

Revenue Category	2020			2021		
	6 Months Adopted Budget	June 30 Revenues	Variance Over / (Under)	6 Months Adopted Budget	June 30 Revenues	Variance Over / (Under)
Water Sales and Services	$ 13.267	$ 14.450	$ 1.183	$ 13.986	$ 16.305	$ 2.319
Wastewater Sales and Services	10.796	11.146	0.350	10.994	10.590	(0.404)
Recycled Water Sales	0.709	0.900	0.191	0.751	0.895	0.144
Hydropower Sales	4.000	5.170	1.170	3.500	2.279	(1.221)
Investment Income	0.375	0.479	0.104	0.375	0.226	(0.149)
Debt Surcharges	1.215	1.127	(0.088)	0.792	0.939	0.147
Property Tax	6.226	6.615	0.389	6.351	6.921	0.570
Other Income	1.387	1.291	(0.096)	1.294	3.031	1.737
Recreation	0.734	0.432	(0.302)	0.749	0.581	(0.168)
Subtotal	**38.709**	**41.610**	**2.901**	**38.792**	**41.767**	**2.975**
FCCs	9.389	1.651	(7.738)	8.362	12.596	4.234
Total Revenues	**$ 48.098**	**$ 43.261**	**$ (4.837)**	**$ 47.154**	**$ 54.363**	**$ 7.209**

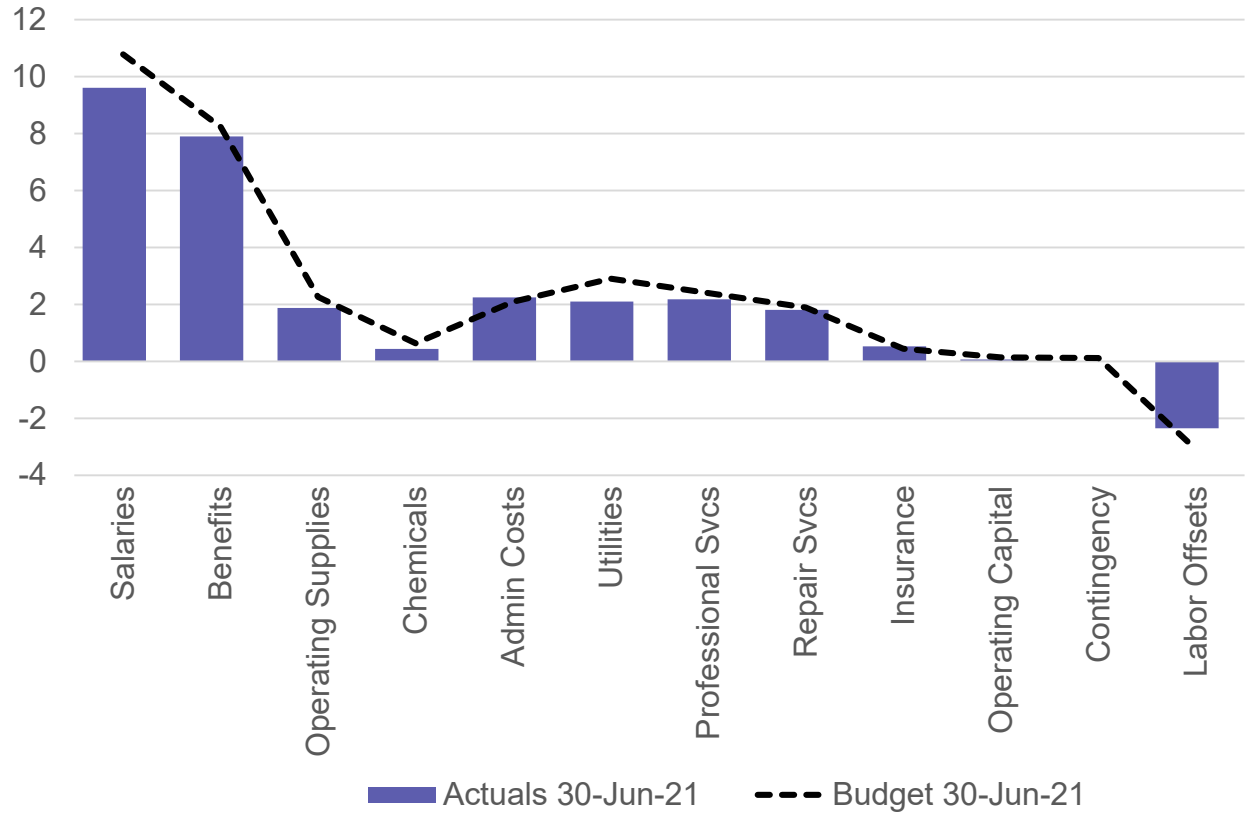
Total District Revenues by Category
(in millions)



Budget to Actual Operating Expenses by Category
(in millions)

Operating Expense Category	2021		
	6 Months Adopted Budget	June 30 Expenses	Over / (Under)
Salaries	$ 10.778	$ 9.606	$ (1.172)
Benefits	8.229	7.898	(0.331)
Materials and Supplies			
Operating Supplies	2.263	1.885	(0.378)
Chemicals	0.643	0.447	(0.196)
Administrative Costs	2.098	2.250	0.152
Utilities	2.913	2.107	(0.806)
Professional Services	2.405	2.184	(0.221)
Repair Services	1.893	1.815	(0.078)
Insurance	0.448	0.530	0.082
Operating Capital	0.149	0.071	(0.078)
Contingency	0.125	0.000	(0.125)
Labor Offsets	(3.080)	(2.340)	0.740
Total Operating Expenses	**$ 28.864**	**$ 26.453**	**$ (2.411)**

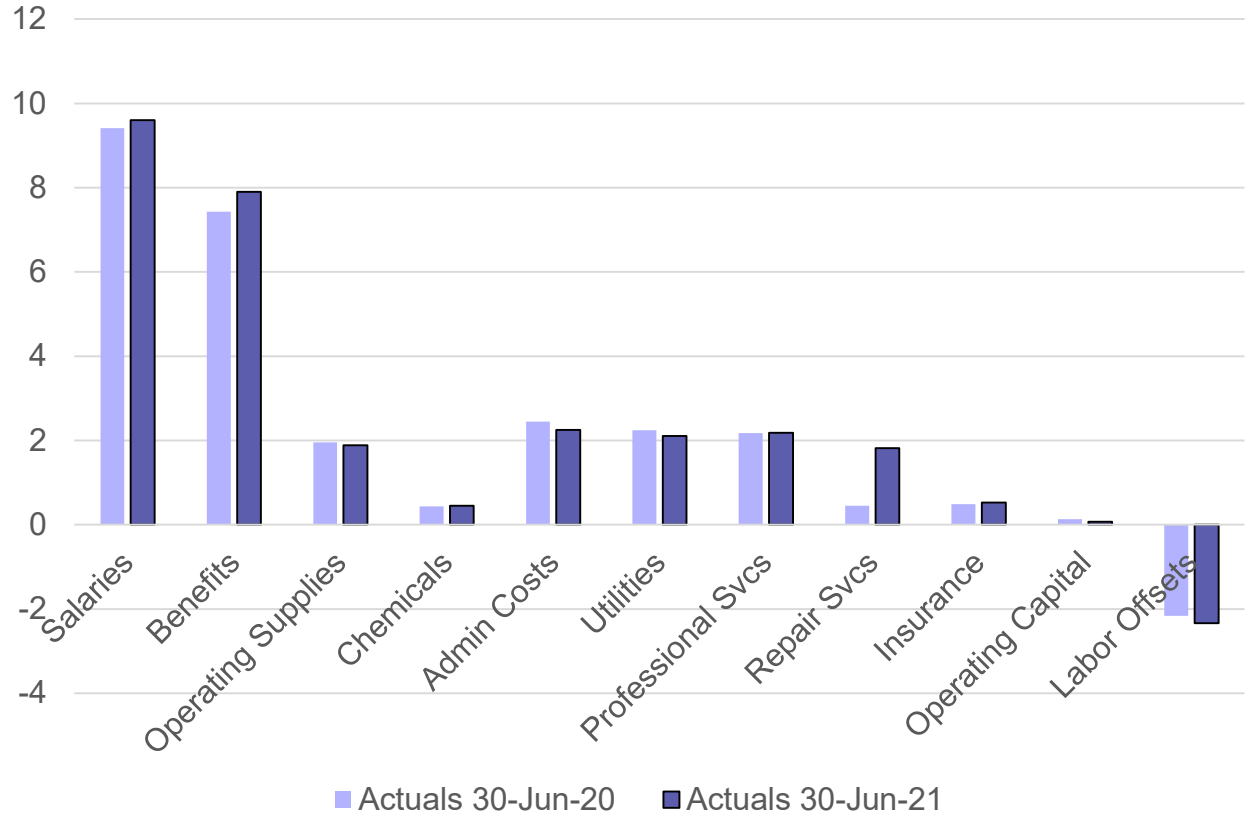
Budget to Actual Operating Expenses by Category
(in millions)



Comparative Operating Expenses by Category
(in millions)

Operating Expense Category	2020	2021	Variance
	June 30 Expenses	June 30 Expenses	Increase / (Decrease)
Salaries	$ 9.416	$ 9.606	$ 0.190
Benefits	7.428	7.898	0.470
Materials and Supplies			
Operating Supplies	1.956	1.885	(0.071)
Chemicals	0.437	0.447	0.010
Administrative Costs	2.452	2.250	(0.202)
Utilities	2.243	2.107	(0.136)
Professional Services	2.171	2.184	0.013
Repair Services	0.453	1.815	1.362
Insurance	0.485	0.530	0.045
Operating Capital	0.134	0.071	(0.063)
Contingency	0.000	0.000	0.000
Grants	0.000	0.000	0.000
CIP and Development Reimbursement Labor Offsets	(2.164)	(2.340)	(0.176)
Total Operating Expenses	**$ 25.011**	**$ 26.453**	**$ 1.442**

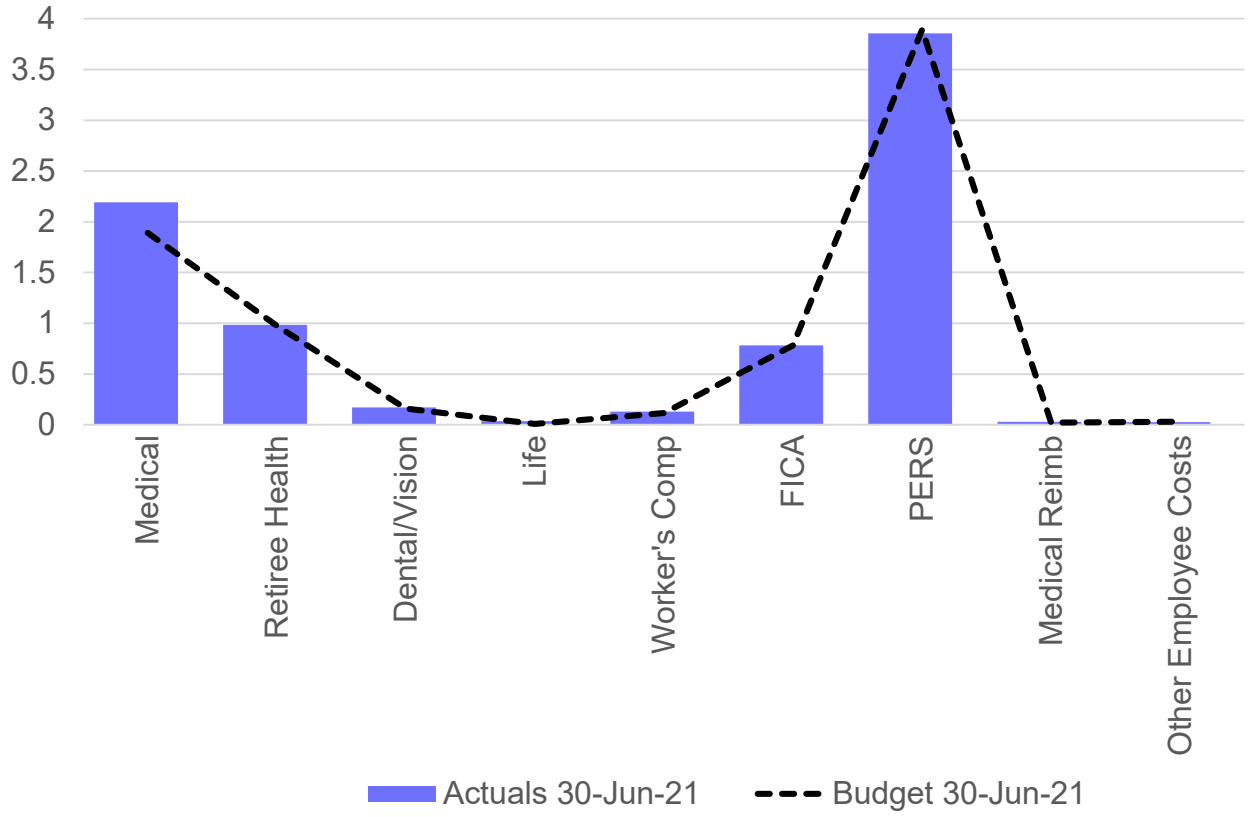
Comparative Operating Expenses by Category
(in millions)



Budget to Actual Employee Benefits by Category
(in millions)

Benefits Expense Type	2021		% of Budget
	6 Months Adopted Budget	June 30 Expenses	
Medical	$ 2.192	$ 1.890	86.2%
Retiree Health	0.986	0.978	99.2%
Dental/Vision	0.170	0.159	93.5%
EAP	0.004	0.000	0.0%
Life	0.036	0.009	25.0%
Workers' Compensation	0.130	0.115	88.5%
FICA	0.782	0.782	100.0%
PERS	3.855	3.893	101.0%
Medical Reimbursement	0.030	0.022	73.3%
Vehicle Allowance	0.018	0.018	100.0%
Other Employee Costs	0.026	0.032	123.1%
Total Benefits Expense	**$ 8.229**	**$ 7.898**	**96.0%**

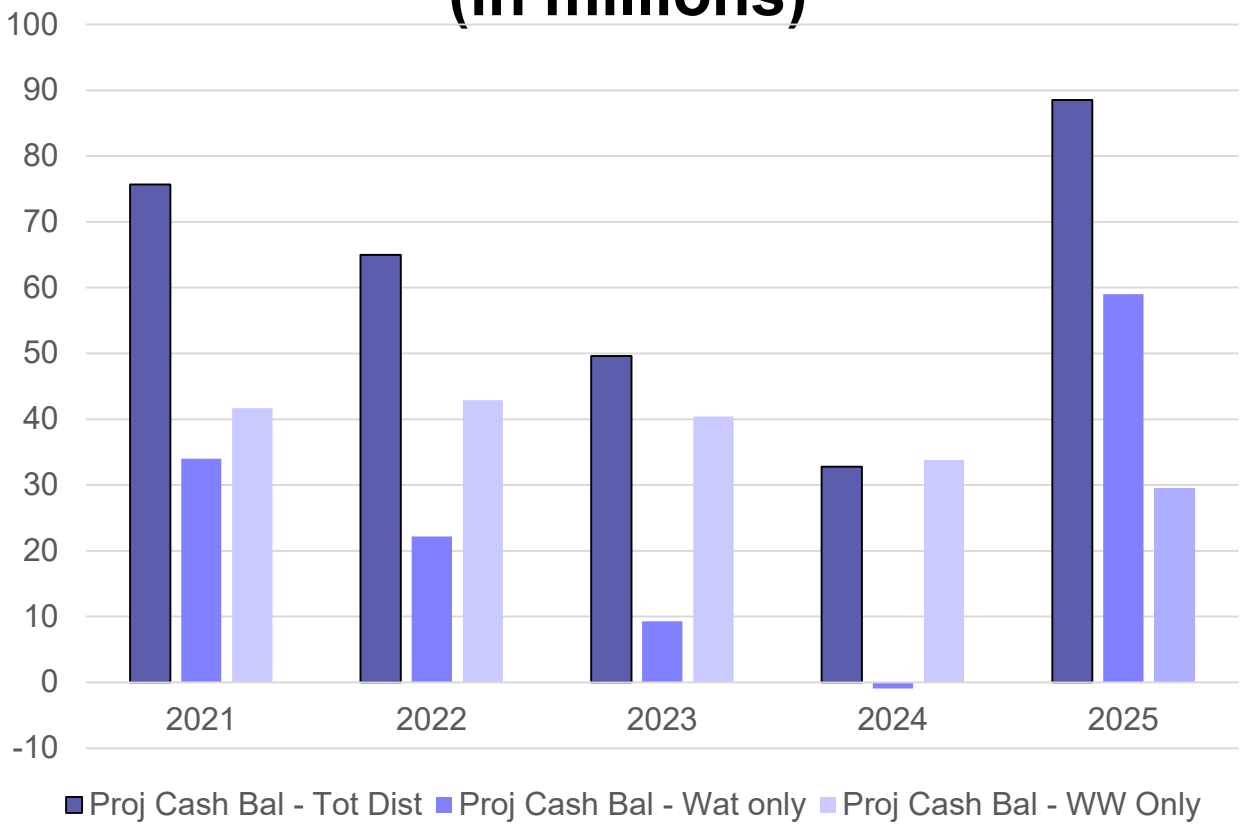
Budget to Actual Employee Benefits by Category
(in millions)



2021-2025 Financial Forecast

Total District	Adopted 2021	Revised 2021	Projected 2022	Projected 2023	Projected 2024	Projected 2025
Total Debt Proceeds	-		-	-	-	75.0
Total Revenues	102.2	100.2	96.6	93.5	96.5	100.1
Total Maintenance and Operation Costs	57.0	57.0	58.8	60.5	62.3	63.6
Net Revenues	45.2	43.2	37.8	33.0	34.2	36.5
Pre-existing State Obligations	-	-	-	-	-	-
Net Revenues Available After Pre-existing Obligations	45.2	43.2	37.8	33.0	34.2	36.5
Senior Debt Service	19.4	19.4	15.0	15.0	15.0	20.4
Cash Available from Current Year Activities for Capital Projects or Other Improvements	25.8	23.8	22.8	18.0	19.2	91.1
Cash Balance - January 1	130.5	130.5	73.7	65.0	49.6	32.8
Total Cash Available for Capital Projects or Debt Pre-payment	156.3	154.3	96.5	83.0	68.8	123.9
Total CIP	(74.6)	(74.6)	(25.5)	(27.4)	(30.0)	(29.4)
Debt Reserve Paydown on New Debt	-	-	-	-	-	-
Pre-funding Debt	(6.0)	(6.0)	(6.0)	(6.0)	(6.0)	(6.0)
Other Receipts-Insurance, FEMA and OES	-	-	-	-	-	-
Cash Balance - December 31	75.7	73.7	65.0	49.6	32.8	88.5
Senior Debt Service Coverage (1.25x test)	2.33	2.23	2.52	2.20	2.28	1.79
Internal Senior Debt Coverage						
Total FCCs in Revenue Above	16.7	16.7	10.9	5.0	5.0	5.0
$$$ of FCCs Removed from Calculation	16.7	16.7	10.9	5.0	5.0	5.0
Internal Senior Debt Coverage (1.0x test)	1.47	1.36	1.79	1.87	1.95	1.54

Projected Cash Balances
(in millions)



2021-2025 Financial Forecast

Water Utility Only	Adopted 2021	Revised 2021	Projected 2022	Projected 2023	Projected 2024	Projected 2025
Total Debt Proceeds	-	-	-	-	-	75.0
Total Revenues	65.8	63.8	62.3	61.2	63.5	65.9
Total Maintenance and Operation Costs	37.1	37.1	38.1	39.2	40.4	41.2
Net Revenues	28.7	26.7	24.2	21.9	23.1	24.7
Pre-existing State Obligations	-	-	-	-	-	-
Net Revenues Available After Pre-existing Obligations	28.7	26.7	24.2	21.9	23.1	24.7
Senior Debt Service	14.0	14.0	11.5	11.5	11.4	17.0
Cash Available from Current Year Activities for Capital Projects or Other Improvements	14.7	12.7	12.7	10.4	11.7	82.7
Cash Balance - January 1	89.1	89.1	32.0	22.2	9.3	(0.9)
Total Cash Available for Capital Projects or Debt Pre-payment	103.9	101.9	44.7	32.6	20.9	81.8
Total CIP	(66.7)	(66.7)	(19.3)	(20.2)	(18.7)	(19.6)
Debt Reserve Paydown on New Debt						
Pre-funding Debt	(3.2)	(3.2)	(3.2)	(3.2)	(3.2)	(3.2)
Other Receipts-Insurance, FEMA and OES	-	-	-	-	-	-
Cash Balance - December 31	34.0	32.0	22.2	9.3	(0.9)	59.0
Senior Debt Service Coverage (1.25x test)	2.06	1.91	2.11	1.90	2.02	1.45
Internal Senior Debt Coverage						
Total FCCs in Revenue Above	9.84	9.84	6.25	2.95	2.95	2.95
$$$ of FCCs Removed from Calculation	9.84	9.84	6.25	2.95	2.95	2.95
Internal Senior Debt Coverage (1.0x test)	1.35	1.21	1.56	1.65	1.76	1.28

2021-2025 Financial Forecast

Wastewater Utility Only	Adopted 2021	Revised 2021	Projected 2022	Projected 2023	Projected 2024	Projected 2025
Total Debt Proceeds	-	-	-	-	-	-
Total Revenues	36.3	36.4	34.3	32.4	33.0	34.1
Total Maintenance and Operation Costs	19.9	19.9	20.7	21.3	21.9	22.4
Net Revenues	16.5	16.5	13.7	11.1	11.1	11.8
Pre-existing State Obligations	-	-	-	-	-	-
Net Revenues Available After Pre-existing Obligations	16.5	16.5	13.7	11.1	11.1	11.8
Senior Debt Service	5.4	5.4	3.5	3.5	3.5	3.4
Cash Available from Current Year Activities for Capital Projects or Other Improvements	11.1	11.1	10.1	7.5	7.6	8.3
Cash Balance - January 1	41.4	41.4	41.8	42.9	40.4	33.8
Total Cash Available for Capital Projects or Debt Pre-payment	52.5	52.5	51.9	50.4	47.9	42.1
Total CIP	(7.9)	(7.9)	(6.2)	(7.2)	(11.3)	(9.8)
Debt Reserve Paydown on New Debt						
Pre-funding Debt	(2.8)	(2.8)	(2.8)	(2.8)	(2.8)	(2.8)
Other Receipts-Insurance, FEMA and OES	-	-	-	-	-	-
Cash Balance - December 31	41.7	41.8	42.9	40.4	33.8	29.5
Senior Debt Service Coverage (1.25x test)	3.05	3.06	3.87	3.14	3.14	3.43
Internal Senior Debt Coverage						
Total FCCs in Revenue Above	6.88	6.88	4.65	2.05	2.05	2.05
$$$ of FCCs Removed from Calculation	6.88	6.88	4.65	2.05	2.05	2.05
Internal Senior Debt Coverage (1.0x test)	1.78	1.79	2.56	2.56	2.56	2.83

Board Options

No Board Action Required

Information Only

Discussion / Questions

EL DORADO IRRIGATION DISTRICT

SUBJECT: Consider ratifying EID General Warrant Registers for the periods ending August 17, August 24, and August 31, 2021, 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
August 17, 2021	691994 – 692130	$1,127,495.04
August 24, 2021	692131 – 692175	$201,969.57
August 31, 2021	692176 – 692372	$2,023,437.92

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

Tony Pasquarello
Finance Manager

Mark Price
Finance Director

Jennifer Sullivan
Clerk to the Board

Jim Abercrombie
General Manager

Executive Summary for August 17, 2021 -- $1,127,495.04:

This summary highlights significant disbursements made by major business activity:

General District Operations (Fund 110)

- $18,136—Best Contracting Services, Inc. for release of retention held on project 16046.01 Powerhouse Roof
- $5,168—California Employment Development Department for second quarter 2021 unemployment
- $18,884—Dataprose, LLC for June 2021 billing services
- $17,516—Ferguson Enterprises for warehouse inventory
- $3,690—Granite Construction for a credit balance refund on customer account
- $4,000—Holt of California for an electronic modulator
- $9,450—Iconix Waterworks (US), Inc. for warehouse inventory
- $94,792—Infor Public Sector, Inc. for Hansen software annual maintenance
- $4,995—J & C Automotive for transmission repair service and parts
- $4,062—Life Insurance Company of North America for August 2021 life insurance premiums

Engineering Operations (Fund 210)

- $7,078—All Pro Backflow for annual backflow testing

Water Operations (Fund 310)

- $32,775—Advanced Industrial Services, Inc. for Reservoirs 2 and 2A recoating ($34,500). Retention held $1,725
- $8,808—Macauley Construction, Inc. for asphalt patch paving
- $3,504—Olin Chlor Alkali Products for sodium hypochlorite at Reservoir 1
- $3,447—Trench Plate Rental Company for K-rail rental
- $4,655—Univar Solutions USA, Inc. for sodium hydroxide at Reservoir A
- $4,834—Watershed, LLC for rain gear and warranty repairs

Wastewater Operations (Fund 410)

- $3,620—BSK Associates for regulatory lab testing
- $4,492—CLS Labs for regulatory lab testing
- $8,064—Ferguson Enterprises, LLC for pipe patch kits and flanges
- $4,478—Roberson-Bryan, Inc. for regulatory permitting
- $3,243—VEGA Americas, Inc. for controller displays and sensors

Recycled Water Operations (Fund 510)

- $5,473—Univar Solutions USA, Inc. for sodium hydroxide at EDHWWTP

Hydroelectric Operations (Fund 610)

- $4,285—Hydraulic Power Sales, Inc. for gear pumps

Recreation Operations (Fund 710)

- $3,720—Carsten Tree Service for tree removal at Silver Lake

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

- $16,170—A T.E.E.M. Electrical Engineering, Inc. for engineering services – Camino Intertie Pressure Reducing Station #1 (Project #20016.01)
- $184,991—Big Valley Electric for construction services ($194,727). Retention held $9,736:
  >Project #18048.05 – Critical Water Facility Generators – Moose Hall Generator ($97,227)
  >Project #18048.06 – Critical Water Facility Generators – Monte Vista Generator ($7,500)
  >Project #18048.07 – Critical Water Facility Generators – Gold Ridge Generator ($5,000)
  >Project #18048.08 – Critical Water Facility Generators – Reservoir 2 Generator ($85,000)
- $6,186—EN2 Resources, Inc. for consulting services – FERC:C44 Noxious Weed Implementation (Project #08025H.01)
- $23,480—Gannett Fleming, Inc. for geotechnical investigations – Flume 48 Replacement (Project #17028.01)
- $8,169—Hastie's Capitol Sand and Gravel Company for rock deliveries – Water Service Line Replacement (Project #21002.01)
- $20,439—Herwit Engineering for engineering design services:
  >Project #17033.01 – DCWWTP Process Control Design ($13,778)
  >Project #21006.01 – EDHWWTP Anoxic Mixing Box Improvements ($4,566)
  >Project #18063.01 – EDHWWTP Solar Inverters ($2,095)
- $16,432—Industrial Water Solutions for a pressure reducing valve – El Dorado Main #1 Pressure Reducing Station #18 (Project #21024.01)
- $14,040—JLR Environmental Consulting, LLC for construction inspection services – Outingdale Water Intake Replacement (Project #16048.01)
- $281,993—K. W. Emerson, Inc. for construction services ($296,835) – Flume 38-40 Canal Conversion (Project #16022.01). Retention held $14,842
- $12,858—Kleinfelder, Inc. for consulting services – FERC:C37.3 Amphibian Monitoring (Project #06089H.01)
- $3,148—Luhdorff and Scalmanini Consulting Engineers, Inc. for engineering design services – Outingdale Water Intake Replacement (Project #16048.01)
- $174,540—Macauley Construction, Inc. for lift station encroachment paving – Water Service Line Replacement (Project #21002.01)
- $3,419—Ryan Herco Products Corporation for filters and filter housings – Strawberry Self Cleaning Screens (Project #19019.01)
- $3,600—Sacramento Rebar, Inc. for abutments – 4 Beat Bridge Access (Project #21035.01)
- $4,261—Trench Plate Rental Company for pump and trench plate rentals – Water Service Line Replacement (Project #21002.01)

Executive Summary for August 24, 2021 -- $201,969.57:

This summary highlights significant disbursements made by major business activity:

Development Services (Fund 105)

- $6,188—ICM Group, Inc. for construction inspection services

General District Operations (Fund 110)

- $51,787—Iconix Waterworks (US), Inc. for warehouse inventory
- $3,399—Ron Dupratt Ford engine cooler repair service
- $5,006—Thompson's Auto & Truck Center, Inc. for transmission repair service

Engineering Operations (Fund 210) none to report

Water Operations (Fund 310)

- $3,699—Olin Chlor Alkali Products for sodium hypochlorite at Reservoir A

Wastewater Operations (Fund 410)

- $8,990—Lhoist North America of Arizona, Inc. for quicklime DCWWTP

Recycled Water Operations (Fund 510)

- $3,869—Olin Chlor Alkali Products for sodium hypochlorite at EDHWWTP

Hydroelectric Operations (Fund 610)

- $8,041—Kisters North America for annual software maintenance

Recreation Operations (Fund 710)

- $4,781—Aces Waste Services, Inc. for trash disposal service
- $31,986—Blue Ribbon Personnel Services for temporary labor at Sly Park Recreation

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

- $7,516—Cardno, Inc. for design plans and specifications – FERC:C38.4B Caples Lake Stabilization (Project #0676H.01)
- $6,981—GHD, Inc. for engineering and design services – 2020 Canal Release Point Study (Project #STUDY11.01)
- $11,020—ICM Group, Inc. for construction inspection services:
  >Project #17033.01 – DCWWTP Process Control Design ($6,815)
  >Project #16030.01 – Solar Assessment and Design ($4,205)
- $8,513—MGE Engineering, Inc. for design services – Flume 45 Abutment Replacement (Project #17025.01)
- $10,039—Water Works Engineers, LLC for engineering services – Deer Creek Collection System Modeling (Project #STUDY16.01)

Executive Summary for August 31, 2021 -- $2,023,437.92:

This summary highlights significant disbursements made by major business activity:

General District Operations (Fund 110)

- $41,664—Banner Bank for retention held for Steve P. Rados, Inc.
- $3,501—Double B Demolition, Inc. for a credit balance refund on customer account
- $35,395—Hunt & Sons, Inc. for card lock fuel and fuel deliveries at various locations
- $17,575—PG&E for electric service
- $3,457—Ron Dupratt Ford for vehicle maintenance and repair supplies
- $10,414—Sierra Nevada Tire and Wheel for tires and flat repairs
- $8,089—Underground Service Alert for annual membership renewal

Engineering Operations (Fund 210)

- $5,415—All Pro Backflow, Inc. for backflow testing services

Water Operations (Fund 310)

- $6,199—El Dorado Water & Shower Services, Inc. for water deliveries at Outingdale
- $10,411—GEI Consultants, Inc. for dam engineering services and vegetation management surveys
- $3,081—Hunt & Sons, Inc. for diesel fuel
- $13,527—John Crane, Inc. for seal assembly cartridges
- $232,235—PG&E for electric service
- $41,022—Sterling Water Technologies, LLC for orthophosphate at Reservoir A
- $53,869—U.S. Bureau of Reclamation for Sly Park restoration fees and Folsom water deliveries
- $4,643—Univar Solutions USA, Inc. for sodium hydroxide at Reservoir A
- $7,779—Walker's Office Supplies, Inc. for computer workstations

Wastewater Operations (Fund 410)

- $3,152—Airrex, USA for a portable dehumidifier
- $4,421—Carollo Engineers, Inc. for EDHWWTP bio filter assessment
- $4,207—CLS Labs for regulatory lab testing
- $15,620—Foothill Tree Service for DCWWTP fuels reduction
- $12,104—Hunt & Sons, Inc. for generator diesel fuel
- $5,016—Mallory Safety and Supply, LLC for gloves and equipment inspection services
- $161,677—PG&E for electric service
- $5,601—Suez Treatment Solutions, Inc. for 20 ballasts
- $37,249—Synagro West, LLC for sludge hauling and disposal at EDHWWTP and DCWWTP

Recycled Water Operations (Fund 510)

- $36,511—PG&E for electric service

Hydroelectric Operations (Fund 610)

- $7,613—Black & Veatch Corporation for mandatory field exercise between SMUD and the District
- $3,695—Dell Marketing, LP for a laptop computer
- $5,596—PG&E for electric service

Recreation Operations (Fund 710)

- $47,303—Blue Ribbon Personnel Services for temporary labor at Sly Park Recreation
- $16,500—El Dorado Disposal Service, Inc. for trash disposal at Sly Park Recreation

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

- $4,725—BT Consulting, Inc. for on-call services:
  >Project #15024.01 – Folsom Lake Intake Improvement ($1,700)
  >Project #17041.01 – Flume 30 Rehabilitation Project ($300)
  >Project #16022.01 – Flume 38-40 Canal Conversion ($1,500)
  >Project #11032.01 – Main Ditch-Forebay to Reservoir 1 ($1,225)
- $72,685—Carollo Engineers, Inc. for inspection services (Project #15024.01)
- $4,181—Clipper Controls, Inc. for a magmeter (Project #20016.02)
- $8,767—Doug Veerkamp General Engineering, Inc. for construction services – Reservoir A Tesla Battery Site (Project #21019.03)
- $5,575—Frank A. Olsen Company for pressure reducing valves – Braden Court Pressure Reducing Station #1 Upgrade (Project #21034.01)
- $22,757—Gannett Fleming, Inc. for geotechnical investigations – Flume 48 Replacement (Project #17028.01)
- $10,523—GEI Consultants, Inc. for biological resources surveys:
  >Project #17025.01 – Flume 45 Abutment Replacement ($5,997)
  >Project #21013.01 – Flumes 45A, 46A, 47A, and 47B Rehabilitation Design ($4,526)
- $45,329—GHD, Inc. for engineering and design services:
  >Project #17041.01 – Flume 30 Rehabilitation Project ($1,201)
  >Project #16022.01 – Flume 38-40 Canal Conversion ($38,277)
  >Project #21008.01 – Diversion Facility Upgrades ($5,851)
- $87,535—MCK Americas, Inc. for construction management services – Main Ditch-Forebay to Reservoir 1 (Project #11032.01)
- $7,166—Peterson Brustad, Inc. for tank storage analysis – Reservoir 1 Tank Upgrade (Project #21030.01)
- $3,421—Pollock Pines True Value for roof cement – Flume 13 Relining (Project #21035.01)
- $7,588—Sell Lumber Corporation for treated lumber – 4 Beat Bridge Access (Project #21035.01)
- $791,623—Steve P. Rados, Inc. for construction services ($833,287) – Town Center Force Main Phase 3 (Project #19004.01). Retention held $41,664
- $15,630—Zanjero for consulting services – Permit 21112 Change in Point of Diversion (Project 16003.01)

Attachment B

Employee Expense Reimbursements
Warrant Registers dated 08/17/21 - 08/31/21

EMPLOYEE	DESCRIPTION	AMOUNT
Dan Stevenson	Travel Expenses for Network Replacement	$109.13
Jose Perez	Covid Tests for Four Employees	$796.00
Roy Forbes	Wastewater Treatment Plant Operator Exam Fee	$155.00
		$1,060.13

EL DORADO IRRIGATION DISTRICT

SUBJECT: Consider ratifying a time-and-materials construction contract to Syblon Reid Contractors in the not-to-exceed amount of $17,000,000 for the emergency replacement of Flumes 4, 5 and 6, and approve total project funding in the amount of $17,000,000; Project Nos. 21047, 21048, and 21049.

PREVIOUS BOARD ACTIONS

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

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

BP 2050 Administrative Leeway in the Absence of Policy
BP 3060 Contracts and Procurement
Public Contract Code sections 1102, 20567 and 22050 et. seq.
Public Resources Code section 21080(b) and California Environmental Quality Act ("CEQA") Guidelines section 15269

SUMMARY OF ISSUE

The Caldor Fire has threatened the District's ability to supply drinking water to its customers. Flumes 4, 5, and 6 of the El Dorado Canal, and a few days later Flume 30, were destroyed by the Caldor fire. Expedited replacement is needed to bring the El Dorado Canal back to full operation in order to capture winter and spring flow and help refill a drought-stricken Jenkinson Lake and resume consumptive deliveries to the Reservoir 1 water treatment plant in 2022.

On August 23, 2021 the Board adopted Resolution 2021-012 ratifying the General Manager's declaration of an emergency as a result of the Caldor Fire. District Administrative Regulation 3061.1, subdivision g, authorizes emergency procurements of supplies, equipment, services or construction items when there exists a threat to public health, welfare, or safety, and requires Board of Directors ratification of emergency procurements exceeding $100,000.

In addition, the Board must ratify any emergency actions taken by District staff pursuant to the delegations of authority contained in Resolution 2021-012. On September 8, 2021, the General Manager approved a time-and-materials construction contract with Syblon Reid Contractors (SRC), in the not-to-exceed amount of $17,000,000 to expedite the emergency replacement of Flumes 4, 5 and 6. Staff also continue to work with SRC to identify the most efficient means to construct Flume 30 during this fall considering the Board's award of the contract to SRC on August 23, 2021 anticipated the project to be completed over two years.

BACKGROUND/DISCUSSION

On or about August 26, 2021, the District learned that wooden Flumes 4, 5 and 6 were destroyed by the fire. These flumes are located on Beat 1 of the El Dorado Canal in areas where there is little to no road access for construction equipment. Flume 4 is approximately 400 feet in length and is comprised of both an elevated and on grade wooden flume. Flume 5 and Flume 6 downstream, also constructed of wood, are approximately 179 feet and 146 feet in length,

respectively, and both are on grade. Subsequently on September 1, 2021, the District also learned that Flume 30 on Beat 2 was also destroyed by the continued expansion of the fire as it advanced its way unabated through the upper South Fork American River watershed and eventually over Echo Summit into the South Lake Tahoe region.

SRC, who was recently awarded a construction contract to replace Flume 30 downstream, indicated they have additional manpower and resources immediately available to assist in the reconstruction efforts of Flumes 4, 5, and 6. SRC successfully completed extensive emergency work for the District resulting from the 2017 storm damage and has supported surrounding agencies with similar emergency repairs.

Following confirmation of the loss of the flumes the General Manager immediately authorized funding and two initial contracts less than $50,000 with GHD, one of the District's engineering consultants, and SRC to help the District respond and evaluate means to access and replace the destroyed Flumes 4, 5 and 6. Utilizing available mapping and an existing survey of the area, GHD identified improvements to existing roads and alignment of new roads as a way to access the three flumes with heavy construction equipment, which would significantly facilitate expedited replacement. The feasibility of the road alignment was confirmed by SRC during subsequent site visits. Based on these efforts and prior successful work history with SRC, staff continued forward with SRC for expedited replacement of the flumes.

SRC Single-Source Contract for Flume 4, 5 and 6 Replacement

To immediately begin the work to replace Flumes 4, 5 and 6, the General Manager approved a construction contract with SRC on September 8, 2021. The District is endeavoring to replace these flumes with concrete construction where feasible to provide additional longevity and resilience against future wildfire and slope instability caused by the Caldor Fire. Similar to the 2017 storm damage work, the contract is structured as a time-and-materials contract with a not-to-exceed amount of $17,000,000. This figure is based on preliminary cost estimates for flume replacement utilizing concrete and the extent of access road improvements necessary to access the three sites. Cost estimates will be refined as the scope of work is refined moving forward.

Given the current hydrologic conditions and projected carryover conditions in Jenkinson Lake, the District is requiring substantial completion of Flumes 4, 5 and 6 to convey water by December 17, 2021. SRC began mobilizing to the area on Thursday, September 9 to begin road improvements to access the Flume 4, 5 and 6 sites.

AR 3061.05 allows procurement of goods or services from a single source for good cause and when authorized by law. Good cause for single-sourcing may include, for example, when there is only one available source for a necessary good or service, a prospective consultant or vendor possesses unique skills and expertise necessary for a particular procurement, or emergency or extraordinary circumstances require immediate action that cannot be delayed for obtaining bids or proposals.

In this circumstance, the emergency canal outage requires immediate action that cannot be delayed for obtaining bids. Additionally, SRC possesses unique skills and expertise to build the access road and replace the flumes. SRC has an extensive proven track record of similar projects related to slope stabilization, flume, and canal replacements for EID, PG&E, PCWA, NID, SMUD and Southern California Edison. SRC has equipment and personnel immediately available, and will again utilize their most experienced project superintendent, Paul Harlow. Mr. Harlow successfully worked on Flume 42/43, Camp 2 Bridge, and the 2017 storm damage to the canal downstream of Flume 10, working cohesively with GHD's geotechnical expert and design

leader, Dave Jermstad, and District staff. SRC has also previously assisted the District in unusual circumstances for the 2006 emergency slide repairs at the El Dorado powerhouse road, and the 2008 emergency repairs of the Caples Lake and Silver Lake outlet works.

Engineering staff are directing the work and will track expenditures daily. District staff and our expert consulting team will be on-site overseeing all work conducted by the contractor and assuring that work is efficiently planned and carried out by the contractor.

GHD Contract

While SRC begins working on access road improvements to the site, GHD will be assisting the District in design tasks for the flume replacement projects. Design issues that need to be addressed include flume replacement methods with either cast-in-place concrete, pre-cast concrete, and MSE wall construction or design of an elevated steel structure for the Flume 4 elevated section. Given the anticipated timing of this effort following the September 13 Board meeting, the Board will be asked to ratify a subsequent design contract with GHD at a future meeting when a scope of work is negotiated.

Flume 30 Replacement

As mentioned, on August 23, 2021 the Board approved a construction contract with SRC to replace Flume 30 in the not-to-exceed amount of $8,782,400. The contract called for a two season, two phase project with access road improvements to be conducted in 2021, followed by replacement of Flume 30 in 2022. Now that Flume 30 has been destroyed by the fire, the timeline for replacement of Flume 30 must be accelerated into a single phase and be completed as quickly as possible.

The scope of Flume 30 access road improvements and flume replacement are extensive, which in part was the reason for the two-phased approach staff previously brought to the Board. However, staff will be developing amendments to the scope of the Flume 30 SRC and GHD contracts in order to expedite the Flume 30 replacement. Depending on the reconstruction timeline, a bypass pipe option may be an alternative considered to allow the District to flow water past Flume 30 and capture winter/spring flow to refill Jenkinson Lake and resume consumptive delivery to Reservoir 1 water treatment plant. Staff will be working with SRC and GHD to amend their existing contracts in order to effectuate changes in the design scope and completion dates, and will bring those amendments for Board ratification or approval as necessary.

Other related work

Flume replacement will be the largest and most costly effort to restore that portion of our water supply system, however there are many other areas of damage and mitigation efforts that will be needed to respond to the fire. A high priority is to address hazard trees adjacent to our facilities that were burned by the fire and are now susceptible to falling and further damaging our canals, flumes, pipelines and intake structures. Staff has been identifying and mapping hazard trees that must be removed within the footprint of the fire that threaten our infrastructure, and a contract with a tree faller will be pursued as soon as possible to address hazard tree removal. Staff will provide an overview of the other areas of damage and concern during the September 13 Board meeting

FUNDING

Staff is requesting total funding in the amount of $17,000,000 for the Flume 4, 5 and 6 replacement projects. Funding will be allocated between the three flume projects based on the estimated cost for each. Staff held site visits to survey the damage with our ACWA-JPIA insurance carrier, CalOES and FEMA the week of September 6 for potential reimbursement of these costs.

Environmental Review
Public Resources Code section 21080(b)(2) exempts from the California Environmental Quality Act (CEQA) emergency repairs to public service facilities necessary to maintain services. Additionally, Public Resources Code section 21080(b)(4) and CEQA Guidelines section 15269(c) exempt from CEQA specific actions necessary to prevent or mitigate an emergency. The Board's adoption of Resolution 2021-012 recognized these provisions and staff will file a Notice of Exemption with the El Dorado County Clerk-Recorder's Office to document this determination.

Staff continues to coordinate with resource agencies, as appropriate, regarding any applicable permits and authorizations necessary to effectuate the emergency repairs.

BOARD OPTIONS

Option 1: Ratify a time-and-materials construction contract to Syblon Reid Contractors in the not-to-exceed amount of $17,000,000 for the emergency replacement of Flumes 4, 5 and 6, and approve total project funding in the amount of $17,000,000; Project Nos. 21047, 21048, and 21049.

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

Option 3: Take no action.

RECOMMENDATION
Option 1

ATTACHMENTS
Attachment A: SRC construction contract

Brian Mueller
Engineering Director

Brian Deason
Environmental Resources Supervisor

Dan Corcoran
Operations Director

Mark Price
Finance Director

Brian Poulsen
General Counsel

Jim Abercrombie
General Manager

SECTION 00550

NOTICE TO PROCEED

Dated: September 8, 2021 N0921-299

To: Syblon Reid
Attn: Ryan Fox
Mailing Address: PO Box 100, Folsom, CA 95763
Phone No.: 916.351.0457
E-mail: ryanf@srco.com; gregc@srco.com

CONTRACT FOR:

FLUME 4, 5, & 6 REPLACEMENTS
CONTRACT NO. E21-07

PURCHASE ORDER NO.: 210989
PROJECT NOS: 21047.01 (F4) $9,379,310.34; 21048.01 (F5) $4,197,241.38; and 21049.01 (F6) $3,423,448.28
EID NOS.:340 0000 0000 52620; COST CATEGORY: CONO
CONTRACT DATE: 9/09/2021
BOARD RATIFICATION DATE: *Pending*
AUTHORIZED T&M AMOUNT (CONTRACT PRICE NTE): $17,000,000.00

You are notified that the Contract Time under the above Contract will commence to run on September 9, 2021. On that date, you are to start performing your obligations under the Contract Documents. In accordance with Article 3 of SECTION 00520 (Agreement), the dates of Substantial Completion and Final Completion for the entire Work are December 17, 2021 and September 1, 2022, respectively.

NOTES: One complete set of agreement documents is for your files and one set for your Surety. Please reference Purchase Order Number 210989 when invoicing and submit them to ContractInvoices@eid.org.

EL DORADO IRRIGATION DISTRICT

Name: Cary Mutschler

By: _____
Project Manager

Attachments: Signed Agreement (2)

c: Elizabeth Dawson, P.E., Engineering Manager
Elizabeth L. Leeper, Senior Deputy General Counsel
Brian M. Mueller, Director of Engineering
Daniel Newsom, Safety and Security Officer
Brian D. Poulsen Jr., General Counsel

END OF SECTION

SECTION 00520

AGREEMENT

THIS AGREEMENT, dated this 9th day of September, 2021, by and between SYBLON REID whose place of business is located at 1130 Sibley Street, Folsom, CA 95630 ("Contractor"), and the EL DORADO IRRIGATION DISTRICT ("District"), an irrigation special district organized and existing under the California Irrigation District Law (Water Code §20500, *et seq.*).

WHEREAS, District, has awarded to Contractor the following contract:

FLUME 4, 5, & 6 REPLACEMENTS
CONTRACT NO. E21-07

NOW, THEREFORE, in consideration of the mutual covenants hereinafter set forth, Contractor and District agree as follows:

Article 1. Work

1.1 Contractor shall complete all Work specified in the Contract Documents, in accordance with the Specifications, Drawings, and all other terms and conditions of the Contract Documents.

Article 2. District's Representative, Construction Manager

2.1 District has designated Cary Mutschler, Senior Civil Engineer, to act as District's Representative, who will represent District in performing District's duties and responsibilities and exercising District's rights and authorities in Contract Documents. District may change the individual(s) acting as District's Representative(s), or delegate one or more specific functions to one or more specific District's Representatives, including without limitation on general administrative functions, at any time with notice and without liability to Contractor. Each District's Representative is the beneficiary of all Contractor obligations to District, including without limitation, all releases and indemnities.

2.2 District has designated Cary Mutschler to act as Construction Manager. District may assign all or part of the District Representative's rights, responsibilities and duties to Construction Manager. District may change the identity of the Construction Manager at any time with notice and without liability to Contractor.

2.3 All notices or demands to District under the Contract Documents shall be in writing and directed to District's Representative at:

Cary Mutschler
cmutschler@eid.org

or to such other person(s) and address(es) as District shall provide to Contractor. Except as otherwise expressly provided herein, notices shall be dispatched by Email, facsimile transmission, overnight delivery and/or U.S. mail. Except as otherwise expressly provided herein, notices dispatched by Email, facsimile or overnight delivery shall be deemed received on the business day following dispatch. Notices dispatched by U.S. mail shall be deemed received on the third business day following dispatch.

Article 3. Contract Time

3.1 Contract Time.

3.1.1 Contractor shall commence Work at the Site on the date established in the Notice to Proceed. District reserves the right to modify or alter the Commencement Date of the Work.

3.1.2 Contractor shall achieve Substantial Completion of the portion of the Work when canal can convey water at full capacity by December 17, 2021.

3.1.3 Contractor shall achieve Final Completion of the portion of the Work by September 1, 2022.

3.2 Liquidated Damages.

N/A

Article 4. Contract Sum

4.1 District shall pay Contractor the T&M NTE Contract Sum for completion of Work in accordance with Contract Documents as follows:

Seventeen Million Dollars

(See Attached Exhibit A for T&M Rates)

Article 5. Contractor's Representations

In order to induce District to enter into this Agreement, Contractor makes the following representations and warranties:

5.1 (Not Used)

5.2 (Not Used)

5.3 (Not Used)

5.4 (Not Used)

5.5 (Not Used)

5.6 Contractor is duly organized, existing and in good standing under applicable state law, and is duly qualified to conduct business in the State of California.

5.7 Contractor has duly authorized the execution, delivery and performance of this Agreement, the other Contract Documents and the Work to be performed herein. The Contract Documents do not violate or create a default under any instrument, agreement, order or decree binding on Contractor.

5.8 Contractor has listed the following Subcontractors pursuant to the Subcontractor Listing Law, California Public Contracting Code §4100 *et seq.*:

Name of Subcontractor and Location of Mill or Shop	Description of Work: Reference To Bid Items	Subcontractor's License No.	Subcontractor's DIR No.
Tyrell Resources, Inc. PO Box 8219 Truckee, CA 96162	Clear & Grub partial tree removal	938998	1000007965
Camblin Steel Service, Inc. 548 Gibson Dr., Suite 150 Roseville, CA 95678	Reinforcing Steel	218839	1000003852
Dees-Hennessey, Inc. 200 Industrial Rd., Suite 190 San Carlos, CA 94070	Shotcrete	481228	1000003007

Article 6. Contract Documents

6.1 Contract Documents include the following documents, including all changes, addenda, and modifications thereto:

- Divisions 0 through 48
- Syblon Reid T&M Rates

6.2 There are no Contract Documents other than those listed in this SECTION 00520, Article 6. SECTION 00320 (Geotechnical Data and Existing Conditions), and the information supplied therein, are not Contract Documents. The Contract Documents may only be amended, modified or supplemented as provided in SECTION 00700 (General Conditions).

Article 7. Miscellaneous

7.1 Terms used in this Agreement are defined in SECTION 00700 (General Conditions) and Section 01420 (References and Definitions) and will have the meaning indicated therein.

7.2 It is understood and agreed that in no instance are the persons signing this Agreement for or on behalf of District or acting as an employee, agent, or representative of District, liable on this Agreement or any of the Contract Documents, or upon any warranty of authority, or otherwise, and it is further understood and agreed that liability of the District is limited and confined to such liability as authorized or imposed by the Contract Documents or applicable law.

7.3 Contractor shall not assign any portion of the Contract Documents, and may subcontract portions of the Contract Documents only in compliance with the Subcontractor Listing Law, California Public Contracting Code §4100 *et seq.*

7.4 (Not Used)

7.5 In entering into a public works contract or a subcontract to supply goods, services or materials pursuant to a public works contract, Contractor or Subcontractor offers and agrees to assign to the awarding body all rights, title and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. §15) or under the Cartwright Act (Chapter 2 (commencing with Section 16700) of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services or materials pursuant to the public works contract or the subcontract. This assignment shall be made and become effective at the time District tenders final payment to Contractor, without further acknowledgment by the parties.

7.6 Copies of the general prevailing rates of per diem wages for each craft, classification, or type of worker needed to execute the Contract, as determined by Director of the State of California Department of Industrial Relations, are deemed included in the Contract Documents and on file at District's office, and shall be made available to any interested party on request. Pursuant to Section 1861 of the Labor Code, Contractor represents that it is aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that Code, and Contractor shall comply with such provisions before commencing the performance of the Work of the Contract Documents.

7.7 Should any part, term or provision of this Agreement or any of the Contract Documents, or any document required herein or therein to be executed or delivered, be declared invalid, void or unenforceable, all remaining parts, terms and provisions shall remain in full force and effect and shall in no way be invalidated, impaired or affected thereby. If the provisions of any law causing such invalidity, illegality or unenforceability may be waived, they are hereby waived to the end that this Agreement and the Contract Documents may be deemed valid and binding agreements, enforceable in accordance with their terms to the greatest extent permitted by applicable law. In the event any provision not otherwise included in the Contract Documents is required to be included by any applicable law, that provision is deemed included herein by this reference (or, if such provision is required to be included in any particular portion of the Contract Documents, that provision is deemed included in that portion).

7.8 This Agreement and the Contract Documents shall be deemed to have been entered into in the County of El Dorado, State of California, and governed in all respects by California law (excluding choice of law rules). The exclusive venue for all disputes or litigation hereunder shall be in the Superior Court of the State of California for the County of El Dorado. Both parties hereby waive their rights under California Code of Civil Procedure Section 394 to file a motion to transfer any action or proceeding arising out of the Contract Documents to another venue. Contractor accepts the Claims Procedure in SECTION 00700, Article 12, established under the California Government Code, Title 1, Division 3.6, Part 3, Chapter 5.

7.9 Attorneys' Fees. Except as otherwise provided in the Contract Documents, if either party institutes or is required to defend any legal proceeding, action or motion to enforce or interpret the terms of this Agreement, the prevailing party shall be entitled to recover all costs and expenses, specifically including, but not limited to, reasonable attorneys' fees.

7.10 The Contractor or subcontractor shall, as a penalty to the state or political subdivision on whose behalf the contract is made or awarded, forfeit twenty-five dollars ($25) for each worker employed in the execution of the contract by the respective contractor or subcontractor for each calendar day during which the worker is required or permitted to work more than 8 hours in any one calendar day and 40 hours in any one calendar week in violation of the provisions of California Labor Code. Work performed by employees of contractors in excess of 8 hours per day, and 40 hours during any one week, shall be permitted upon public work upon compensation for all hours worked in excess of 8 hours per day at not less than 1 1/2 times the basic rate of pay.

7.11 The District is currently using Procore as its project management application. All documents shall be submitted to the District through the Procore application except as otherwise directed by District.

IN WITNESS WHEREOF the parties have executed this Agreement in triplicate the day and year first above written.

DISTRICT

EL DORADO IRRIGATION DISTRICT

By:

James M. Abercrombie, General Manager

Brian M. Mueller P.E., Director of Engineering

Elizabeth Dawson P.E., Engineering Manager

Cary Mutschler P.E., Senior Civil Engineers

Approved as to form by Office of the General Counsel:

CONTRACTOR:

SYBLON REID

By:

[Signature]

Gregory B. Cederstrom

[Please print name here]

Title: President, Syblon Reid Construction, Inc., Partner

By:

[Signature]

Herschell D. Epperson

[Please print name here]

Title: Chief Financial Officer, Syblon-Reid Co., Partner

[If Corporation: Secretary, Assistant Secretary, Chief Financial Officer, or Assistant Treasurer]

758610

State Contractor's License No.

A&B

Classification

2/28/2023

Expiration Date

68-0425926

Taxpayer ID No.

IN WITNESS WHEREOF the parties have executed this Agreement in triplicate the day and year first above written.

DISTRICT

EL DORADO IRRIGATION DISTRICT

By: _____

James M. Abercrombie, General Manager

_____

Brian M. Mueller P.E., Director of Engineering

_____

~~Elizabeth Dawson P.E., Engineering Manager~~

_____

~~Cary Mutschler P.E., Senior Civil Engineers~~

Approved as to form by Office of the General Counsel:

_____

CONTRACTOR:

SYBLON REID

By: _____

[Signature]

_____

[Please print name here]

Title: _____

By: _____

[Signature]

_____

[Please print name here]

Title: _____

[If Corporation: Secretary, Assistant Secretary, Chief Financial Officer, or Assistant Treasurer]

_____

State Contractor's License No.

_____

Classification

_____

Expiration Date

_____

Taxpayer ID No.

SYBLON REID
General Engineering Contractors
Providing Solutions to Difficult Projects

1130 Sibley Street *P.O. Box 100* *(916) 351-0457* *srco@srco.com*
Folsom, CA 95630 *Folsom, CA 95763-0100* *(916) 351-1674 fax* *www.srco.com*

Exhibit A

September 3, 2021

Cary Mutschler
El Dorado Irrigation District
2890 Mosquito Road
Placerville, CA 95667

RE: El Dorado Irrigation District
Emergency Repairs to Flumes 4, 5, and 6

Subject: Syblon Reid 2021 Proposal

Dear Cary:

Thank you for the opportunity to work with EID on this critical project. We look forward to working with the team to implement the repairs in the safest, most cost effective, and schedule driven way possible.

Please feel free to contact me with any questions.

Regards,
SYBLON REID

Syblon Reid Construction , Inc., Partner
Gregory B. Cederstrom
President

Encl.: Clarifications
Labor Rates

Clarifications

- All the work on this contract will be on a Time and Materials basis, per the attached labor rates and mark-ups.
- Time and Material labor rates for all work on this project below are without mark-up.
- Constructor-owned equipment will be based on Caltrans plus 15% markup on cost.
- Mark-up on cost for labor, materials, outside rental equipment (+fuel), excessive wear and damage, cutting edge replacement, and operated equipment is 15%.
- Mark-up on subcontractors (including their bond cost) is 5%.
- Syblon Reid has included bond and standard insurance costs in their costs, but has not included builder's risk cost.
- Subsistence to be billed only if used.

El Dorado Irrigation District

Shift 1 - Valley 2021-2022 - SHIFT 1

	Billing Rate Fully Burdened without Profit Rates Valid from 07/01/21 to 06/30/22			
Classification	**Straight Time**	**Overtime**	**Double Time**	**Per Diem Rate**
Carpenter -	109.05	140.57	172.07	175.00 p/Day
Carpenter Foreman -	115.69	150.36	185.02	175.00 p/Day
Millwright	116.09	149.21	182.34	175.00 p/Day
Millwright Foreman	122.32	158.34	194.36	175.00 p/Day
Laborer	81.42	103.15	124.86	175.00 p/Day
Laborer - Foreman	85.09	108.58	132.07	175.00 p/Day
Operator Foreman < 7	112.79	146.51	180.22	175.00 p/Day
Laborer - Tunnel	94.47	121.19	147.91	175.00 p/Day
Laborer - Tunnel Foreman	96.55	124.22	151.91	175.00 p/Day
Operator Group 3	110.82	143.58	176.34	175.00 p/Day
Operator Group 4	108.98	140.85	172.72	175.00 p/Day
Operator - Mech/Welder	115.26	149.96	184.66	175.00 p/Day
Operator Crane	115.59	149.72	183.84	175.00 p/Day
Cement Mason	93.68	120.06	146.44	175.00 p/Day
Cement Mason - Foreman	95.08	122.63	150.16	175.00 p/Day
Senior Project Manager w/Pickup	152.45	152.45	152.45	175.00 p/Day
Project Manager/Superintendent w/Pickup	128.62	128.62	128.62	175.00 p/Day
Sr Project Engineer w/Pickup	93.51	93.51	93.51	175.00 p/Day
Project Engineer w/Pickup	86.89	86.89	86.89	175.00 p/Day
Safety w/Pickup	128.08	128.08	128.08	175.00 p/Day
CQC Personnel w/Pickup	128.08	128.08	128.08	175.00 p/Day

El Dorado Irrigation District

Shift 1 - Valley 2021-2022 - SHIFT 2

	Billing Rate Fully Burdened without Profit Rates Valid from 07/01/21 to 06/30/22			
Classification	**Straight Time**	**Overtime**	**Double Time**	**Per Diem Rate**
Carpenter -	113.47	147.08	180.69	175.00 p/Day
Carpenter Foreman -	120.55	157.53	194.50	175.00 p/Day
Millwright	120.85	156.17	191.50	175.00 p/Day
Millwright Foreman	127.49	165.91	204.33	175.00 p/Day
Laborer	84.42	107.59	130.76	175.00 p/Day
Laborer - Foreman	88.33	113.38	138.43	175.00 p/Day
Operator Foreman < 7	119.64	156.65	193.66	175.00 p/Day
Laborer - Tunnel	98.62	127.27	155.91	175.00 p/Day
Laborer - Tunnel Foreman	100.69	130.31	159.92	175.00 p/Day
Operator Group 3	117.41	153.36	189.31	175.00 p/Day
Operator Group 4	115.34	150.28	185.22	175.00 p/Day
Operator - Mech/Welder	120.09	157.10	194.12	175.00 p/Day
Operator Crane	122.69	160.17	197.65	175.00 p/Day
Cement Mason	97.37	125.52	153.66	175.00 p/Day
Cement Mason - Foreman	103.47	134.98	166.50	175.00 p/Day
Senior Project Manager w/Pickup	152.45	152.45	152.45	175.00 p/Day
Project Manager/Superintendent w/Pickup	128.62	128.62	128.62	175.00 p/Day
Sr Project Engineer w/Pickup	93.51	93.51	93.51	175.00 p/Day
Project Engineer w/Pickup	86.89	86.89	86.89	175.00 p/Day
Safety w/Pickup	128.08	128.08	128.08	175.00 p/Day
CQC Personnel w/Pickup	128.08	128.08	128.08	175.00 p/Day

EL DORADO IRRIGATION DISTRICT

SUBJECT: Consider awarding a contract to ATEEM Electrical Engineering, Inc. in the not-to-exceed amount of $362,695 for design of the Emergency Backup Generator Upgrades Project, and authorize additional funding of $70,000 for capitalized labor and $30,000 in contingencies for a total funding request of $462,695 for the Emergency Backup Generator Upgrades Project, Capital Improvement Plan Project Nos. 21040.01 and 21041.01.

PREVIOUS BOARD ACTION

July 26, 2021 – Federal Emergency Management Agency Hazard Mitigation Grant Program Update.

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

BP 0010 District Mission Statement
BP 5010 Water Supply Management
BP 6010 Wastewater System Management

SUMMARY OF ISSUE

The District received approval for over $1.8 million in Hazard Mitigation Grant Program (HMGP) funding for the installation of backup power generators at 22 water and wastewater facilities to provide critical public health and safety functions during power outages. A design contract is needed to develop bid documents for construction.

BACKGROUND/DISCUSSION

District staff applied for the 2019 HMGP grant funding opportunity associated with Disaster Declaration FEMA-4407-DR, declared by President Trump on November 12, 2018 in response to the Camp and Woolsey Fires in Butte and Ventura/Los Angeles Counties, respectively. Staff identified and submitted funding subapplications for two projects under this declaration – additional backup power generators for critical water and wastewater facilities and preparation of a single jurisdiction Local Hazard Mitigation Plan (LHMP).

On June 2, 2021, the District received notification that FEMA approved the District's subapplication for backup power generators for critical water and wastewater facilities. The project benefits 22 critical District facilities - 10 drinking water pump stations and 12 wastewater lift stations. As part of the grant, the District will purchase and install a generator and automatic transfer switch at each location, and integrate the facility to the District's Supervisory Control and Data Acquisition (SCADA) system allowing for remote observation and operation of the facility.

To proceed with HMGP grant execution, District staff solicited a Request for Proposals (RFP) for design services to develop bid documents for the project. Specifically, the scope of design work is to conduct a field survey, develop a conceptual design to determine land acquisition requirements, and then develop full plans and specifications for bidding. Concurrently, District staff will facilitate field visits for design purposes, engage with nearby residents for public outreach, and continue to manage the HMGP grant.

Request for Proposals
An RFP for design services was released and advertised on the District's website in July/August 2021. Eleven consultants attended the mandatory pre-proposal meeting and the District received the following proposals:

Consultant	Proposed Cost
ATEEM Electrical Engineering, Inc.	$362,695
Black & Veatch Corp.	$651,451
Frisch Engineering, Inc.	$597,240
M. Neils Engineering, Inc.	$763,381
P2S, Inc.	$1,013,799

Proposal Evaluation and Ranking
District staff evaluated the proposals based on several criteria including responsiveness to the RFP, experience and expertise on similar projects, project team makeup and capabilities, and rates and charges. The proposal provided by ATEEM demonstrates an experienced project team with first-hand knowledge of generator upgrades at District facilities at a cost-effective fee. ATEEM's proposal ranked the highest amongst all proposals received.

Schedule
The tentative schedule includes completion of design in early 2022 and construction bidding in spring of 2022. The twenty-two remote District facilities are expected to have functional back-up diesel generators by summer of 2023. However, that schedule will be largely dependent on availability of critical components including generators. Current market conditions have the potential to affect overall project schedule, but staff will continue to make all efforts for the facilities to be operational for the 2023 PG&E Public Safety Power Shutoff (PSPS) season.

FUNDING
The funding sources for this project are 50% water rates and 50% wastewater rates with reimbursement of approximately 75% of project costs via HMGP Grant funding. The 2022-2026 Capital Improvement Plan will include this project and reflect current estimates as well as reimbursement amounts.

FEMA obligated $1,829,573.25, or 75% of estimated costs as of 2019, toward the total estimated project cost of $2,439,431. The project cost estimate includes all construction costs as well as design, inspection, and capitalized labor for project and construction management. Per the grant award letter, the District is required to complete the project by September 18, 2023.

Funding Requirements

Professional services contract – ATEEM	$362,695
Capitalized labor	$70,000
Project contingency	$30,000
Total Funding Request	**$462,695**

BOARD OPTIONS

Option 1: Award a contract to ATEEM Electrical Engineering, Inc. in the not-to-exceed amount of $362,695 for design of the Emergency Backup Generator Upgrades Project, and authorize additional funding of $70,000 for capitalized labor and $30,000 in contingencies for a total funding request of $462,695 for the Emergency Backup Generator Upgrades Project, Capital Improvement Plan Project Nos. 21040.01 and 21041.01.

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

Option 3: Take no action.

RECOMMENDATION

Option 1

ATTACHMENTS

Attachment A: Consultant proposal

Liz Carrington
Senior Civil Engineer

Elizabeth Dawson
Engineering Manager

Brian Mueller
Engineering Director

Tracy Crane
Wastewater/Recycled Water Manager

Radenko Odzakovic
Drinking Water Manager

Dan Corcoran
Operations Director

Mark Price
Finance Director

Brian Poulsen
General Counsel

Jim Abercrombie
General Manager

A T.E.E.M. ELECTRICAL ENGINEERING Inc.
INDUSTRIAL & COMMERCIAL DESIGN

3841 NORTH FREEWAY BLVD., STE 145
SACRAMENTO, CA 95834

TEL: (916) 457-8144

August 25, 2021

Ms Liz Carrington, P.E.
Senior Civil Engineer
El Dorado Irrigation District
2890 Mosquito Rd
Placerville, CA 95667
E-mail: ContractManagement@eid.org

Location: Multiple
Subject: Proposal for RFP-21-14 – Emergency Backup Generator Upgrades Project

We are pleased to submit this proposal for Emergency Backup Generator Upgrades.

We have read and reviewed Addendum Number 1 (dated July 30, 2021), Addendum Number 2 (dated August 13, 2021) and Addendum Number 3 (dated August 18, 2021) for this RFP.

A T.E.E.M. is dedicated to meet your needs by providing specialized design, consultant and management services. Please give us a call if you have any questions or require further information.

Sincerely,

Sharon M. Kimizuka, P.E.
A T.E.E.M. Electrical Engineer

A T.E.E.M. ELECTRICAL ENGINEERING Inc.
INDUSTRIAL & COMMERCIAL DESIGN

3841 NORTH FREEWAY BOULEVARD, SUITE 145
SACRAMENTO, CA 95834
TEL: (916) 457-8144
FAX: (916) 457-7876

Proposal for Emergency Backup Generator Upgrades
RFP 21-14

A proud minority-woman owned business since 2005

Proposal Date: August 25, 2021

A T.E.E.M. ELECTRICAL ENGINEERING Inc.
INDUSTRIAL & COMMERCIAL DESIGN

3841 NORTH FREEWAY BOULEVARD, SUITE 145
SACRAMENTO, CA 95834
TEL: (916) 457-8144
FAX: (916) 457-7876

Section 1 – Scope of Work

A T.E.E.M. is a minority / woman business enterprise and is pleased to submit this proposal to provide professional services to provide emergency backup generators at a number of water and wastewater facilities throughout the District. It is essential to have an established approach to a project to ensure everyone understands what is being provided and the milestones that need to be met. The following lists ***A T.E.E.M.***'s approach to the backup power project:

- **Phase 1 – Conceptual Design (September ~ November)**
  - Surveyors will visit all sites to conduct a site survey. Survey will include preliminary boundary, easements, edges of pavement, walls, underground facilities (based on others), existing monuments and 1 foot contours. New monuments, easements and record of survey are not included.
  - Obtain available existing documentation, and drawings necessary to develop one line and preliminary electrical site plan drawings showing location of generators and ATSs.
  - Meet with the District and visit each site to discuss concerns and specific of each site. Discuss locations of new PLC cabinets and Marina Hills LS, Motherlode LS, Starbuck LS and Summit View No. 1 LS.
- **Phase 2 – 50% Design (November ~ January)**
  - Develop 50% level design documents for one-line and P&ID diagrams for each site showing new work. This is our typical 50% level electrical design documents. Additional documents provided at this stage will be discussed with the District.
  - Coordinate with generator manufacturers to size generators and obtain dimensions for site placement.
  - Develop a bid specification to address construction sequencing, construction bypass and cutover. Temporary bypass pumping and piping for each station will also be coordinated with District. District will provide a site priority list.
  - Verify with District locations that may have noise concerns.
  - Develop screenings for up to three (3) sites.
  - Meet with the District to discuss 50% submittal comments.
- **Phase 2 – 90% Design (January ~ February)**
  - Develop 90% level design documents including specifications, conduit and wire routing schedule ATSs, generators, etc.

- Develop detailed testing and sign off procedures for Contractor to verify signal from field device through PLC to alarm notification.

SUCCESSFUL PROJECTS

A complete design is a project that is biddable, easily understood by Contractors and results in minimal RFIs and change orders. We pride ourselves on this accomplishment.

- **Phase 3 – Final Design (February ~ March)**

  - Finalize construction documents for bid.
  - The Final level design documents will incorporate all comments and will serve as a check set prior to signed documents.
  - The District will provide front end specifications, base site plans and coversheet as required for this project.

Section 2 –Relevant Experience, Qualifications and Experience

A T.E.E.M. Electrical Engineering was established in 1988 and is centrally located in Sacramento, CA, a short 30 minute drive to most sites; other sites are far even for the District. ***A T.E.E.M.*** is listed with DIR as a Public Works Contractor (PW-LR-1000561153). Since the company was founded, ***A T.E.E.M.*** has specialized in planning, design and implementation of water and wastewater electrical power distribution, instrumentation and SCADA control systems, including generator replacements. This provides us with the experience and expertise necessary to carry out the required tasks necessary to meet District standards.

In our thirty years of business, ***A T.E.E.M*** has worked on over 1700 projects. This includes providing design and construction services for sewer lift stations, tank sites, booster pump stations, water wells, filters for wells, water treatment plants, wastewater treatment plants, SCADA systems (designs, implementations and troubleshooting), and pressure reducing stations. With our trained professional engineers we also provide electrical structure evaluations, radio path survey verification, and SCADA/PLC programming and training. All of our engineers are licensed Professional Engineers with the State of California.

A T.E.E.M.'s three professional engineers are available to answer questions during normal business hours and outside of normal business hours, within reason. Over 90% of our clients are municipalities, Districts and Public Works agencies that operate the water systems for an area. This includes: Placer County Water Agency, EID, City of Placerville, Amador Water Agency, Calaveras County Water District, City of Modesto (Public Works), City of Tracy (Utilities), City of Sacramento (Utilities), City of Woodland (Public Works), City of Davis (Public Works), City of Fairfield (Public Works), City of Vallejo (Water Department), City of Napa (Public Works), City of Santa Rosa (Utilities) and City of Hayward (Public Works).

With the recent PG&E utility power outages and aging facilities, we have been working on a number of generator installation and equipment replacement projects. This includes projects where multiple generators and automatic transfer switches are being replaced along with some minor improvements.

Most of the facilities that we have designed have included stationary generators as part of the original design. Occasionally these generators fail and must be replaced. We have learned over the years that the each member of the Contractor team plays a critical role in the execution of the project. A bad general contractor, electrician, generator supplier, system integrator, etc. can cause the entire project to be derailed regardless of how well the other members of the team perform their job. Verifying references are important, but prior experience on similar projects appears to be of most importance.

- **City of Santa Rosa, Backup Generators – Water and Wastewater Facilities** – Electrical and instrumentation design for replacing existing natural gas/propane generators with more reliable diesel generators at 18 water and wastewater stations. City's transfer switch pedestal has been incorporated into all stations. As the project has progressed, a number of existing automatic transfer switches were requested to be replaced and City has determined that two stations will require additional pumps (to be completed outside of scope of project). The power distribution at one facility will be corrected for a more reliable power feed.

- **Critical Water Facility Generators** - Electrical and instrumentation design for installing stationary and portable generators at nine identified critical water facilities at El Dorado Irrigation District. Two sites require complete replacement of the main switchboard, ATS and power distribution to existing equipment. Two other sites required replacement of the PLC Control Panel with District standard panel.

- **City of Hayward, Garin Pump Station and Tank** – Electrical and instrumentation design for replacing existing generator, main switchboard, motor controls, and two existing pumps; and new smaller water storage tank was also provided. New generator, main switchboard, MCCs, four new pumps were provided. Tank mixers were provided for both water storage tanks. The improvements included demolishing and replacing the existing electrical distribution while keeping the existing system on-line. The existing panelboard was replaced. Detailed construction sequences were provided to the Contractor for step-by-step switchover power and control to maintain the pump station in operation.

- **City of Burlingame, Generator Replacement** – Removed existing underground fuel tanks and replaced existing generator and ATS. Worked with the City and generator manufacturers to find a solution for the system to be installed in the existing building.

As you can see, ***A T.E.E.M.*** has a wide range of public sector clients. Some have maintenance departments who are well versed in the electrical and control components of their system and others have no electrical maintenance whatsoever. ***A T.E.E.M.*** is able to provide on-site and off-site technical support of any of our clients' systems as well as thought-out design well controls systems. Our broad yet specific knowledge of control system components avoids confusion and mismatched parts during construction and integration.

We take pride in our ability to talk directly with operations and maintenance staff to understand the wants and needs of a plant or other system and fold that into a design that also meets the requirements of the engineering and administration staff.

Our continuing experience of design and implementation gives us the ability to predict problems, avoid them before they occur and provide solutions that add value to our customers without adding cost or complexity.

Section 3 – Project Team

We are proposing a highly qualified team that has worked well together on a number of similar projects.

A T.E.E.M.'s Principal-in-Charge, **Sharon M. Kimizuka**, P.E. – ***A T.E.E.M.***'s President is a State of California registered Professional Engineer. Ms. Kimizuka has 28 years of specialized experience in wastewater, water and drainage system engineering projects. She has developed numerous SCADA graphic systems for sites ranging from small pump stations to major water & wastewater treatment plants. This experience has given Ms. Kimizuka an understanding of system operations and the type of information and graphics that operators need in order to make their SCADA system useful. Ms. Kimizuka has been responsible for designs of over eleven water treatment plants, fifteen wastewater treatment plant and numerous lift station, wells, tanks & booster pump station projects and has been brought in to provide plan check on a number pump station designs by others.

MULTIPLE GENERATOR EXPERIECE

Ms. Kimizuka has recently designed projects with multiple generators being replaced under one contract. This includes the City of Santa Rosa, Backup Generators – Water and Wastewater Facilities and EID's Critical Water Facility Generators Project. We have learned that there is seldom duplication between sites. Each site needs to be approached as its own individual mini project based on existing electrical panel installation, horsepower, quantity and unique location.

Erik Burns, P.E. - *A T.E.E.M.*'s Control System Engineer is a State of California Professional Engineer with over 24 years of diverse experience in various industries, including water and wastewater, manufacturing and power generation. Mr. Burns has worked as project engineer and manager for a control system house. He is experienced in Allen-Bradley, GE, Modicon, Bristol–Babcock, Siemens, and PLCDirect PLC software and hardware engineering as well as a start-up field engineer. Mr. Burns has extensive experience with Wonderware, Factory Talk View SE/ME, Intellution, Cimplicity, PanelView and PanelMate. In recent years he has installed three separate Archestra based Wonderware projects for water and wastewater facilities.

Mr. Burns has become the primary PLC / SCADA programmer for the City of Hayward, Calaveras County Water District and City of Woodland by resolving issues that have stymied System Integrator PLC programmers and radio technicians. This experience has proven invaluable during installation of SCADA/radio systems. He has also become a resource to El Dorado Irrigation District, City of Placerville and Placer County Water Agency.

Section 3 – Project Team

PROVEN SUCESSFUL SCADA AND PLC INSTALLATIONS

Mr. Burns has a proven track record of completing PLC programming and SCADA modification with minimal corrections required after installation. We do not blame hardware issues or radios for a failure to complete a programming task.

Xiaoming Li, M.S.E., P.E. - *A T.E.E.M.*'s Electrical Engineer has over 24 years of experience in designing water treatment plants and pump stations. Mr. Li has designed 22 water or wastewater treatment plants from initial design to construction inspection to start-up. This experience proves invaluable in designing and providing quality control on projects. He also has experience in SCADA/PLC programming as well as a start-up field engineer.

A T.E.E.M and Domenichelli & Associates have worked on prior similar projects where we replaced the EID Moosehall pump station including the motor controls at an existing reservoir while keeping the pumps on-line and the new station in the same footprint at the old station. ***A T.E.E.M*** under a different project is replacing the existing Moosehall main switchboard and installing a new main switchboard with ATS and standby generator.

Domenichelli and Associates, Inc. (D&A) will provide the civil engineering on this project. They are a local water resources engineering firm with extensive experience working for local agencies owning and operating water, wastewater and drainage systems. D&A was **established in 2002** by President **Joseph Domenichelli**. Vice President, **Sara Rogers**, has been with the company since 2003. For over 18 years D&A has worked hard to develop a team of highly qualified individuals. The philosophy of the firm has always been to provide superior client service at reasonable rates. The majority of D&A work is from repeat clients and we pride ourselves on maintaining client satisfaction. is listed with DIR as a Public Works Contractor (PW-LR- 1000053533).

D&A has provided a wide range of services from master planning of water, wastewater, and drainage systems for entire communities, to the design and construction management of municipal improvement facilities such as pipelines, pump stations, and storage facilities. D&A's design and construction backgrounds allow us to identify potential problems before they become an issue.

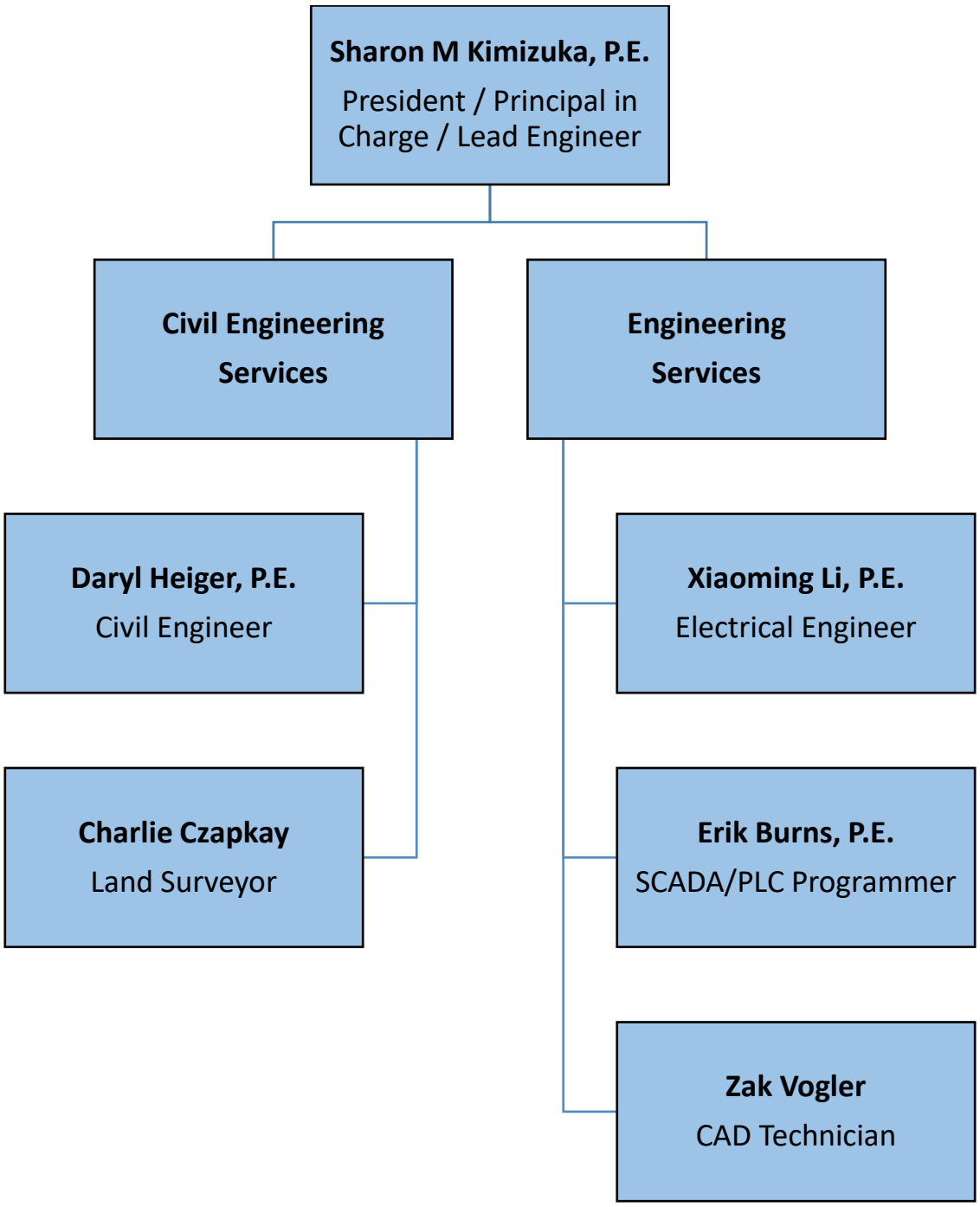
Daryl Heigher, P.E. is a California registered engineer with over 20 years of experience and has been with Domenichelli and Associates since 2012. He has extensive experience in water and wastewater gravity and pressure pipeline designs, pump station designs, hydraulic structure designs, structural designs, site layout and grading improvements, cost estimating, construction inspection, and shop drawing review. On many of these design projects, he has served as project manager and/or project engineer. He has worked on a variety of projects with EID such as; pump stations, tanks, campgrounds, treatment plants, water and wastewater pipelines including the original pump station design.

Section 3 – Project Team

Area West Engineering, Inc. (AWE) will provide the surveying on this project. They are a local civil and land surveying firm with extensive experience working on easements, improvement plans, encroachment permits, pipeline design, hydrology studies, topographic surveys and control surveys. AWE was **established in 1974** has worked hard to develop technical expertise. AWE is listed with DIR as a Public Works Contractor (PW-LR- 1000032188).

Charlie Czapkay, PLS. is a California registered land surveyor engineer with 14 years of experience and has been with Area West Engineers, Inc. for over 20 years. He has experience includes aerial mapping, control surveys, and extensive topographical projects using electronic data collection methods, as well as cadastral, boundary, GPS, right-of-way, and construction staking surveys for pipeline, site development and transportation projects. Being a Placerville resident, Mr. Czapkay is very excited for the opportunity to continue to be part of the District's team.

Organizational Chart



Section 4 – Quality Assurance and Control; Conflicts

Since 1996, ATEEM has designed, developed or programmed nearly 700 SCADA or PLC projects. We thoroughly understand the complexity of replacing existing PLCs and PLC programs that have been developed and modified over the decades. ATEEM will perform the following tasks for the project.

A T.E.E.M.'s staff experience includes hands-on familiarity of process, equipment and control systems for the water and wastewater industry. Our experience proves invaluable in understanding industry standards for motor control, communications, PLC programming methods, and graphic screen setup. ***A T.E.E.M.***'s engineers are experienced in PLC programming, radio telemetry design and Supervisory Control and Data Acquisition (SCADA) systems. Furthermore, ***A T.E.E.M.*** personnel are very familiar with most contractors and integrators regularly engaged in supplying equipment for the water and wastewater industry.

As part of ***A T.E.E.M.***'s QA/QC procedure, we have different engineers provide a full review of contract documents prior to sending information out of our office. This will ensure that even though many people have contributed to the effort, information is presented in an easily readable manner.

A T.E.E.M. is more than willing to meet with both Engineering and Operating Staff prior to and during the project to outline expectations and ensure quality control. This helps ensure that new equipment the District has standardized upon is incorporated into the design. ***A T.E.E.M.***'s past work experience at EID offers an advantage in that ***A T.E.E.M.*** staff is familiar with many EID facilities, their designs and their histories.

A T.E.E.M. prides itself on maintaining a level of professionalism with EID Staff members. Personal conflicts have never been an issue. Currently, ***A T.E.E.M.*** does not have staff members residing in EID District, which minimizes the chance for conflicts of interest. ***A T.E.E.M.*** looks forward to continue working with EID.

Section 5 – Client References

A T.E.E.M. has worked on many different Water/ Wastewater projects since our founding. Some of the improvements have included replacing existing generators as part of the overall improvements and some were only replacing the generator. The following are client references for projects that have included generator replacements:

Contact References:

- Benjamin Foreman — Garin Pump Station and Tank
  City of Hayward
  24499 Soto Road, Hayward, CA 94544
  (510) 881-7978

- Adam Rausch — Santa Rosa Backup Generator Replacements – Water & Wastewater
  City of Santa Rosa
  35 Stony Point Rd, Santa Rosa, CA 95401
  (707) 543-3859

- Patrick Wilson, P.E. — Critical Water Facility Project
  EID
  2890 Mosquito Rd, Placerville 95667
  (530) 642-4079

Section 6 – Contract and Insurance Requirements

A T.E.E.M. will be able to comply with the requirements of the contract listed in Appendix C. We carry a complete line of insurance for your protection. This includes the following:

General Liability	$4,000,000
Automobile Liability	$2,000,000
Workers' Compensation	Statutory
Employer's Liability	$1,000,000
Professional Liability	$2,000,000

A T.E.E.M. is current on all insurance certificates and is willing to comply with EID requirements.

Section 7 – Addenda

A T.E.E.M. has downloaded the three addendum associated with this job from EID's website.

Sharon M. Kimizuka, P.E.

Education
B.S., Electrical Engineering,
University of California, Irvine,
1991

Registration
1998/Electrical Engineer / California
E15698

Experience
A T.E.E.M. Electrical Engineering, Inc. 1994-Present
Holmes & Narver, 1991-1994
Jet Propulsion Laboratory, 1990

Affiliations
California Water Environment Association
Society of Women Engineers
National Fire Protection Association
Institute of Electrical and Electronic Engineers
Instrument Society of America

A T.E.E.M.'s Principal in Charge and President, Sharon M. Kimizuka, P.E., is a State of California registered Professional Engineer. Ms. Kimizuka has 29 years of specialized experience in wastewater, water and drainage system engineering projects.

EXPERIENCE

City of Santa Rosa (in design) – Electrical Engineer in charge on the Backup Generator – Water and Wastewater Facilities Replacement project. Electrical and instrumentation design for replacing existing natural gas generators at ten sewer lift stations and eight pump stations. Electrical Design includes new standby generators and local transfer switch pedestals. ATS and other modifications were made to sites on a case by case basis.

Calaveras County Water District (in design) – Electrical Engineer in charge on the Lift Station 6, 8 15 & 18 Renovations project. Electrical and instrumentation design for replacing four existing sewer lift stations. Electrical Design for included new metering pedestals, main switchboard, pump controls, standby generator, ATSs, instrumentation, PLCs, radio communication to Central and power feed between two stations.

City of Santa Rosa (in design) – Electrical Design for new well at A Place to Play Park. Improvements included new building, power feed, modification of existing main switchboard, MTS, portable generator connection, soft starter pump controls, instrumentation and PLC.

City of Santa Rosa (in design) – Electrical Engineer in charge on the Geyser Delta Improvements project. Electrical and instrumentation design for improvements at the City of Santa Rosa Geysers Delta Connection project. Electrical Design includes new power pedestal, RTU panel site lighting and power for two motor operated valves.

El Dorado Irrigation District - Electrical Engineer in charge on the EID, Critical Water Facility Generator project. Electrical and instrumentation design for installing pre-purchased generators at seven pump stations. Electrical Design includes new main/metering switchboards at two facilities, new PLC panels at two other facilities, ATSs at two more facilities and interconnection at all facilities to new equipment.

City of Woodland - Electrical Engineer in charge on the City of Woodland ASR Well 29 & 30 project. Project includes replacing existing water wells, chemical systems, control buildings, re-feeding existing park lighting, new generator at one site and security camera system. ATEEM provided programming of the PLC, OI and SCADA system under a separate contract.

UC Davis - Electrical Engineer in charge on the UC Davis Primary Sanitary Sewer and Storm Drain Lift Station Improvements project. Project includes replacing existing electrical controls for five sanitary sewer lift stations and eleven storm drain pump stations. Three different standard pump control panels were designed to replace the existing motor controls. The RTU panels were provided by the University to connect to the pumps, instruments and new panels. ATEEM worked closely with the University to identify the best communication method to each site.

City of Vallejo – Electrical Engineer in charge on the finished Water Pump Station Electrification project. Electrical and instrumentation design for replacing existing diesel engine driven pumps with new VFD motor controls. Design included outdoor three new Motor Control Centers, manual transfer switches for three MCCs, new electrical in existing electrical/pump building, three 18-pulse (125HP) VFD drives, provisions for five future VFD pumps.

City of Fairfield – Electrical Engineer in charge on the Canon Pump Station project. Electrical and instrumentation design for a new water pump station located near the North Bay Regional WTP. Design included outdoor 600KW standby generator with sub-base fuel tank, load bank, electrical/pump building, three 18-pulse (125HP) VFD drives with provisions for two additional pumps. Conduits and pullboxes were provided for future two each 2MG reservoirs.

Vallejo Flood and Wastewater District – Electrical Engineer in charge on the Coral Sea Lift Station 8C project. Electrical and instrumentation design for a new sewer lift station. Design included outdoor 25KW standby generator with sub-base fuel tank, electrical/pump building, three pumps and PLC controls.

City of Santa Rosa – Electrical Design for improvements at Spring Lake Lift Station. Design included new utility power meter pedestal, ATS, MTS, generator, motor controls and RTU.

City of Jackson – Electrical Engineer in charge on the City of Jackson WWTP Improvements project. Design included new Disk Filters, UV system, Oxidation Ditch rehabilitation, new meter/main switchboard, new standby generator, dissolved oxygen control, replacing existing RAS VFDs, replacing solids dewatering system and new Plant drainage pump station.

City of Santa Rosa – Electrical Engineer in charge on the Farmers Lane Well System Upgrade project. Electrical and instrumentation design for a new water pump station. Electrical Design for upgrading existing Well Pumps 4-1 and 4-2. Improvements included new building, power feed, main switchboard, MTS, pump controls, instrumentation and PLCs.

UC Davis - Electrical Engineer in charge on the UC Davis Primary Sanitary Sewer and Storm Drain Lift Station Improvements project. Project includes replacing existing electrical controls for five sanitary sewer lift stations and eleven storm drain pump stations. Three different standard pump control panels were designed to replace the existing motor controls. The RTU panels were provided by the University to connect to the pumps, instruments and new panels. ATEEM worked closely with the University to identify the best communication method to each site.

City of Sacramento - Electrical Engineer in charge on the Shasta Park Water System project. Project includes new water well, pressure filters, chemical system, control building, storage tank and booster pump station. Programming of the PLC, OI and SCADA system will be by the City. Coordinated with two Civil Engineering companies, the City and another Civil/Electrical Engineering company on project.

City of Hayward – Electrical Engineer in charge for the design of the Garin Tank and Booster Pump Station. Project included retrofitting entire pump station and providing new service, generator, automatic transfer switch, MCC, instrumentation, and pump controls. Second site included addition of reservoir and new control panel. Construction services were also provided including PLC programming and SCADA.

City of Woodland - Electrical Engineer in charge on the City of Woodland ASR Well 28 project. Project includes replacing existing water well, chemical systems, control buildings, and security camera system. The RTU was designed to match the new City standard. ATEEM provided programming of the PLC, OI and SCADA system under a separate contract.

Calaveras County Water District, Arnold, CA – Electrical project engineer for installing the SCADA system to remotely monitor and control pump stations and water storage tanks from a water treatment plant. District was able to recoup this investment with the reduction of staff overtime while providing more information, flexibility and control over their water system.

Erik E. Burns, P.E.

Education
B.S., Interdisciplinary Engineering (Biomedical and Electrical),
Purdue University, *1996*

Registration
Control System Engineer / California
CS7315

Experience
A T.E.E.M. Electrical Engineering, Inc. 2003-Present
Dublin Technical Systems, 1996-2003

Affiliations
California Water Environment Association
National Fire Protection Association
Institute of Electrical and Electronic Engineers
Instrument Society of America

Erik Burns, our *Control Systems Engineer/Engineering Manager* has been with ***A T.E.E.M*** for the past 18 years, and is a State of California registered Professional Engineer. Mr. Burns has over 24 years of specialized experience in wastewater, water, food, beverage, manufacturing, and power generation engineering projects. Mr. Burns has developed and installed numerous SCADA, PLC and graphic systems for sites ranging from small wells and pump stations to major water & wastewater treatment plants. These experiences have given Mr. Burns an understanding of system operations, as well as the type of information and graphics operators need in order to develop SCADA systems efficiently and appropriately for the sophistication of the system.

EXPERIENCE

City of Woodland, CA– Developed new programming standard and replaced existing Well PLC/OI programs for 20 well sites. Improved existing poll cycle from 2 minutes down to 17 seconds. Performed modifications to existing iFix HMI (and Factory Talk View ME) programming at the City's WWTP.

City of Hayward, CA– Repaired and replaced existing radio network polling over 30 sites. Performed new PLC and Radio installation sites and modifications to SCADA radio networks, polling strategies, data collection and storage, and HMIs located at the RTU control panel sites as well as Wonderware and Factory Talk View ME HMI programming.

Calaveras County Water District, CA – Developed and implemented Control Panel standards for the PLCs, motor control wiring, backup controls, etc. for two- and three-pump systems (including Lift Stations), using full speed, soft starter or VFD control. This standard has been applied throughout the entire District for modernization of existing equipment. Performed new installation sites and modifications to SCADA radio networks, polling strategies, data collection and storage, and HMIs located at the RTU control panel sites as well as Wonderware HMI programming.

City of Santa Rosa, CA– Replaced outdated Allen-Bradley HMIs with new 15" HMIs and integrated two new wells and overall control to the existing Water Treatment Plant.

City of Hayward, CA– Replaced Wonderware SCADA system with Ignition including over 30 remote sites and over 17,000 tags, SQL based trending, and remote alarm notification.

City of Placerville, CA– Replaced outdated Allen-Bradley SCADA, servers, and HMIs. Maintains, troubleshoots, and support SCADA, PLCs, and equipment. Modified existing controls to improve operation and power usage.

City of Woodland, CA– Developed and installed programming for two ASR Wells. Performed modifications to existing iFix HMI (and Factory Talk View ME) programming at the City's WWTP.

City of Woodland, CA– Developed and installed programming for new Well 28, including programming for future ASR function. Finalized ASR functionality with the City a few years later. Performed modifications to existing iFix HMI (and Factory Talk View ME) programming at the City's WWTP.

City of Woodland, CA– Developed programming for improved performance at Well 26. Performed modifications to existing iFix HMI (and Factory Talk View ME) programming at the City's WWTP.

Calaveras County Water District, CA – Developed and implemented Control Panel standards for the PLCs, motor control wiring, backup controls, etc. for two- and three-pump systems (including Lift Stations), using full speed, soft starter or VFD control. This standard has been applied throughout the entire District for modernization of existing equipment. Performed new installation sites and modifications to SCADA radio networks, polling strategies, data collection and storage, and HMIs located at the RTU control panel sites as well as Wonderware HMI programming.

El Dorado Irrigation District, CA – Performed SCADA duties for tanks, booster pump stations, and water treatment plants. Programming duties included radio communication, HMI graphics and trending, PLC programming and integration with existing systems. Electrical and instrumentation duties included instrument checkout, I/O checkout, and equipment terminations and checkout.

UC Davis Facilities Services – Developed SCADA Master Plans for Drinking & Utility Water and Sewer & Solid Waste Systems. The SCADA system utilized Ethernet Wi-Fi radios with their existing intranet which improved the University's mobile network while providing a safe path for Utility System Ethernet traffic. Control panels, equipment, and instrumentation were standardized to allow rapid implementation of new and replacement of existing control systems.

Xiaoming Li, M.S., P.E.

Education
PhD. Electrical Engineering Courses, Washington State University, Pullman, WA, *2001~2003*
M.S. Electrical Engineering, University of Idaho, Moscow, ID, *2001*
MBA, Xiamen University, China, *1996*
B.S. Electrical Engineering, Jiangsu University of Science and Technology, Zhenjiang, China, *1988*

Registration
2007/Electrical Engineer / California
E18095

Experience
A T.E.E.M. Electrical Engineering, Inc. 2005-Present
Sierra Pine, 2003-2005
Xiamen Water Supply, 1988-1999

Affiliations
Institute of Electrical and Electronic Engineers

Xiaoming Li, ***A T.E.E.M.***'s Electrical Engineer with over 27 years of experience in the water and wastewater industry. Mr. Li has extensive electrical and controls background developing and programming PLC based SCADA systems. He has designed up to 12kV electrical distribution, pump and control systems for more than 20 water treatment plants and pump stations.

EXPERIENCE

City of Santa Rosa (in design) – Electrical project engineer on the Backup Generators at Water and Wastewater Facilities project. Electrical and instrumentation design for replacing existing generators at ten sewer lift station and eight water pump stations facilities. Electrical Design for included new transfer switch pedestals, detailed electrical modifications at each site, and new automatic transfer switches at others sites.

Calaveras County Water District (in design) – Electrical project engineer on the Lift Station 6, 8 15 & 18 Renovations project. Electrical and instrumentation design for replacing four existing sewer lift stations. Electrical Design for included new metering pedestals, main switchboard, pump controls, standby generator, ATSs, instrumentation, PLCs, radio communication to Central and power feed between two stations.

City of Lathrop (under construction) – Electrical project engineer on the AAFES West Coast Distribution Center Building 240 Water System project. Electrical and instrumentation design for two new sewer lift stations. Electrical Design for included new metering pedestals, pump controls, instrumentation, PLCs, radio communication to Central and new fiber optic cable between the two lift stations.

Western Municipal Water District – Electrical project engineer on the North Well 2 Equipping project. Electrical and instrumentation design for replacing well pump and motor controls. Design included two new building, power feed, main switchboard, ATS, standby generator, VFD pump controls, chemical systems, instrumentation and PLCs.

City of Woodland – Electrical project engineer on the North Regional Pond and Pump Station project. Electrical and instrumentation design for replacing existing storm drain pump station. Design included new building, power feed, main switchboard, Motor Control Center, manual ATS, soft starter motor controls, and standby generator.

City of Vallejo – Electrical project engineer on the finished Water Pump Station Electrification project. Electrical and instrumentation design for replacing existing diesel engine driven pumps with new VFD motor controls. Design included outdoor three new Motor Control Centers, manual transfer switches for three MCCs, new electrical in existing electrical/pump building, three 18-pulse (125HP) VFD drives, provisions for five future VFD pumps.

City of Modesto – Electrical project engineer for the Well 70, Well 229 and Tivoli Wells. Each design included new electrical service, well, outdoor main switchboard, automatic transfer switch, standby generator, RTU and pump controls. Two of the sites included new buildings to house chemical system and electrical controls. Construction services were also provided.

City of Santa Rosa – Electrical project engineer on the Farmers Lane Well System Upgrade project. Electrical and instrumentation design for a new water pump station. Electrical Design for upgrading existing Well Pumps 4-1 and 4-2. Improvements included new building, power feed, main switchboard, MTS, pump controls, instrumentation and PLCs.

City of Fairfield – Electrical project engineer on the North Bay Regional WTP Ozone project. Electrical and instrumentation design for replacing two existing Ozone units.

City of Fairfield – Electrical project engineer on the Canon Pump Station project. Electrical and instrumentation design for a new water pump station located near the North Bay Regional WTP. Design included outdoor 600KW standby generator with sub-base fuel tank, load bank, electrical/pump building, three 18-pulse (125HP) VFD drives with provisions for two additional pumps. Conduits and pullboxes were provided for future two each 2MG reservoirs.

Reclamation District 1000 – Electrical project engineer on the SCADA Improvements for the Reclamation District 1000. Design included replacing existing LIQ 7 controllers at six remote pumping plants and designing new PLC and SCADA system. Existing sites had no remote monitoring and little control. ATEEM worked with District staff to discuss available SCADA options and new alarming and control of plants.

UC Davis - Electrical Project Engineer for Design Services for the UC Davis Primary Sanitary Sewer and Storm Drain Lift Station Improvements project. Project includes replacing existing electrical controls for five sanitary sewer lift stations and eleven storm drain pump stations. Three different standard pump control panels were designed to replace the existing motor controls. The RTU panels were provided by the University to connect to the pumps, instruments and new panels. ATEEM worked closely with the University to identify the best communication method to each site.

Technical Specialties

- ✓ Infrastructure design
- ✓ Hydro-electric Design
- ✓ Project Management
- ✓ Construction Management
- ✓ QA/QC

Joe Domenichelli, P.E. - President

Project Role	**Project Principal/Quality Control/Quality Assurance**
Years of Experience	**36 total**
Registration	**Professional Engineer CA and NV**
Education	**B.S. Civil Engineering, CSU Chico**

As project principal, Mr. Domenichelli's responsibilities will include overall QA/QC and team management as well as design assistance and review. Mr. Domenichelli has more than 35 years of engineering experience primarily in the area of water resources engineering. He has provided a variety of services from master planning of water systems for entire communities to the design and construction management of municipal improvements such as water pipelines, pump stations and storage tanks. His understanding of the District's needs through similar work will allow him to provide management necessary to complete design and construction management services on time and on budget.

Applicable experience has included – Designs of water pipelines up to 48-inch diameter, WTP upgrades, water booster stations, PR stations, storage tanks, hydroelectric stations, canal lining, reclaimed water pipeline, reclaimed water booster station and automated trash rack systems. Also, provided water system masterplans and modeling, canal inventory and loss analyses.

Summary of Relevant Experience

Antelope Pump Station Project, Sacramento Suburban Water District (SSWD) – Project Management and Construction services for SSWD's Antelope Pump back project. The project will allow groundwater to be pumped from SSWD's system to San Juan Water District (SJWD)'s system through the Cooperative Transmission Pipeline.

City Creek Water Transmission Line – Design and construction support services for San Bernardino County Water District 18-inch 2400 feet of pipeline, PR station from the 60-inch Foothill Pipeline and intake piping to the East Valley WTP.

Pleasant Oak Main Project – Provided independent QA/QC, pipe material selection and pipeline alignment design for 4 miles of 36-inch treated water pipeline in difficult terrain for El Dorado Irrigation District.

Wholesale Water Transmission System Metering Improvements Project – SJWD – Project management, QA/QC for the project which, in total, replaced 33 meters and added approximately 1000 lineal feet of pipelines ranging in size from 8-inch to 72-inch.

QA/QC for all projects listed in this SOQ including the Rocklin Front Yard Main Relocation and Whitney Blvd. Main Replacement projects for PCWA. Provided QA/QC for over 200,000 feet of pipeline designs with SSWD and San Jose Water Company (SJWC).

Main Ditch Pipeline Design – Providing design for 3 miles of 42-inch water transmission pipeline to replace and existing ditch for El Dorado Irrigation District.

Hydroelectric Stations – San Gabriel Water Company, San Bernardino County Water District, Purdue (San Diego) WTP, Amador County Water Agency, El Dorado Irrigation District – Management and design for seven 350KW to 900KW in-conduit hydroelectric projects throughout the State. Five project use pumps as turbines (PATs) and one is a Pelton Wheel design. Eight (8) projects are currently on-line and two (2) under construction.

PCWA, Bowman & Foothill WTP Improvements – Provided design for pipe, building enclosure and catwalk improvements at the Bowman Treatment Plant. While with another firm, provided intake design for the Foothill Treatment Plant.

City of Folsom PR Stations – Provided design for two pressure reducing stations for the City of Folsom, one for an intertie with San Juan Water District and one to serve new development South of Highway 50.

PCWA Canal System Inventory – Provided inventory of PCWA canal systems including capacities, service metered flows, customer contracted flows and in line flow and volume tabulations and estimates. The report provided rough estimates of canal losses.

Technical Specialties

- ✓ Structural design
- ✓ Pump Station design
- ✓ WTP Improvement Design
- ✓ Storage Tank Design
- ✓ Hydro-electric Design

Daryl Heigher, P.E.

Project Role	**Senior Project Engineer**
Years of Experience	**25 total**
Registration	**Professional Engineer CA**
Education	**B.S. Civil Engineering, CSU Sacramento**

Mr. Heigher has been with Domenichelli and Associates since 2012. He is a California registered engineer with 25 years of experience and extensive experience in foundation design, gravity and pressure pipeline design, pump station design, hydraulic structure design, site layout, structural design, cost estimating, construction inspection, and shop drawing review. He has served as project engineer for the design of water and wastewater treatment plants, pipelines pump stations storage tanks and a variety of related structures.

Applicable project experience has included – designs of water treatment plants upgrades, water booster stations, pressure reducing stations, storage tanks, hydroelectric stations and trash screening systems. Structural designs for water treatment facilities including treatment plants, pump stations and hydroelectric stations, intakes, clarifiers, filters, hydraulic control structures, sludge pond design and miscellaneous other water system components.

Summary of Relevant Experience

Elizabeth George Water Treatment Plant – NID - Provided structural design, mechanical design, site layout, periodic construction inspection, submittal review. Facilities designed include headworks, filters, flocculators, sedimentation basins, sludge basins and modifications to the operations building.

Lake of the Pines Water Treatment Plant – NID - Provided structural design, mechanical design, site layout, periodic construction inspection, submittal review. Facilities designed include generator foundation, filters, clearwell, pump station, sludge basins, new filter control room and modifications to the operations building.

Auburn WTP – PCWA – Provided structural design for of the plant upgrades which included raw water screens, a raw water pump station, modular factory-built treatment units, 600,000 gallons filtered water clearwell, backwash pumps, high service pumps, solids thickener and centrifuge dewatering system.

Sunset WTP – PCWA – Provided structural design for the project that involved expansion of the plant to 8 mgd through modifications to existing sedimentation basins and the filters.

Antelope Pump Station Project - Sacramento Suburban Water District (SSWD) – Civil and mechanical design and Construction services for SSWD's Antelope Pump back project. The project included two 350 hp pumps, with provisions for a third and will allow groundwater to be pumped from SSWD's system to San Juan Water District (SJWD)'s system through the Cooperative Transmission Pipeline. Ultimate pumping capacity is 15,000 gpm. This project included a generator foundation.

Bridlewood Water Storage Tank – EID – Provided structural design for a $40 million upgrade to the existing plant, including foundations for multiple pieces of equipment, including a 2 megawatt generator.

Serrano Village C Recycled Water Storage Tank – EID – Provided foundation design services and site layout for a new 2MG recycled water storage tank to serve new development in El Dorado Hills.

EID On Call Projects – Provided civil and mechanical design of a multitude of large and small projects within an On-Call Services contract. Projects such as prioritizing existing tank renovations due to interior and exterior corrosion, design of pipe bracing, evaluation of multiple District facilities for structural weakness, evaluation of existing facilities for service access, evaluating existing pump systems to improve efficiency.

Granite Bay Booster Pump Stations – SJWD - Provided civil, mechanical and structural design for the Upper Granite Bay pump station. Also, provided structural design for the Lower Granite Bay pump station.

Moose Hall Pump Station – EID – Providing design and construction support services for the replacement of the existing Moose Hall Pump Station. The most significant challenge for this project was to keep the existing pumps operational while constructing the new station in the same footprint as the old station.

Charlie Czapkay, PLS 8297,
Professional Land Surveyor, Field and Office Chief

Mr. Czapkay has been a Licensed Land Surveyor in the State of California since 2007. Throughout his 20 plus year career with Area West Engineers, Inc., Mr. Czapkay has played a vital role as Field Party Chief. His surveying experience includes aerial mapping, control surveys, and extensive topographical projects using electronic data collection methods, as well as cadastral, boundary, GPS, right-of-way, and construction staking surveys for pipeline, site development and transportation projects. Being a Placerville resident, Mr. Czapkay is very excited for the opportunity to continue to be part of the District's team.

Professional Accomplishments and Education:

- 2001 - A.S. Surveying Santa Rosa Junior College, Santa Rosa, CA
- 2007 - California Professional Land Surveyor, PLS 8297

Relative Project Experience:

Intertie at Reservoir 3, EID Project, El Dorado, CA

Mr. Czapkay performed a preliminary boundary survey, easement research and topographical survey to assist in the design of the interconnection of EDM#1 and EDM#2. The topographical survey included the as-built design of the newly constructed water tank, along with incorporating the wet and dry utilities within the tank area. AWE staff reviewed the Preliminary Title Report for the property and plotted the existing easements. Upon completion of the topographical survey, the AutoCAD drawing files were supplied to EID staff for the design of the interconnection.

Outingdale Bathymetric Survey, EID Project, El Dorado, CA

Mr. Czapkay prepared a topographical survey of the existing pump house and Cosumnes River bottom for the upgrade of the pump design for the Outingdale Pump House. The topographical survey included tying to existing survey control and topographical information supplied by EID. The purpose of the survey was to establish the elevation of the river bottom, as well as the bottom and top of the existing dam. AWE also ran a level loop from the river to the existing Outingdale Pump House to determine the difference in elevation between the two. This was later used by EID staff to design the new pump and calculate the pressure loss from the river to the Pump House.

EDLS Topographical Survey, EID Project, El Dorado, CA

Mr. Czapkay performed a topographical survey for a length of 1,800 feet along South Street. The survey depicted the location of the existing gravel roadway, underground facilities, along with the aboveground appurtenances, existing fences and trees along the route. The topographical survey was prepared in order to assist the District's design engineer in the design of a new sewer main from the existing EID pump station to the existing sewer main in South Street at the existing creek crossing.

Silver Lake Campground, EID Project, El Dorado, CA

Mr. Czapkay performed the field work for the topographical survey which was prepared for District Engineers to design the new water pipeline. The survey began at the existing EID well above Silver Lake and ran along Highway 88, across the Silver Lake Spillway Bridge to the existing Silver Lake East Campground. The topographical survey included the existing walking path and roadway from the

intersection of Highway 88 and Kit Carson Road, through the Silver Lake West Campground. The survey depicted the existing roadway of Highway 88, including the shoulders and lane striping.

Park Hills Water Main Replacement Project, Sacramento, CA

AWE performed boundary, aerial and topographical surveys, and easement acquisition services for the design and installation of 10,000 linear feet of new water line. As AWE's Lead Land Surveyor, Mr. Czapkay, coordinated with the aerial company for the location of the nine flight panels, performed the necessary boundary and supplemental surveys required to complete the project. Upon the completion of the 30% plan phase, Mr. Czapkay prepared the required easement legal descriptions and exhibit maps, documentation and letters to the property owners for the properties that required an additional waterline and access easement. AWE enlisted the help of a local Title Company in order to obtain copies of current Preliminary Title Reports, copies of Grant Deeds and easements deeds. Mr. Richard Rozumowicz was responsible for reviewing the easement documents prepared by Mr. Czapkay for quality assurance and control.

Sacramento Suburban Water District Subsidence Survey – 2005 to 2011

AWE was asked to establish a district wide vertical control network and set benchmark disks for ninety-five of SSWD's well sites. The benchmarks are used to monitor future subsidence of the District's well facilities. As AWE's Party Chief, Mr. Czapkay coordinated and managed AWE's field crews, and was tasked with logging multiple GPS observations on twelve existing USGS Benchmarks that surrounded the project area. *With repetition comes accuracy.* Once a tight elevation was established between the found benchmarks, Mr. Czapkay began establishing elevations and setting new benchmarks on the well pump heads. Once completed, Mr. Czapkay provided SSWD with an Excel Spreadsheet showing the elevations in both NGVD 29 and NAVD 88 datum's. AWE was later contracted (2011), by the District, to establish an elevation and set eight additional benchmark disks.

Winding Way & Cameron Ranch Drive, Sacramento, CA (Well N9) – Record of Survey

AWE performed a boundary and topographical surveys, and prepared and processed a Record of Survey Map with the Sacramento County Surveyor's Office. As AWE's Lead Land Surveyor, Mr. Czapkay, coordinated with the District to gain access to the property to perform the thorough boundary survey that is required to prepare an accurate Record of Survey Map. Not only was an accurate and precise field survey a necessity for this project, an in-depth title search was required as well. Mr. Czapkay's extensive knowledge of title research aided him in his boundary determination. Upon completion of the boundary survey, Mr. Czapkay prepared and processed a Record of Survey Map with the Sacramento County Surveyor's Office.

Appendix B – Cost of Services

The following lists ***A T.E.E.M.***'s Standard Hourly Rates. Labor rates will stay the same for any overtime work charges to the project. These rates apply to all *hourly* services charged for design and management tasks on the project. All time and material services for the work will be invoiced on a monthly statement per the following rate schedule:

A T.E.E.M. ELECTRICAL ENGINEERING
RATE SCHEDULE

	2020-2022
P.E. Office Engineering:	$210 per hour
P.E. Field Engineering:	$220 per hour
Office Programmer:	$230 per hour
Field Programmer:	$240 per hour
Technical Assistant:	$120 per hour
Travel Expenses:	Included in hourly rate
Miscellaneous Expenses:	Cost + 5%

All hourly costs include standard office costs, such as copying and binding documents, telephone charges, insurance, overhead, computer usage, software and profit. Also included in the field engineering hourly rates are all travel costs to the project sites.

The rates **DO NOT** include lodging, rental equipment, and special project material when necessary. These miscellaneous expenses will be billed at cost + 5%.

A T.E.E.M. Electrical Engineering
8/25/2021

Type of Service: Electrical Design and Bid Services
Customer Name: El Dorado Irrigation District
Location: Various
Project Name: Emergency Backup Generator Upgrades

Project No.: 21040.01 & 21041.01 Work Order No.: _____ Task No.: _____

Field Prog = FP Office Prog = OP Field Eng = FE Office Eng = OE Technical = TA

Task	Description	Hourly Rate: $240 FP	$230 OP	$220 FE	$210 OE	$120 TA			
Electrical Design Services									
1	**Meetings and Site Visits:**								**$ 15,620**
	Kickoff Meeting	0	0	3	0	0	=	$ 660	
	Additional Meetings (2)	0	0	6	0	0	=	$ 1,320	
	50% Design Meeting	0	0	3	0	0	=	$ 660	
	90% Design Meeting	0	0	3	0	0	=	$ 660	
	Site Visits (7)	0	0	56	0	0	=	$ 12,320	
2	**Progress Reports and Schedules**								**$ 7,680**
	Monthy Progress Reports	0	0	0	16	4	=	$ 3,840	
	Schedule	0	0	0	16	4	=	$ 3,840	
3	**Project Design and Design Documents**								**$ 70,440**
	Electrical Drawings	0	0	0	180	120	=	$ 52,200	
	Division 16 Specification	0	0	0	40	32	=	$ 12,240	
	Preparation of Schedules	0	0	0	16	4	=	$ 3,840	
	Electrical & Instrumentation Cost Estimate	0	0	0	8	4	=	$ 2,160	
4	**PLC Control Panel Design and Design Documents**								**$ 14,550**
	Electrical Drawings	0	0	0	40	16	=	$ 10,320	
	Division 16 Specification	0	0	0	8	4	=	$ 2,160	
	Preparation of Schedules	0	0	0	4	4	=	$ 1,320	
	Electrical & Instrumentation Cost Estimate	0	0	0	3	1	=	$ 750	
5	**Civil Engineering & Land Survey**								**$254,405**
	Task 1 Project Management & QA/QC						=	$ 6,200	
	Task 2 - Meetings and Site Visits						=	$ 16,420	
	Task 3 - Site Survey						=	$ 117,810	
	Task 4 - Design								
	Background & Conceptual Layout						=	$ 30,080	
	Plans & Specifications						=	$ 36,500	
	Screenings (3 sites)						=	$ 7,080	
	Bypass Pumping						=	$ 19,160	
	Cost Estimate & QA/QC						=	$ 7,040	
	Expenses						=	$ 2,000	
	5% Overhead						=	$ 12,115	
		0	***0***	***71***	***331***	***193***		***$362,695***	

Total not to exceed cost (Design and Bid Services): **$362,695**

Notes: Design and bid documents will be provided per Item 3 of of General Scope of Services of the proposal.

_____ Date _____

Signature : Sharon M. Kimizuka, P.E.

Approval

_____ Date _____

Signature

CHARGE NO.:

El Dorado Irrigation District

Emergency Backup Generator Upgrades Project

Design Contract

Project No. 21040 & 21041

September 13, 2021

Previous Board Actions

- July 26, 2021 – Federal Emergency Management Agency Hazard Mitigation Grant Program Update

Summary of Issues

- The District received approval for over $1.8 million in Hazard Mitigation Grant Program (HMGP) funding for emergency backup generators

- A design contract is needed to develop bid documents

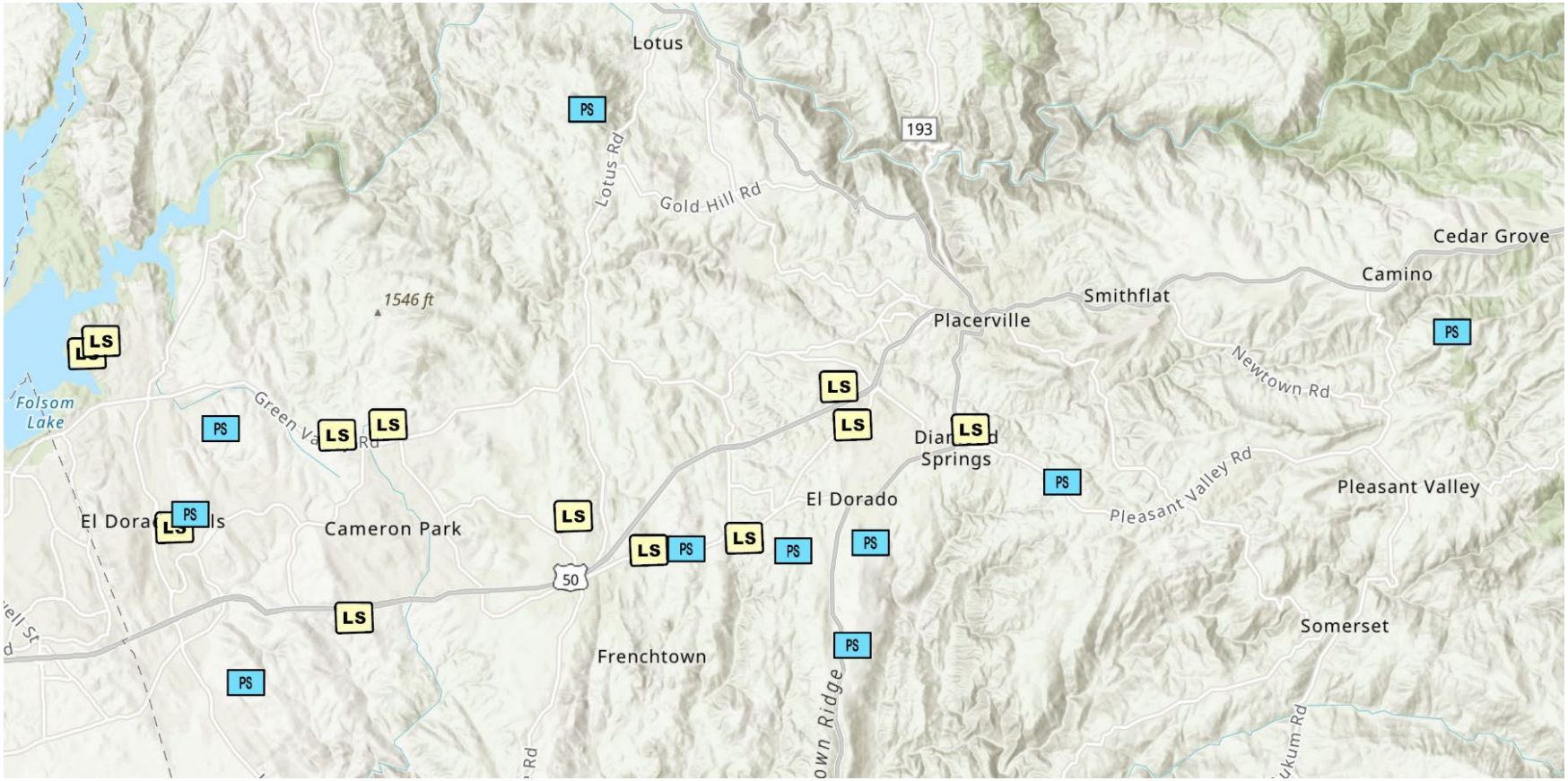
Background/Discussion

- The District applied for Hazard Mitigation Grant Program funding for 22 emergency backup generators in 2019
- FEMA and CalOES notified the District of funding approval in June 2021
- The District solicited a Request for Proposals for project design in July/August 2021

Project Scope of Work

- Perform preparatory site work
- Install backup generators
- Install automatic transfer switches (ATS)
- Integration with the District's Supervisory Control and Data Acquisition (SCADA) system
- Coordination with existing programmable logic controller (PLC) replacement design

Locations



El Dorado Irrigation District

Scope of Design Services

- Field survey
- Conceptual design
- Bid plans and specifications

Request for Proposals

- Solicitation July/August 2021

Consultant	Proposed Cost
ATEEM Electrical Engineering, Inc.	$362,695
Black & Veatch Corp.	$651,451
Frisch Engineering, Inc.	$597,240
M. Neils Engineering, Inc.	$763,381
P2S, Inc.	$1,013,799

Proposal Evaluation and Ranking

- Responsiveness to the RFP
- Experience and expertise
- Project team
- Cost

Staff recommends award to ATEEM Electrical Engineering, Inc.

Funding

Professional services contract	$362,695
Capitalized labor	$651,451
Contingency	$597,240
Total Funding Request	**$763,381**

- Proposal cost is higher than estimated in 2019
- Staff will request a formal budget increase to maximize FEMA reimbursement

Board Options

- Option 1: Award a contract to ATEEM Electrical Engineering, Inc. in the not-to-exceed amount of $362,695 for design of the Emergency Backup Generator Upgrades Project, and authorize additional funding of $70,000 for capitalized labor and $30,000 in contingencies, for a total funding request of $462,695 for the Emergency Backup Generator Upgrades Project, Project No. 21040.01 & 21041.01

Board Options

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

- Option 3: Take no action

Recommendation

- Option 1