Paradise Irrigation District
6332 Clark Rd, Paradise, CA 95969 · 530-877-4971 · Fax: 530-876-0483 · www.pidwater.com

**AGENDA**

**REGULAR MEETING**
**PARADISE IRRIGATION DISTRICT**
**BOARD OF DIRECTORS**
**PID BOARD ROOM**
**6332 CLARK ROAD, PARADISE, CA 95969**

**WEDNESDAY, SEPTEMBER 20, 2023 – 5:30 PM**

- *The Board of Directors is committed to making its meetings accessible to all citizens. Any person requiring a special accommodation to participate, is requested to contact the District Secretary at (530) 876-2039 at least 48 hours in advance of the meeting.*

- *The following options are available for members of the public interested in participating in the meeting remotely:*

  *Via Zoom Meeting:* https://us02web.zoom.us/j/88192841237
  *Telephone: +1 669 900 6833 US (San Jose)*
  *Meeting ID: 881 9284 1237*
  *To improve participation during the meeting, we will be accepting public comments from Zoom Meeting participants during the meeting. The Board cannot take action on any matter not on the agenda. Public comments specific to an agenda item will be read directly after the agenda item and before the Board votes on an item.*

  *Via Email or Telephone: Public comment will be accepted by email with the subject line PUBLIC COMMENT ITEM NO. ___ to gborrayo@paradiseirrigation.com or telephone (530) 876-2039 prior to 4:00 p.m. on the day of the meeting.*

**********

1. **OPENING**:
   a. Call to Order
   b. Public & Board Members; please silence your cell phones.
   c. Reflection and Pledge of Allegiance
   d. Roll Call

2. **PUBLIC COMMENT:**
   Individuals will be given an opportunity to address the Board regarding matters not scheduled on the agenda, although the Board cannot take action on any matter not on the agenda. Comments will be limited to 3 minutes per speaker. Opportunity for public comment on agenda items will be provided at the time they are discussed by the Board with comments limited to 3 minutes per agenda item.

3. **CLOSED SESSION:**
   a. Conference with Labor Negotiator pursuant to Government Code § 54957.6.
      Agency Designated Representative: Tom Lando, District Manager
      Employee Organization: General Unit represented by IBEW Local 1245

4. **ANNOUNCEMENT FROM CLOSED SESSION**

5. **APPROVAL OF CONSENT CALENDAR**: *Action may be taken.*
   a. Approval of Meeting Agenda Order
(Pg. 5-9) b. Approval of Minutes – Regular Meeting of August 16, 2023
   c. Approval of Letter of "Merit Rejection" - Claim for Damages

(Pg. 10-120) 6. **DRAFT AMENDMENT TO 2020 URBAN WATER MANAGEMENT PLAN – CONDUCT A PUBLIC HEARING TO REVIEW AND RECEIVE COMMENTS** (Colleen Boak, Water Works Engineers): *Action may be taken*.

a. Open Public Hearing
b. Presentation of Draft Amendment to the 2020 Urban Water Management Plan
c. Receive Public Comment
d. Close Public Hearing
e. Board of Director Comments and Questions

(Pg. 121-122) 7. **DRAFT AMENDMENT TO 2020 URBAN WATER MANAGEMENT PLAN – RESOLUTION TO ADOPT AMENDED PLAN DOCUMENT:** Adopt Resolution No. 2023-13 to reflect changes made to the Paradise Irrigation District amended 2020 Urban Water Management Plan. *Action may be taken*.

8. **TREASURER'S UPDATE:**

(Pg. 123-133) a. **Treasurer's Report**: Review and acceptance of the Treasurer's Report for the period ending August 31, 2023. (August Investment Summary) *Action may be taken*.

(Pg. 134-144) b. **Expense Approval Report**: Approval of payments consisting of check numbers 57984 through 58007 in the amount of $1,368,733.67, and electronic payments of $4,717,633.87 by EFT for the month of August 2023 for total payments of $6,086,367.54, excluding voided check numbers 58002 through 58004, and authorization of a similar amount allowing or adjusting for extraordinary budget or Board approved items during the month of September 2023. *Action may be taken.*

(Pg. 145-163) 9. **PID STAFF & CONSULTANT REPORT UPDATES**: Verbal and written report updates from staff and consultants. *Informational Report Updates. Direction may be given.*

a. District Manager's Report
(Pg. 145-146) b. Strategic Plan Progress Report
(Pg. 147-148) c. Customer Service Activity Report
(Pg. 149-150) d. Field Operations Staff Report
(Pg. 151-154) e. Water Treatment Plant Staff Report
(Pg. 155) f. Engineering Report
(Pg. 156-163) g. Water Supply Recovery Program Update: Progress update provided by Water Works Engineers
h. Post Fire Disaster Public Assistance & Recovery Management Services Update: Update provided by Aptim Environmental & Infrastructure.

10. **COMMITTEE REPORTS**: *Information Item Only*.
Board oral report(s) regarding representation on Commissions/Committees/Conferences:
a. Finance Committee (Directors Chris Rehmann & Bob Matthews – Chairperson)

11. **UNFINISHED BUSINESS:**

(Pg. 164-171) a. **PID Schedule of Fees and Charges** (Mickey Rich, Assistant District Manager): Authorization to adopt proposed revisions to the PID Schedule of Fees and Charges. *Action may be taken*.

12. **NEW BUSINESS:**

(Pg. 172-178) a. **PID / BCFSC Memorandum of Understanding Revision** (Mickey Rich, Assistant District Manager): Discussion with Callie-Jane West, Executive Director with Butte Fire Safe Council and Dan Efseaff, District Manager with Paradise Recreation & Park District regarding the Fuelbreak Plan, and approval to authorize the Memorandum of Understanding between Butte Fire Safe Council and Paradise Irrigation District as presented. *Action may be taken*.

b. **Meter Service Department – Proposed Changes** (Tom Lando, District Manager). Authorization of new and amended job descriptions in the Meter Service Department. *Action may be taken*.

(Pg. 179-181) c. **PID Electronic Sign Design Review** (Mickey Rich, Assistant District Manager): *Information Item Only.*

(Pg. 182-183) d. **Approval of Expenditures for HVAC Maintenance** (Mickey Rich, Assistant District Manager): *Action may be taken.*

(Pg. 184-185) e. **Reservoir B Replacement Project - Recommendation for Budget Amendment with Myers and Sons Construction, LLC** (Blaine Allen, District Engineer): Authorize staff to execute an additional contingency funding amount with Myers and Sons Construction, LLC for a not-to-exceed total cost of $9,638,000. *Action may be taken*.

13. **DIRECTORS' COMMENTS**: *Information Item Only*.

14. **ADJOURNMENT**

CONSENT CALENDAR
REGULAR MEETING
PARADISE IRRIGATION DISTRICT
BOARD OF DIRECTORS

WEDNESDAY, SEPTEMBER 20, 2023 – 5:30 PM

AGENDA ITEM 5 – APPROVAL OF CONSENT CALENDAR:

A. APPROVAL OF MEETING AGENDA ORDER

B. APPROVAL OF MINUTES – REGULAR MEETING OF AUGUST 16, 2023
**Action Requested:** Approve Minutes for the regularly scheduled meeting of the Board of Directors on August 16, 2023.

C. APPROVAL OF LETTER OF "MERIT REJECTION" - CLAIM FOR DAMAGES:
**Action Requested**: Formally return and reject claim for damages for 8764, 8774, and 8784 Skyway in Paradise in reference to property and approve Letter of "Merit Rejection" for submittal to ACWA Joint Powers Insurance Authority.

MINUTES

REGULAR MEETING
BOARD OF DIRECTORS
PARADISE IRRIGATION DISTRICT
AUGUST 16, 2023

The regular meeting of the Board of Directors of the Paradise Irrigation District (PID) was called to order at 5:30 p.m. by President Shelby Boston followed by a reflection and The Pledge of Allegiance to the Flag of the United States of America. — OPENING

| | | |
|---|---|---|
| BOARD MEMBERS PRESENT: | Directors Marc Sulik, Elliott Prest, Vice President Bob Matthews, and President Shelby Boston | ROLL CALL |
| BOARD MEMBERS ABSENT: | Director Chris Rehmann | |
| STAFF PRESENT: | District Manager Tom Lando, Assistant District Manager Mickey Rich, Finance Manager/Treasurer Brett Goodlin, District Engineer Blaine Allen, WTP Superintendent Rebekah Sorensen, Administrative Assistant Sarah Fenton, and Secretary Georgeanna Borrayo | |
| ALSO PRESENT: | Consultants Sami Kader and Colleen Boak with Water Works Engineers, Nicole Maddox and Brandon Kanatani with APTIM Environmental & Infrastructure, and members of the public | |

No public comments were received. — PUBLIC COMMENT (Item 2)

President Boston announced the Board will adjourn to closed session to discuss agenda items 3.a. and 3.b. Following an opportunity for public comment, the Board adjourned to closed session at 5:34 p.m. regarding the following: — CLOSED SESSION (Item 3.a. to 3.b.)

3.a. Public Employment and Public Employee Performance Evaluation of the District Manager (Government Code § 54957).

*Closed Session Announcement: Direction has been provided to counsel and staff.*

3.b. Conference with Labor Negotiator pursuant to Government Code § 54957.6.
Agency Designated Representative: Tom Lando, District Manager
Employee Organization: General Unit represented by IBEW Local 1245

*Closed Session Announcement: Direction has been given to the agency designated representative*.

President Boston reconvened the regular meeting at 5:40 p.m. and provided closed session announcement information as listed in italicized print under each closed session item above. — CLOSED SESSION ANNOUNCEMENT (Item 4)

APPROVAL OF CONSENT CALENDAR (Item 5.a. to 5.d.)

District Manager Tom Lando recommended tabling agenda items under new business for further review: 11.a. - PID Fuel Break Treatment Plan for review by the Administration & Personnel Committee, and agenda item 11.f. – Meter Service Department Proposed Changes.

Board members reviewed consent calendar items as follows:

5.a. Approval of Meeting Agenda Order
5.b. Approval of Minutes – Regular Meeting of July 19, 2023
5.c. Approval of Letter of "Merit Rejection" for submittal to ACWA Joint Powers Insurance Authority
5.d. Approval of Resolution 2023-12 Declaring Surplus Property – 2010 Dump Truck (Unit No. 42)

It was moved by Director Matthews and seconded by Director Sulik to approve Consent Calendar items as presented, excluding new business agenda items 11.a. and 11.f. Directors' votes were polled as follows by roll call:

AYES: Directors Matthews, Sulik, Prest, and President Boston
NOES: None
ABSENT: Director Chris Rehmann
**Motion passes 4-0**

DISCUSSION – DISCONTINUED SERVICE METERS (Item 6.)

Board members reviewed customer communications received from Will Brown and Benedict Di Duca relating to additional capacity charges for parcels moving from the Disconnected to Ready to Serve or Active rates after the deadline.

Attorney Dustin Cooper reported reviewing the material and speaking with PID staff and indicated it would be his recommendation to decline their request for reconsideration. It is necessary to draw the line at some point and if you entertain these requests, then the Board is going to entertain future requests. Mr. Di Duca executed PID's form to end water service on multiple accounts, which very clearly put him on notice he was subject to future charges.

It was moved by Director Matthews and seconded by Director Prest to deny the request from Will Brown in reference to 2382 Tokay Court, Paradise, California.

AYES: Directors Matthews, Sulik, Prest, and President Boston
NOES: None
ABSENT: Director Chris Rehmann
**Motion passes 4-0**

It was moved by Director Sulik and seconded by Director Matthews to deny the appeal request from Benedict Di Duca dated July 30, 2023.

AYES: Directors Matthews, Sulik, Prest, and President Boston
NOES: None
ABSENT: Director Chris Rehmann
**Motion passes 4-0**

ACCEPTANCE OF TREASURER'S REPORT FOR PERIOD ENDING JULY 31, 2023

Board members reviewed a written Treasurer's Report prepared by Finance Manager / Treasurer Brett Goodlin for the period ending July 31, 2023, highlighting the District's cash position, debt service analysis, operational overview, and investment income. Treasurer Goodlin noted a correction under item 4 – Expenses, stating the YTD amount for Source of Supply and Treatment is shown as $76,454. The correct figure is **$152,907**.

It was moved by Director Prest and seconded by Director Matthews to accept the Treasurer's Report as for the period ending July 31, 2023.

CONTINUED – ACCEPTANCE OF TREASURER'S REPORT (Item 7.a.)

AYES: Directors Matthews, Sulik, Prest, and President Boston
NOES: None
ABSENT: Director Chris Rehmann
**Motion passes 4-0**

Board members reviewed accounts payable expense reports for the month of July 2023. It was moved by Director Prest and seconded by Director Sulik to approve payments consisting of check numbers 57964 through 57983 in the amount of $1,396,904.96, and electronic payments of $1,929,333.07 by EFT for the month of July 2023 for total payments of $3,326,238.03, and authorization of a similar amount allowing or adjusting for extraordinary budget or Board approved items during the month of August 2023.

EXPENSE APPROVAL REPORT FOR THE MONTH OF JULY 2023 APPROVED (Item 7.b.)

AYES: Directors Matthews, Sulik, Prest, and President Boston
NOES: None
ABSENT: Director Chris Rehmann
**Motion passes 4-0**

Board members reviewed written Staff and Consultant Report updates provided in the agenda packet. Discussion included: 1) A preliminary review of the Draft Municipal Service Review Update prepared by Swale, Inc.; 2) Completion of the Classification Study by CPS HR Consulting with the next phase to focus on the Compensation Study; 3) Scheduling a work session after the beginning of the year to review the Strategic Business Plan; 4) Factors that can impact water pressure in certain areas; 5) Water Supply Recovery Program Update from Water Works Engineers; and 6) Post Fire Disaster Public Assistance & Recovery Management Services update from Nicole Maddox and Brandon Kanatani with Aptim Environmental & Infrastructure.

PID STAFF & CONSULTANT REPORT UPDATES (Item 8.a. – 8.h.)

Finance Committee: Director Matthews reported discussion at the August 3rd committee meeting included additional options to accept payments online, potential discussions with the Town of Paradise about managing the Fire Hydrant Fund, which provides a mechanism for the installation, repair, and maintenance of fire hydrants, and revisions to the Investment Policy to be presented under new business item 11.c. The next committee meeting will be held on Thursday, September 7, 2023 at 8:00 a.m.

Community Relations Committee: Director Sulik announced a meeting was held on August 8th, which included updates regarding the electronic sign for installation at the site of the PID administration building, public outreach review by Cedar Creek, and coordination of notifications for the Reservoir B tie-in. The next committee meeting is scheduled on Tuesday, October 10, 2023 at 8:00 a.m.

COMMITTEE REPORTS (Item 9.a. & 9.b.)

Unfinished Business: No unfinished business to report.

UNFINISHED BUSINESS:

President Boston confirmed prior to review of the Consent Calendar, the Board of Directors concurred to table this item and refer to the PID Administration & Personnel Committee for review.

PID FUEL BREAK TREATMENT PLAN AGENDA ITEM TABLED (Item 11.a.)

PID SCHEDULE OF FEES AND CHARGES ITEM TABLED (Item 11.b.)

Assistant District Manager Mickey Rich indicated the proposed schedule of fees is representative of the current costs to provide non-property related services. In addition to evaluating an increase to the $25.00 citation amount for non-compliance under the Wise Water Use Guidelines, staff is reviewing questions with Legal Counsel relating to potential penalty fees for infrastructure damage. Board members agreed to table this item and bring back for discussion following review with Legal Counsel.

REVISIONS TO PID INVESTMENT POLICY ADOPTED (Item 11.c.)

Rick Wood, Chief Financial Officer for the California Special District's Association, attended the July Finance Committee meeting and recommended some minor changes to the Investment Policy. The proposed revisions include updating positions within the district with investment authority, as well as simplifying investment limitation language to reference current California Government Code § 53601 in lieu of providing a specific list of allowed investment types.

It was moved by Director Sulik and seconded by Director Matthews to adopt the proposed revisions to Chapter 14.A – Investment Policy.

AYES: Directors Matthews, Sulik, Prest, and President Boston
NOES: None
ABSENT: Director Chris Rehmann
**Motion passes 4-0**

PID / TOWN OF PARADISE LIAISON COMMITTEE (Item 11.d.)

District Manager Tom Lando discussed holding the PID/TOP Liaison meetings on an as needed basis and if the Board concurs, he will plan to include this as a discussion item during his meeting with the new Town Manager. Board members concurred with this suggestion. **Informational item only**.

CONCEPT APPROVAL FOR PIPELINE EXTENSION PROJECT FOR MOOSE LODGE AT 5275 SKYWAY APPROVED (Item 11.e.)

District Engineer Blaine Allen reported the proposed pipeline extension project is for the Moose Lodge located at 5275 Skyway, which consists of a new 6-inch C-900 pipeline, as well as a meter, fire hydrant, and fire suppression system. An easement of approximately 20 feet will be granted to PID for the new pipeline.

It was moved by Director Matthews and seconded by Director Prest to authorize the approval of concept for the 6" main extension at 5275 Skyway and authorize the District Manager to enter into a Water Service Facilities Agreement with the owners of 5275 Skyway in Paradise.

AYES: Directors Matthews, Sulik, Prest, and President Boston
NOES: None
ABSENT: Director Chris Rehmann
**Motion passes 4-0**

METER SERVICE DEPT. PROPOSED CHANGES TABLED (Item 11.f.)

President Boston confirmed the announcement to table this item was made at the beginning of the meeting prior to review of the consent calendar.

DIRECTORS' COMMENTS

Director Matthews: Commented he is happy to be here.

Director Sulik: Acknowledged the good work of staff and consultants.

Director Prest: Echoed Director Sulik's comments and thanked President Boston for her reflection regarding support of residents in Maui affected by the wildfire.

ADJOURNMENT OF MEETING

There being no further business, it was moved by President Shelby Boston to adjourn the regular meeting. The regular meeting of the PID Board of Directors was adjourned at 7:40 p.m.

Georgeanna Borrayo, Secretary

Shelby Boston, President

AGENDA ITEM 5.c.
Approval of Letter of "Merit Rejection" - Claim for Damages

Paradise Irrigation District
6332 Clark Rd, Paradise, CA 95969 · 530-877-4971 · Fax: 530-876-0483 · www.pidwater.com

DATE: September 18, 2023

TO: Board of Directors

FROM: Tom Lando, District Manager
Mickey Rich, Assistant District Manager

SUBJECT: Letter of "Merit Rejection" – Claim For Potential Damages
8764, 8774 & 8784 Skyway, Paradise, California
09/20/2023 Board of Directors Meeting

**Background**:

Paradise Irrigation District has received correspondence from Audrie Kleinert expressing concerns in reference to property damage to her properties over the course of construction for the Reservoir B Replacement Project. The most recent correspondence is dated September 1, 2023 and identifies Ms. Kleinert's cost estimation for some of the concerns outlined in this letter. The initial letter dated August 13, 2023 is also provided. Following this memo is the Letter of "Merit Rejection", PID's Incident Report Form, and correspondence received from the property owner.

The District, as a public entity, is bound by certain Government Code regulations relating to claims. This claim will be forwarded to ACWA Joint Powers Insurance Authority for processing; however, the JPIA cannot process the claim unless the District has formally "rejected" the claim at its level. Following is a rejection letter that will be sent to the claimant upon Board authorization as a formality to meet the legal requirement.

Action Requested:

"Formally reject claim for potential damages submitted by Audrie Kleinert for 8764, 8774, & 8784 Skyway, Paradise, California and approve the letter of merit rejection for submittal to ACWA Joint Powers Insurance Authority to process and respond to the claim."

Paradise Irrigation District
6332 Clark Rd, Paradise, CA 95969 · 530-877-4971 · Fax: 530-876-0483 · www.pidwater.com

September 20, 2023

Audrie Kleinert
55 Cherry Lane
Oroville, CA 95965-4470

RE: Customer Claim for Damages – 8764, 8774, and 8784 Skyway, Paradise, CA 95969

Dear Ms. Kleinert:

Notice is hereby given that the claim which you presented to the Board of Directors of the Paradise Irrigation District on September 7, 2023 was rejected on September 20, 2023.

WARNING

Subject to certain exceptions, you have only six (6) months from the date this notice was personally delivered or deposited in the mail to file a State Court Action on this claim. See California Government Code §945.6. Your time for filing an action in federal court may be less than this six months.

You may seek the advice of an attorney of your choice in connection with this matter. If you desire to consult an attorney, you should do so immediately.

In providing this notice, or by any other action it has taken on this claim, Paradise Irrigation District does not intend to relinquish or waive any of its legal claim requirements or any rights or defenses potentially available to Paradise Irrigation District or its officers, directors, employees, or agents.

Should you file a lawsuit in this matter which is determined to be in bad faith and without reasonable cause, please be advised that Paradise Irrigation District will attempt to recover all of its defense costs from you as allowed by California Code of Civil Procedure § 128.5, § 128.7 and §1038.

If you have any questions about your claim, or this letter, please contact the claims administrator with the Association of California Water Agencies (ACWA/JPIA) at 1-800-231-5742.

Sincerely,

Tom Lando
District Manager

cc: ACWA-JPIA
Mickey Rich, Assistant District Manager
Blaine Allen, District Engineer
Tiffany Bowen, PID Office & Customer Service Manager

# Non-Auto Only Incident Report Form

Send To JPIA

**For Member Agency Use Only**

| | |
|---|---|
| Member Agency: (name and address)<br>Paradise Irrigation District<br>6332 Clark Road<br>Paradise, CA 95969 | Mail To:<br>ACWA JPIA<br>P. O. Box 619082<br>Roseville, CA 95661-9082 |
| Phone No: (530) 877-4971 | Previously Reported: Yes ☐ No ☐ |
| Date of Accident: MM/DD/YYYY: 08/01/2022 Time of Accident 8:00 am | Reported by: Phone Number: |
| Location of Loss (including city, state & zip):<br>8764, 8774, & 8784 Skyway, Paradise, CA 95969 | Authority Contacted & Report No: |

Description of loss: According to claim: Property Damage due to vehicle traffic on property during project. Charging for use of land for vehicles parked on property. Cost of moving and storing mailbox claimed to be hit by contractor. Fencing not being repaired in a timely manner per the customer. This is claimed to have been done over the course of the construction project that started in August of 2022 and is set to be completed October of 2023.

| | | |
|---|---|---|
| Property Owner's Name:<br>Audrie Kleinert | Primary Phone No:<br>(530) 353-3176 | Secondary Phone No: |
| Address (including city, state & zip):<br>55 Cherry Lane, Oroville, CA 95965-4470 | | Estimate of Damages:<br>$7,050.00 |

Describe Damaged Property: According to the claim from customer: Ruts in road path caused by contractor vehicles, also causing possible underground plumbing damage. Mail boxes knocked down by contractor.

PID does not believe the claimed damages are a result of the project work.

| | | |
|---|---|---|
| Property Owner's Name: | Primary Phone No: | Secondary Phone No: |
| Address (including city, state & zip): | | Estimate of Damages: |

Describe Damaged Property:

**INJURED**

| | | |
|---|---|---|
| Name & Address (including city, state & zip): | Phone No: | Age: |

Extent of Injury:

**WITNESSES**

| | |
|---|---|
| Name & Address (including city, state & zip):<br>Blaine Allen 6332 Clark Rd., Paradise, CA 95969 | Phone No:<br>(530) 876-2062 |
| Name & Address (including city, state & zip): | Phone No: |

| | | |
|---|---|---|
| This report prepared by: Blaine Allen | Date: 09/18/2023 | Time: 12:30 am |

**Please keep a copy of this form for your files.**

Revised - August 2019

9-1-23

TO TOM LANDO & P.I.D,

THIS IS IN REFERENCE TO MY 8-13-23 LETTER IN ORDER TO GET CLAIM STARTED & NOT AT A "STAND-STILL". I NUMBERED THE PROBLEMS - YOU WANT $ AMOUNTS. I'LL QUICKLY DO MY BEST.

① A FENCE NEVER REPAIRED - - - - - $ 500.-

B. WE REMOVED LIMB ON FENCE - CUT, LOADED & TOOK TO DUMP. - - - - - - - - $ 200.-

C. P.I.D. FAILED TO REMOVE BARB-WIRE AFTER SAYING THEY WOULD STILL FINDING PIECES. DELIBERATE ENDANGERMENT & POSSIBLE LAWSUIT - - $ 2,000.-

② ON GOING TRESSPASSING ALL OF 2023 ON 8764, 8774, 8784 SKYWAY. 9 MO. @ $50. MO EACH FOR 8774 & 8784 and $250 MO = FOR 8764 = $350 MO - - - - - - - - - - - - - - - - $ 3,150.-

* ROADS NEED RE-GRADING & GRAVEL SEE ⑤.

③ WILL HAVE CONTRACTORS FOR ESTIMATES IF NECESSARY. - - - -

④ INCLUDED IN ②.

⑤ ROAD DAMAGE - RE-GRADING & GRAVEL & POSSIBLE FILL DIRT WHERE HEAVY TRUCKS CAUSED GROUND TO SINK.

IF WE "CAN'T", JUST GET TOGETHER & TRY TO RESOLVE THINGS & I HAVE TO SPEND TIME & MONEY FOR ESTIMATES, EVERY ITEM WILL COST US BOTH MORE FOR TIME, EXPERTS, POSSIBLE ATTORNEYS.

MOBILE HOME PARK DAMAGE TO SPACES - PLUMBER CHECK FOR LEACH-LINE DAMAGE, & UNDERGROUND LINES, ETC. -

⑥ NO COOPERATION FROM TOM LANDO, DIST. MGR RE: DAMAGED MAIL BOXES BY R.I.D. WATER TRUCK--NOT EVEN A PHONE CALL! FINALLY MY SON HAD A VERY HARD TIME LOADING + DRIVING THE 3 MAILER SET TO OROVILLE FOR SAFE KEEPING. I FEEL THIS WAS TOTALLY UN-NECESSARY WHEN I TOLD TOM (WHILE HE WAS AT THE MOBILE PARK (HOURS AFTER THE DAMAGE OCCURED) TO MOVE THEM THROUGH THEIR GATES FOR SAFE KEEPING. $200.- LOADING, STORING. COST TO RE-SET MAIL BOXES AFTER LOADING + RETURNING MAIL BOXES - TOTAL $ 1,200.-

SEPERATE ITEM

FF FENCE AT S/E CORNER OF 8764 PROPERTY IS "ACCIDENTLY" RE-INSTALLED (AGAIN) NOT ALONG THE STRAIGHT PROPERTY LINE - I WANT IT IMMEDIATELY REMOVED + PUT BACK ALONG THE PROPERTY LINE CREATED WHEN R.I.D. TOOK THE MIDDLE OF MY M.H.P. BY EMINENT DOMAIN. FAILURE TO DO SO WILL RESULT IN IMMEDIATE LEGAL ACTION.

*** YOUR TALL RED PLASTIC CONES RE APPEARED IN SPITE OF MY 6-15-23 LETTER TO REMOVE + NO TRESSPASSING. YOU ACT LIKE YOU THINK YOU OWN MY PROPERTY. IF THAT'S THE CASE - THEN PURCHASE IT. I'M AVAILABLE TO OPEN ESCROW RIGHT NOW! I WANT THIS RESOLVED QUICKLY - CAN'T WE MEET + RESOLVE THINGS, OR AT LEAST GET THINGS STARTED? Audrie Klaisner 530-353-3176

P.S. — WHEN I SAID "PURCHASE IT" I WAS REFERRING TO THE LITTLE TRIANGLE PIECE OF LAND "PID ACCIDENTLY" FENCED OFF DURING THE EMINENT DOMAIN FOR THE ORIGINAL RESERVIOR. THAT TRIANGLE WILL BE A MINIMUM OF $25,000.00 IF YOU DECIDE TO ACCIDENTLY RE-FENCE IN THE WRONG LOCATION & NOT ALONG THE STRAIGHT PROPERTY LINE. IF I AM FORCED TO GO TO COURT, THE COURT COSTS & ATTY CHARGES WILL BE ADDED.

SORRY THIS HAS TURNED INTO A 3 PAGE LETTER. IT WOULD BE SO MUCH EASIER IF WE COULD JUST SIT DOWN & TRY RESOLVE THINGS INSTEAD OF TURNING THIS INTO A BATTLE (SO UN-NECESSARY). I MAY BE OLD & WITHOUT A COLLEGE DEGREE, BUT I WAS BLESSED WITH COMMEN SENSE & AS LONG AS I'M "ON THIS SIDE OF THE GRASS" I'LL TRY MY BEST NOT TO BE BULLIED BY P.I.D. OR ANY OTHER BIG COMPANY. LET'S TRY & WORK OUT A FAIR AMOUNT & ACT LIKE INTELLIGENT PEOPLE.

WHEN CAN WE MEET & WORK ON RESOLIVING THE PROBLEMS, O.K.?

Audrie

8-13-23

DEAR TOM LANDO, DIST. MGR. PARADISE, CA. P.I.D.,

SORRY THIS IS TAKING SO LONG, BUT IVE BEEN TO ILL TO DO THE LIST YOU REQUESTED BEFORE NOW. IT'S NOT COMPLETE BUT I'LL GET IT TO YOU & WE CAN GO FROM THERE.

(1) 2-22-22 I CALLED P.I.D. REGARDING:

A. DAMAGED CHAIN-LINK FENCE. STILL NOT REPAIRED JULY 2023. #

B. TREE LIMB HANGING ON DAMAGED FENCE & HANG ONTO MY PROPERTY. MY SON HAD TO REMOVE IT & HAUL IT TO DUMP SINCE PARADISE 10' CLEARANCE ALONG PROPERTY LINE. HE ALSO HAD TO REMOVE WEEDS & VINES FROM FENCE. #

C. LONG PIECES OF LOOSE BARB WIRE WERE SCATTERED ON PROPERTY. DANGEROUS. P.I.D. SAID THEY WOULD CALL NEXT WEEK... BUT BY 2-16-23 NOTHING CORRECTED. MY SON MOVED PIECES OVER TO FENCE. 7-2023 STILL FINDING PIECES. - (LAST-2-16-23 LEFT MSG. FOR JEF HILL OR PETE GRANT TO CALL.) #

(2) ON GOING TRESSPASSING BY P.I.D'S TRUCKS, HAULING TRUCKS & CEMENT TRUCKS, & OTHER VEHICLES FOR MORE THAN JUST MONTHS ON MOBILE HOME PARK STREETS. THEY NEED TO BE COMPLETELY GRAVELED/GRADED. #

(3) DAMAGE TO MOBILE HOME PARK SPACES BY CONTINUED DRIVING ACROSS "A" ST. TO "B" ST. GROUND PACKED DOWN BY WEIGHT OF HEAVY TRUCKS. AREA USED SO OFTEN, P.I.D. PUT

8 RED PLASTIC POSTS TO MARK WHERE TO TURN ACROSS. *

(4) TRESSPASSING & USE OF P.D. WORKERS BY REPEATEDLY PARKING THEIR VEHICLES ON 8774 & 8784 SKYWAY. ADJOINING THE MOBILE HOME PARK PROPERTY. I SAW CARS WITH FOLDING CHAIRS OPENED & PAPERS ON GROUND FROM LUNCH OR "BREAK" TIME, TOM LANDO WAS TOLD OF THE PROBLEM MONTHS AGO, BUT WAS NOT CORRECTED UNTIL MY SON SAW. THE CARS ARE NOW PARKING ACROSS SKYWAY, A FEW DAYS AGO. #

(5) NUMBER (2) MENTIONED RE-GRADING STREETS IN MOBILE HOME PARK BUT DIDN'T GO INTO DETAIL BECAUSE NUMBER (2) WAS ADDRESSING ONLY TRESSPASSING. NUMBER (5) WILL GO INTO DAMAGE. AN EXAMPLE IS THE AREA AROUND SPACE A7, WHERE P.D. SET UP THE 8 RED PLASTIC MARKERS TO DIRECT THE CEMENT TRUCKS (& OTHER LG. TRUCKS) TO CROSS OVER THE MOBILE SPACE, OR BACK RIGHT UP TO THE RESERVOIR AREA. DIRT FROM TRUCK TIRES IS ALL OVER & GROUND SUNKEN. THAT CAUSED DAMAGE TO MOBILE HOME PARK & RUINED ROAD. MOBILE PARK MAY NEED FILL DIRT. HOPEFULLY NOTHING UNDERGROUND WAS DAMAGED.

STREETS, OF COURSE, MUST BE RE-GRADED & GRAVELED

(6) THIS ISSUE REALLY BOTHERS ME. I'T'S THE APPARENT LACK OF CONCERN TOM LANDO SEEMS TO HAVE REGARDING DAMAGE TO MY PROPERTY. RIGHT AFTER P.I.D.'S WATER TRUCK BACKED INTO MY MAILBOXES (DRIVER MAY NOT HAVE KNOWN HE DAMAGED & TIPPED THEM OVER), I CALLED P.I.D. OFFICE & TOLD THEM I WANTED TO SPEAK TO TOM LANDO. SHE SAID HE HAD JUST LEFT WITH A CONTRACTOR OR ENGINEER & WAS COMING TO THE MOBILE HOME PARK, I BELIEVE I TOLD HER MY SON TOLD ME ABOUT THE DAMAGE. SHE SAID SHE WOULD CALL TOM. I ALSO CALLED TOM & LEFT MSG. SAYING THE MAILBOXES WERE EXPENSIVE & TO HAVE THE WORKERS MOVE THEM (VERY SHORT DISTANCE) ONTO THE FENCED P.I.D. PROPERTY SO THEY WOULD NOT BE STOLEN). I NEVER HEARD FROM TOM & THE MAIL BOXES WERE STILL THERE. THOUGHT HE WOULD LET ME KNOW WHAT HE PLANS TO DO. MY SON FINALLY LOADED THE SMALLER ONE ON A TRAILER & HE BROUGHT IT HERE FOR SAFEKEEPING & GAVE A MSG. TO A POST OFFICE DRIVER REGARDING IT. WE SHOULD BE COMPENSATED FOR PICKING UP THE MAIL BOXES & STORING THEM UNTIL TOM LETS ME KNOW WHAT YOUR PLANS ARE. $

(7) THIS IS JUST A MEMO, BUT I WANT TO BE EXTREMELY SURE THAT THE SMALL PIECE OF CHAIN LINK FENCE THAT WAS ACCIDENTLY INSTALLED, FOLLOWING THE LARGE PIPE ROUTE AT THE N/E CORNER OF YOUR P.I.D. PROPERTY. SINCE IT WAS ALREADY INSTALLED I AGREED TO LET IT REMAIN UNTIL THE ORIGINAL RESERVOR WAS COMPLETED, THEN THEY WERE TO REMOVE IT AND PUT IT IN LINE WITH THE REST OF THE FENCING WHICH RUNS ALONG THE PROPERTY LINE. I HAVE MENTIONED THIS VERBALLY, BUT I WANT IT IN WRITTING, SO WE UNDERSTAND EACH OTHER. I DO NOT WANT IT ACCIDENTLY RE-INSTALLED AGAIN.

THINK I COVERED MOST THINGS. I'm REALLY NOT IN GOOD SHAPE. YOU KNOW WHEN YOU STARTED DEMOLITION OF OLD TANK SO YOU CAN FIGURE RENTAL OF 8764 FOR THAT TIME OF USE. THE AMT. FOR ROAD REPAIR IS FOR THE PARK ONLY. THE ENTRANCE & ON UP TO YOUR GATE I FEEL YOU WILL RE-DO ON YOUR OWN. IF NOT I'LL TAKE THAT UP LATER.

HOPE THIS IS HELPFUL. FIGURE WHAT YO THINK IS FAIR & CONTACT ME. THANKS, Audrie M. Kleinert

Paradise Irrigation District
6332 Clark Rd, Paradise, CA 95969 · 530-877-4971 · Fax: 530-876-0483 · www.pidwater.com

**TO:** **Board of Directors**

**FROM:** **Colleen Boak, Water Works Engineers**

**DATE:** **September 14, 2023**

**RE:** **Public Hearing and Adoption of the Amended 2020 Urban Water Management Plan (UWMP)**

Every five years, the State of California requires water purveyors serving a minimum of 3,000 service connections or 3,000 acre feet of water to prepare and submit to the Department of Water Resources (DWR) an updated Urban Water Management Plan by July 1 of years ending in 1 or 6. This requirement was last met for PID in June of 2021 with the adoption of the 2020 UWMP.

A requirement of the 2020 UWMP was to demonstrate compliance with Senate Bill X7-7 (SBX7-7), requiring 20% water use reduction by the year 2020. Chapter 5 of the UWMP is dedicated to this analysis and discussion. PID was well on its way to meeting these requirements prior to 2018 but was not able to demonstrate compliance with the target water usage due to significant water losses attributable to the Camp Fire disaster. These extraordinary conditions were discussed and characterized at length in the 2020 UWMP for DWR's review.

Since the 2020 UWMP was adopted by the Board, it was submitted to DWR and reviewed. DWR contacted PID staff to offer approval of an exemption for the extraordinary conditions precipitated by the Camp Fire. DWR indicated that the methodology used in the submitted plan for quantifying water loss attributed to the fire could be used to execute a correction to the compliance calculations and show that PID is in compliance with the provisions of SB X7-7. Staff opted to take advantage of this offered exemption and execute an amendment to the 2020 UWMP to show that PID has met all UWMP requirements.

Included in the Board Packet is a tracked changes version of the Amended 2020 UWMP to aid in identification of the updates made. This amendment has been reviewed and approved by DWR, and once adopted will be resubmitted along with two other minor corrections to be made in the data submitted to DWR's website.

The complete version of the Amended 2020 UWMP with incorporated changes and all appendices can be found on PID's website at the following location:
https://pidwater.com/uwmp

**The following are requested:**

- *Conduct a public hearing to review and receive comments on the Draft 2020 Urban Water Management Plan Amendment.*

- *"Adopt Resolution No. 2023-13 Adopting the Amended 2020 Urban Water Management Plan and authorizing staff to submit to the California Department of Water Resources."*

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## Paradise Irrigation District Tables

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## Abbreviations

| | |
|---|---|
| Acre(s) | Ac |
| Acre Feet | AF |
| Acre Feet Per Year | AF/yr |
| American Community Survey | ACS |
| American Water Works Association | AWWA |
| California State Groundwater Elevation Monitoring Program | CASGEM |
| California Water Code | CWC |
| 2018 Camp Fire | Camp Fire |
| Cubic Feet Per Second | Cfs |
| Degrees Fahrenheit | °F |
| Department of Water Resources | DWR |
| *Department of Water Resources Methodologies for Calculating Baseline and Compliance Urban Per Capita Water Use* | DWR Methodologies |
| Drought Risk Assessment | DRA |
| Gallons Per Minute | Gpm |
| Groundwater Management Plan | GWMP |
| Groundwater Sustainability Plan | GSP |
| Maximum Contaminant Level | MCL |
| Million Gallon(s) | MG |
| Million Gallons Per Day | MGD |
| Paradise Irrigation District | PID or District |
| Parts Per Million | Ppm |
| Pounds Per Square Inch | Psi |
| Senate Bill X7-7 | SB X7-7 |
| State of California Legislature | Legislature |
| State Water Project | SWP |
| State Water Resources Control Board, Division of Water Rights | SWRCB |
| Sustainable Groundwater Management Act | SGMA |
| Town of Paradise | Town |
| United States Geological Survey | USGS |
| Urban Water Management Plan | UWMP |
| Urban Water Management Plan Guidebook 2020 | Guidebook |
| Urban Water Retail Supplier | Supplier |
| Water Shortage Contingency Plan | WSCP |
| Water Treatment Plant | WTP |

# Paradise Irrigation District Amended 2020 Urban Water Management Plan

September 2023

**Prepared by Water Works Engineers, LLC**
Colleen Boak, PE
Esmeralda Diego
Sheila Magladry, PE
Ameen Tohmeh

Checked by:
Tim Durbin, PE
Cindy Bertsch, PE

# Executive Summary

## ES. 1 Introduction

An Urban Water Management Plan (UWMP) is the legal and technical water management foundation for water suppliers throughout California. A UWMP combines information from various sources that inform water supply and demand such as projects pertaining to local land use planning, regional water supply, infrastructure, and demand management. The Paradise Irrigation District (PID or the District) participates in UWMP updates every five years, as required by law. Each UWMP update addresses all requirements pertaining to urban retail water suppliers in accordance with the Urban Water Management Planning Act and the Water Conservation Act of 2009, also referred to as Senate Bill X7-7 (SB X7-7). The reporting years for this UWMP update are 2016-2020, with a planning horizon into 2045. The 2018 Camp Fire significantly impacted PID's ability to report on the required metrics of this UWMP. Components of the UWMP for which data were unavailable are stated throughout the report, and in the absence of data, reasonable estimations were made to report on all components of the UWMP. This plan was subsequently amended in 2023 to incorporate DWR-approved exemptions for water losses experienced as a direct result of the 2018 Camp Fire disaster.

## ES. 2 Plan Components

The plan consists of the following components:

- **Chapter 1:** The basis for preparing a plan and the new requirements.
- **Chapter 2:** Summary of how the plan is prepared and coordination with the public and other local and regional authorities.
- **Chapter 3:** A description of PID's treatment facility and distribution infrastructure, as well as a description of the population and area served by PID.
- **Chapter 4:** Quantification of water use for the 5-years preceding the plan update and water use projections for a 25-year planning horizon.
- **Chapter 5:** Supporting data for reporting on SB X7-7.
- **Chapter 6:** Description of existing and planned water supplies and water supply management.
- **Chapter 7:** A drought risk assessment (DRA), which analyzes water supplies and demands in a single year or multiple years of a water shortage.
- **Chapter 8**: The Water Shortage Contingency Plan (WSCP), which outlines the process that PID will execute in the event of a water shortage.
- **Chapter 9:** Demand measures that PID integrates and plans to integrate into its regular operations to address increasing demands.
- **Chapter 10:** Record of the process by which the UWMP was adopted, submitted, and implemented with the intention of making the plan widely available to PID's customers and the public. Record of the amendment process for this document.

### ES. 3 Basis for Plan Preparation and Coordination

Urban water retail suppliers (suppliers) who either deliver 3,000-acre feet (AF) or more of water annually or have over 3,000 service connections are required to submit a UWMP. In 2020 PID had 3,600 service connections and supplied a total of 3,929 AF, so under these requirements, PID is required to prepare and submit a UWMP.

In preparation of this plan, PID sought involvement from the public and other local water agencies. Neighboring water retail suppliers and the community were informed of a public hearing to be held on June 21, 2021. ~~In this~~The plan was presented in a public hearing ~~the plan will be presented~~, and ~~attendees will be~~ the public invited to ~~encouraged~~ to share questions and concerns prior to board adoption. Subsequently, notices were sent out on May 10, 2023 to neighboring water retail suppliers and local governments to inform them of PID's intent to amend the adopted 2020 UWMP.

### ES. 4 System and Supply Description

Raw water from Paradise Lake and Magalia Reservoir is PID's primary water source. Raw water is conveyed to PID's water treatment plant and is then distributed through 170 miles of water mains to customers. Other water facilities that PID maintains include potable water storage tanks, pump stations, interties to exchange water with other water agencies, and a groundwater well.

### ES. 5 Past and Projected Water Use

PID supplies water to customers for the following water use sectors:

- Commercial
- Industrial
- Institutional and Governmental
- Multi-Family Residential
- Single Family Residential
- Landscape
- Agricultural Irrigation

The UWMP characterizes water use by sector for the years preceding the plan update as well as projections of water use for the next 25 years. The estimated volume of water used by each sector for 2020 and water use projections through 2045 are summarized in ES Table 1.

**ES Table 1** 2020 potable and non-potable water use and projected water use through 2045.

| Water Use Sector | 2020 | 2025 | 2030 | 2035 | 2040 | 2045 |
|---|---|---|---|---|---|---|
| Single Family | 1,130 | 1,686 | 2,290 | 2,894 | 3,168 | 3,168 |
| Multi-Family | 206 | 261 | 355 | 448 | 491 | 491 |
| Commercial | 221 | 184 | 250 | 315 | 345 | 345 |
| Institutional/Governmental | 408 | 112 | 152 | 192 | 210 | 210 |
| Agricultural Irrigation | 0 | 50 | 67 | 85 | 93 | 93 |
| Landscape | 30 | 31 | 42 | 53 | 58 | 58 |
| Losses | 1,934 | 1,334 | 901 | 626 | 444 | 419 |
| Total | 3,929 | 3,657 | 4,056 | 4,614 | 4,809 | 4,784 |

### ES. 6 SB X7-7

SB X7-7 called for a 20% reduction of water use from all retail water suppliers by the year 2020. In the 2010 and 2015 UWMPs, PID calculated a 10-year and 5-year baseline period to determine an average baseline gallon per capita per day (GPCD) water use. The confirmed 2020 target was to be 212 GPCD, a 20% reduction from the 2010 265 GPCD baseline. In 2020, the actual water use was 349 GPCD, and PID did not achieve the targeted reduction. However, in the 2015 UWMP PID demonstrated the ability to meet the confirmed reduction with water use of 143 GPCD. Additionally in 2017, the last complete calendar year before the Camp Fire, PID had a water use of 157 GPCD. The far-reaching effects of the Camp Fire, explained further in this UWMP, impacted PID's ability to meet the requirements of SBX7-7. Upon review of the adopted 2020 UWMP, DWR has allowed for PID to characterize and exclude water loss directly resulting from the extraordinary circumstances of the 2018 Camp Fire. This plan was amended to account for that change and the adjustment is characterized further in a subsequent chapter of this document. The result of this adjustment is to show that absent the extraordinary circumstance of the disaster, PID can demonstrate compliance with SBX7-7 requirements.

### ES. 7 Supply Reliability and Drought Risk Assessment and Water Shortage Contingency Plan

A supply reliability and drought risk assessment was performed. The assessment considered the supply available for a single-year and five-year consecutive drought period for both the near-term and long-term. The supply availability was compared to the total water use to determine if a deficit is projected for any of the conditions. The supply availability is subject to seasonal and climatic shortages, which reduce the available water from Paradise Lake and Magalia Reservoir. The supply and drought risk assessment do not anticipate a water deficit for a single-year or for a five-year consecutive drought in the near term or long term.

### ES. 8 Demand Management Measures

PID has taken a proactive approach to managing water demands. Demand management measures include Water Conservation Programs, Water Wise Guidelines, and public education and outreach. Following the Camp Fire, system losses account for a significant portion of water use. PID continues to prioritize the repair of its distribution system to reduce the amount of water lost through leaks.

### ES. 10 Plan Adoption and Submittal

The 2020 UWMP wasill ~~be~~ presented to the Board of Directors on June 21, 2021, following the public hearing. Following adoption of the 2020 UWMP, the 2020 UWMP wasill ~~be~~ submitted to the California Department of Water Resources for compliance with the Urban Water Management Planning Act. The plan ~~will~~ has been~~be~~ made publicly available at the PID office and an electronic version iswill also be available for review and download on PID's website at https://pidwater.com/uwmp. Subsequently, the plan was amended in September 2023. It will be presented in a public hearing before the Board of Directors on September 20, 2023, followed by consideration of adoption of the plan as Amended. If adopted the amended plan will be made available in the same manners and locations.

# Chapter 1 Urban Water Management Plan Purpose and Description

This chapter introduces the Urban Water Management Plan (UWMP) program, including a description of the legislation that requires urban water retail suppliers to submit UWMPs, the necessary information required to be reported in the 2020 UWMP, an overview of the changes to legislation since the 2015 Paradise Irrigation District UWMP, and a description of benefits to the supplier and its customers in completing a UWMP.

## 1.1 California Legislation

The Urban Water Management Planning Act was enacted in 1983 by the State of California Legislature (Legislature). The law established the requirement that an urban water supplier (supplier) that provides municipal water to over 3,000 customers or 3,000 acre-feet (AF) annually must submit a UWMP every five years. The aim of the Urban Water Management Planning Act was to address declarations and findings of the California Water Code (CWC):

*California Water Code Section 10610.2*

*(a) The Legislature finds and declares all of the following:*

*(1) The waters of the state are a limited and renewable resource subject to ever-increasing demands.*

*(2) The conservation and efficient use of urban water supplies are of statewide concern; however, the planning for that use and the implementation of those plans can best be accomplished at the local level.*

*(3) A long-term, reliable supply of water is essential to protect the productivity of California's businesses and economic climate, and increasing long-term water conservation among Californians, improving water use efficiency within the state's communities and agricultural production, and strengthening local and regional drought planning are critical to California's resilience to drought and climate change.*

*(4) As part of its long-range planning activities, every urban water supplier should make every effort to ensure the appropriate level of reliability in its water service sufficient to meet the needs of its various categories of customers during normal, dry, and multiple dry water years now and into the foreseeable future, and every urban water supplier should collaborate closely with local land-use authorities to ensure water demand forecasts are consistent with current land-use planning.*

*(5) Public health issues have been raised over a number of contaminants that have been identified in certain local and imported water supplies.*

*(6) Implementing effective water management strategies, including groundwater storage projects and recycled water projects, may require specific water quality and salinity targets for meeting groundwater basins water quality objectives and promoting beneficial use of recycled water.*

*(7) Water quality regulations are becoming an increasingly important factor in water agencies' selection of raw water sources, treatment alternatives, and modifications to existing treatment facilities.*

*(8) Changes in drinking water quality standards may also impact the usefulness of water supplies and may ultimately impact supply reliability.*

*(9) The quality of source supplies can have a significant impact on water management strategies and supply reliability.*

Additionally, efforts aimed at protecting California's water supply were expanded in 2009 with Senate Bill X7-7 (SB X7-7), where Governor Schwarzenegger called for a 20% reduction statewide in per capita water use by 2020.

## 1.2 Updates to 2020 UWMP

Since the reporting of the 2015 UWMP, there have been various requirements added by the Legislature to the CWC. Subsequent chapters of this report will provide necessary information to address requirements applicable to PID. The major new requirements are described in the following sections.

### 1.2.1 Lay Description

Pursuant to Section 10630.5, all plans are now required to include a lay description. This description shall include how much water PID has on a reliable basis, anticipated demands for the foreseeable future, PID's plan to meet those future demands, any challenges that PID will face in the future especially pertaining to recovery following the 2018 Camp Fire (Camp Fire), and other information that will provide the public with an understanding of the PID's 2020 UWMP.

The requirement for this lay description is met in the executive summary.

### 1.2.2 Water Loss Reporting

Pursuant to Section 10631(d)(3)(C), the 2020 UWMP shall include past water loss for the 5-years preceding the plan. The 2015 UWMP included water loss data from 2015, the reporting year, but not the other four years preceding the plan.

### 1.2.3 Energy Use Information

Pursuant to 10631.2, the 2020 UWMP shall include any information related to the amount of energy consumed in various water processes to estimate the energy intensity of water production and delivery.

### 1.2.4 Groundwater Supplies Coordination

Pursuant to 10631(b)(4)(A), if groundwater is identified as a source of water available to the supplier, the 2020 UWMP shall coordinate with the current version of any groundwater sustainability plan adopted pursuant to 10720, Sustainable Groundwater Management Act, or any other authority for groundwater management for basins underlying the service area. PID has one groundwater well that is inoperable at this time; however, the PID service are does not overly a groundwater basin to which this requirement applies.

### 1.2.5 Five Consecutive Dry-Year Water Reliability Assessment

Pursuant to 10631(f), suppliers must now include a description of actions they will implement for a period of drought lasting five consecutive water years as opposed to the 2015 UWMP requirement, which was for three consecutive dry water years.

### 1.2.6 Drought Risk Assessment

Pursuant to 10635(b), all suppliers are required to include a drought risk assessment (DRA) in the UWMP. Interim updates to the DRA may be conducted by the supplier within the five-year cycle of the UWMP update.

### 1.2.7 Water Shortage Contingency Plan

Pursuant to Section 10632, every urban water supplier shall prepare and adopt a Water Shortage Contingency Plan (WSCP). The WSCP shall be included in the 2020 UWMP but is to be adopted separate from the UWMP, with the intent that it be updated as needed independently from the UWMP.

### 1.2.8 Seismic Risk

Pursuant to 10632.5, suppliers shall include a seismic risk assessment and mitigation to assess vulnerabilities of the supplier's facilities. The seismic risk assessment and mitigation plan shall be updated when the UWMP is updated.

## 1.3 Benefits of UWMP Reporting

UWMP reporting for PID is required by the state and is a critical document for ensuring that PID remains compliant with applicable state regulations. Additionally, completion of a UWMP demonstrates that PID has addressed the requirements of the CWC and is necessary to be eligible for any Department of Water Resources (DWR) administered grant or loan. Completion of the most recent UWMP may also be required for other state funding.

Beyond establishing grant or loan eligibility, the UWMP is intended to be a useful tool for the supplier and the public. Thoughtful preparation of the plan provides the supplier an opportunity for forward thinking and planning, ensuring that their water supply remains robust in the future and continues to meet the dynamic needs of its customers. Throughout plan preparation, PID, other suppliers, and local and regional authorities are encouraged to coordinate with one another, which is intended to foster a greater understanding of the region's water demands, ultimately promoting mindful utilization of the state's water resources.

## 1.4 Plan Organization

This UWMP was prepared in part by use of guidance issued by DWR via the *Urban Water Management Plan Guidebook 2020* (Guidebook). Organization of the plan chapters closely follows the suggested organization in the Guidebook. Where appropriate, submittal tables provided by DWR are used to report data; these tables are denoted by the prefix, "DWR Table". Additional data reporting is done in Paradise Irrigation District Tables denoted by the prefix, "PID Table".

# Chapter 2 Plan Preparation

This chapter provides an overview of the process by which the plan was prepared and the coordination that was carried out.

## 2.1 Basis for Preparing a Plan

The Paradise Irrigation District (PID) is a public water system, which is defined as a system that provides drinking water for human consumption through pipes or other constructed conveyances. PID serves over 3,000 customer and delivers over 3,000 AF annually and as such is required to submit a UWMP. The UWMP is required to be reviewed and updated every five years; this UWMP is an update to the most recent UWMP, adopted by Paradise Irrigation District in 2015. Metrics for total number of customers and volume of water supplied in PID's service area for 2020 are provided in DWR Table 2-1. Note that the total number of connections in 2020 was a dramatic decrease from the 10,627 connections present throughout the system before the 2018 Camp Fire.

**DWR Table 2-1**

| Submittal Table 2-1 Retail Only: Public Water Systems | | | |
|---|---|---|---|
| Public Water System Number | Public Water System Name | Number of Municipal Connections 2020 | Volume of Water Supplied 2020 |
| CA0410007 | Paradise Irrigation District | 3,600 | 3,929 |
| | **TOTAL** | 3,600 | 3,929 |
| NOTES: All volumes are in AF. Units of measure remain consistent throughout the UWMP as reported in DWR Table 2-3. | | | |

As a water retail supplier, PID is also required to report on compliance with SBX7-7. This UWMP reports on all requisite components of SBX7-7 legislation.

## 2.2 Individual or Regional Planning and Compliance

The CWC provides an option for participating in regional management planning. Per *Department of Water Resources Methodologies for Calculating Baseline and Compliance Urban Per Capita Water Use* (DWR Methodologies), water suppliers receiving water from a shared wholesale supplier may choose to form a regional alliance. While PID continues to promote planning with other local water suppliers, PID has not formed a regional alliance for the purposes of reporting on SBX7-7. PID has prepared an individual UWMP, reporting solely on its own distribution service area, as stated in DWR Table 2-2.

**DWR Table 2-2**

| Submittal Table 2-2: Plan Identification | | | |
|---|---|---|---|
| **Select Only One** | **Type of Plan** | | **Name of RUWMP or Regional Alliance** *if applicable* |
| ☑ | **Individual UWMP** | | |
| | ☐ | Water Supplier is also a member of a RUWMP | |
| | ☐ | Water Supplier is also a member of a Regional Alliance | |
| ☐ | **Regional Urban Water Management Plan (RUWMP)** | | |

## 2.3 Fiscal or Calendar Year and Units of Measure

General metrics for plan preparation are provided in DWR Table 2-3.

**DWR Table 2-3**

| Submittal Table 2-3: Supplier Identification | |
|---|---|
| Type of Supplier (select one or both) | |
| ☐ | Supplier is a wholesaler |
| ☑ | Supplier is a retailer |
| Fiscal or Calendar Year (select one) | |
| ☑ | UWMP Tables are in calendar years |
| ☐ | UWMP Tables are in fiscal years |
| If using fiscal years provide month and date that the fiscal year begins (mm/dd) | |
| Units of measure used in UWMP (select from drop down) | |
| Unit | AF |

## 2.4 Coordination and Outreach

This section discusses PID's coordination with other agencies and the public.

### 2.4.1 Wholesale Coordination

Pursuant to CWC Section 10631(j), suppliers are to coordinate with all wholesale suppliers from whom they receive water. PID does not purchase wholesale water and as such has not contacted any wholesale suppliers about coordination in relation to this UWMP.

### 2.4.2 Coordination with Other Agencies and the Community

PID has actively sought to coordinate preparation of the UWMP with local agencies and the public. PID recognizes that how it currently utilizes and plans to utilize its water supply affects not only its own customers, but customers served by neighboring water agencies. On March 29, 2021, PID notified the towns, cities, agencies, and organizations listed in PID Table 2-A that preparation of the 2020 UWMP update had begun and invited their participation in the process. Documentation of this coordination is provided in Appendix A. Additionally, PID held a public hearing on June 21, 2021, to introduce the 2020 UWMP to the public and solicit feedback and answer questions regarding the plan. Subsequently, PID again notified towns, cities, agencies, and organizations listed in the table below of the intent to amend the adopted 2020 UWMP. These notifications were made on May 10, 2023. These letters have been added to Appendix A. The Amended 2020 UWMP will be presented in a public hearing for comment and solicitation of feedback.

**PID Table 2-A** Outreach with local and regional agencies

| Agency Name | Agency Type |
|---|---|
| Town of Paradise | Local Town |
| Butte County Public Works Director | Local County |
| Butte County Water and Resource Conservation Department | Local County |
| California Water Service | Water Supplier |
| Del Oro Water Company | Water Supplier |
| Cal Fire Station 81 | Local Agency |
| Rebuild Paradise | Local Organization |
| Paradise Ridge Chamber of Commerce | Local Organization |
| Mechoopda Indian Tribe of Chico Rancheria | Local Tribal Government |
| City of Oroville Public Works Department | Neighboring Agency |
| City of Chico Public Works Department | Neighboring Agency |

# Chapter 3 System Description

This chapter provides a description of the system including information on the distribution system, service area boundary, climate, population, demographics, and socioeconomics, as well as information on land uses within the service area.

## 3.1 General Description

The Paradise Irrigation District (PID) is a public utility in the Town of Paradise (Town) and supplies water to most areas of the Town. The Town of Paradise is located in central Butte County in the Sierra Nevada Foothills east of the State Route 99 corridor. PID obtains its surface water from Little Butte Creek watershed. Surface water from Little Butte Creek is diverted to Paradise Lake and then to Magalia Reservoir, permissible through PID's three water supply rights, including two storage rights and a direct diversion right. PID operates a raw water intake at Magalia Reservoir which is pumped to PID's Water Treatment Plant (WTP). Thereafter treated water is conveyed to PID's distribution system through a 42" transmission main.

On November 8, 2018, the Camp Fire started near the community of Pulga in Butte County; the Camp Fire was caused by electrical transmission lines owned and operated by Pacific Gas and Electricity (PG&E), as determined by CAL FIRE. The Camp Fire burned a total of 153,336 acres throughout Paradise, Pulga, Concow, Magalia, and the outskirts of east Chico. The Fire resulted in significant loss of life and property in the Town of Paradise and the surrounding communities, with approximately 90% structure loss. PID's distribution system sustained severe damage as a result of the Fire and fire-related cleanup activities. Damage to the system is described further in the following sections. To date, PID continues to recover their system and promote projects that support the rebuild of the Town.

The severity of the damage, dynamic need for water from the Town's community, and the challenges of navigating recovery have impacted the ability to characterize and quantify the requisite metrics of the 2020 UWMP. This UWMP update was prepared with data to the extent that it is available, but it should be noted that values reported in this plan beginning in November 2018 and thereafter are estimates, where indicated.

### 3.1.1 Storage Reservoirs and Intake

Storage of surface water upstream of the WTP is provided by two reservoirs impounded by the Paradise and Magalia Dams located north of Paradise. The upstream reservoir, Paradise Lake, is the main storage facility with a total storage capacity of approximately 11,500 AF. Surface water from Paradise Lake is released into Little Butte Creek and flows to Magalia Reservoir. Magalia Dam is currently restricted to 800 AF of storage as a result of the current maximum water surface elevation dictated by the Department of Water Resources, Division of Safety of Dams (DSOD).

In 1997 DSOD identified seismic stability concerns on the upstream slope of Magalia dam. Consequently, DSOD directed PID to lower the maximum water elevation of Magalia Dam to 2,200 feet above mean sea level, whereas the spillway crest elevation is 2,225.8 feet above mean sea level. The lower water level has reduced the maximum operating storage capacity of Magalia Reservoir from 2,574 AF to 796 AF. Due to the lower water elevation behind Magalia Dam, gravity feed to the WTP was no longer possible, and as such a pump station was installed at the

base of Magalia Reservoir to deliver raw water to the WTP. In 2007, a bypass pipeline was installed to provide water to the WTP by gravity.

### 3.1.2 Water Treatment

PID's single WTP located in Magalia, north of Paradise and at a higher elevation than Paradise, has a capacity of 22.8 million gallons per day (MGD). The WTP is a conventional filtration treatment plant, with treatment processes including flocculation, clarification, filtration, and disinfection as well as side stream solids handling. The treatment train, beginning with the intake at Magalia Reservoir, is shown in Figure 3-1.

The WTP sustained minimal damage during the Camp Fire and continued to operate and supply water to PID's distribution system throughout the duration of the Camp Fire as well as during recovery efforts.

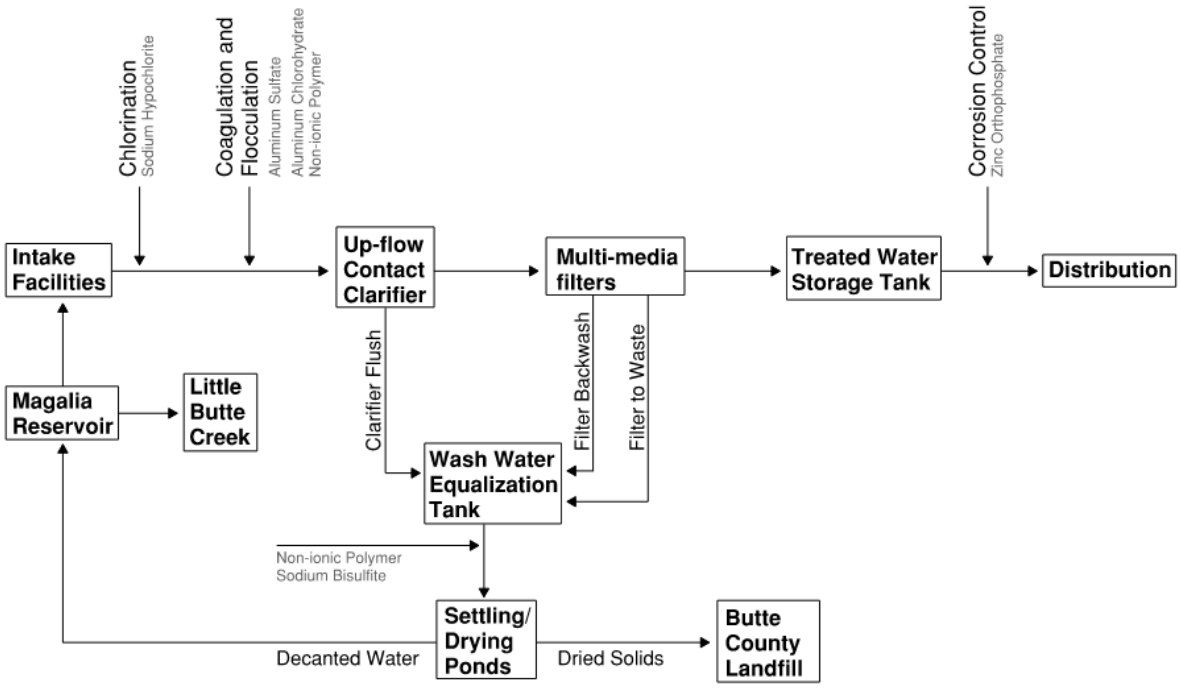


**Figure 3-1** Paradise Irrigation District Water Treatment Plant Process Flow

### 3.1.3 Pressure Zones and Distribution Storage

PID operates seven pressure zones throughout the system, called Pressure Zones A, B, C, D, E, F, and G. There are also five storage facilities, including Reservoir B, which is a lined earthen embankment, and 4 steel tanks: A Tank, C Tank, D Tank, and E Tank. The storage capacity of each tank and the pressure zones to which they provide water are listed in PID Table 3-A. Water is transferred from the WTP directly to Zone B and Reservoir B through the 42-inch transmission main. Water is pumped from Reservoir B to Zone A, which feeds A Tank. C Tank is filled from Zone B and subsequently feeds Zone C. D Tank is filled from Zone C and feeds Zone D. E Tank is filled from Zone D and feeds Zone E. Zone F is fed from Zone E, and Zone G is fed from Zone F.

**PID Table 3-A** Potable Water Storage Facilities

| Facility | Type | Pressure Zone Served | Capacity (MG) |
|---|---|---|---|
| Tank A | Steel | A | 1 |
| Reservoir B | Earthen Embankment | A, B | 3 |
| Tank C | Steel | C | 2 |
| Tank D | Steel | D | 2 |
| Tank E | Steel | E | 1.5 |

Reservoir B, the earthen embankment, is Hypalon-lined and has a floating high-density polyethylene cover. During the Camp Fire, the cover and liner were melted in multiple locations to a degree such that they could not be repaired. Consequently, Reservoir B has not been operational since the Camp Fire.

### 3.1.4 Distribution Network

PID operates a distribution network of just over 170 miles of pressure pipe ranging from 1 inch to 36 inches in diameter. The network of pipes delivers water from the WTP to PID's customers to meet water demands during average day, maximum day, and peak hour conditions.

Several hours into the duration of the Camp Fire, PID's pipe network experienced a significant depressurization in a majority of its water mains. Though the WTP continued to produce water during the fire, demands from fire sprinklers, firefighting activities, and free-flowing service connections where structures once stood drained significant portions of the system. This depressurization event resulted in negative pressure in many areas throughout the main network, which caused an indeterminate amount of damage in the system. Volatile organic compounds (VOCs) were also introduced into the system as smoke, debris, and other contaminants were drawn in through damaged system appurtenances and exposed service connections of destroyed structures.

Following the fire, efforts to repressurize the system were taken by PID staff with the assistance of Mutual Aid staff, supplied by neighboring and partner agencies. Angle stops at service connections were closed, and operational valves throughout the system were manipulated to methodically repressurize and flush mains. Throughout this process, numerous leaks in mains were identified, and those mains remained off or were closely monitored until such time that PID could address them. To date, PID continues to repair or replace main segments that sustained leak damage or have remained off with an outlook of several years before all breaks can be addressed.

Substantial ongoing recovery throughout the Town including debris removal, tree removal, trenching for other utilities, rebuilding of destroyed structures, and repaving continue to cause damage to PID's water mains and service laterals at an average rate of 10 incidents per week.

A Water Quality Advisory (WQA) was put into effect immediately following the fire for all PID customers as the quality of water in the distribution system was unknown at that time. The WQA recommended that customers not drink or otherwise ingest their water and to avoid activities resulting in exposure to potential contaminants. Two comprehensive water quality sampling programs to investigate the presence of VOCs in water mains, service laterals, and hydrants are ongoing.

The first recovery sampling program identified locations where fire-related VOCs had either adsorbed to or absorbed into pipe walls and associated semi-permeable or permeable components could leach into water. Locations where VOCs were detected were generally localized in the service laterals of destroyed structures or parcels and in small diameter dead-end mains. Under this first sampling program all water mains will be sampled, and all surviving structures were sampled.

Where sample results indicate that water quality met California drinking water standards the water quality advisory has been lifted. In the instances where sample results indicated that the water main did not meet drinking water standards the main was replaced and the advisory subsequently lifted. At the time of plan preparation, the advisory has been lifted for over 95% of mains. Efforts to clear the remaining 5% of mains are ongoing but are dependent on repairs that must be made to facilitate pressurization and testing.

Service laterals for all surviving structures have been sampled. Where sample results demonstrated that the quality of water at the service lateral, and the main from which it is served, meet drinking water standards, the WQA was lifted. In the few instances where sample results demonstrated that the water quality did not meet drinking water standards, the service lateral was replaced, and the WQA was subsequently lifted. Representative sampling indicated that water quality at approximately 50% of the service laterals for destroyed structures did not meet drinking water standards. Consequently, PID has begun to replace the service laterals for all destroyed structures where a rebuild will take place. For destroyed structures, the WQA is lifted only upon the completion of a replaced service lateral.

The second sampling program, called the Assurance Monitoring program, began in August of 2020. The purpose of this sampling program was to ensure that water quality remained compliant with drinking water standards and that no VOCs were later detected. Any instance where VOCs were found would be addressed by additional flushing of the water main and resampling or replacement of the main as needed. At the time of plan preparation this sampling program is ongoing and expected to continue at minimum through the end of 2021.

### 3.1.5 Groundwater Well

PID has a single groundwater well located at the D Tank site facility with a maximum output estimated at 350 acre-feet per year (AF/yr). Pumped groundwater is blended with the chlorinated water of D Tank. The primary purpose of the well is to augment PID's water supply during times of drought or emergency but under normal conditions well production is minimal and only operated for maintenance purposes. However, this well has been non-operational since 2020 due to mechanical failure of the pump.

### 3.1.6 Interties

PID has intertie agreements with the neighboring Del Oro Water Company (Del Oro) to provide mutual assistance of up to 1,000 gallons per minute (gpm) during water shortage emergencies. PID also treats and wheels water to Del Oro.

### 3.1.7 Customer Meters

A large proportion of customer water meters were significantly damaged during the Camp Fire and post-fire recovery activities. Damage included melting of meters and breaking of meters during debris removal. At the time of plan preparation, PID has been unable to meter customer water consumption since the Camp Fire. Resultingly,

all data provided for November 2018 through the end of calendar year 2020 are estimates. PID will begin a project in the summer of 2021 to install water meters at all locations where there is active water usage.

## 3.2 Service Area

PID's service area boundary lies within the limits of the Town of Paradise. There are a few small areas near the edges of the Town limits that are served by Del Oro and not PID. The service area is shown in .

INSERT PDF

**Figure 3-2** Service Area Map

## 3.3 Service Area Climate

The Town occupies a large southerly trending ridge with an average slope of approximately 4%. Elevations within PID's service area range from 1,080 feet in the southwest corner to 2,030 feet in the northeast. Approximately 88% of the Town area lies on slopes of less than 30%.

PID's service area experiences hot and dry summers and cool and moderately wet winters, with minimal snowfall in areas of higher elevation. Daily temperature and precipitation are logged by a temperature gauge located at the WTP and a rainfall gauge at the Magalia reservoir. Monthly averages for 2016 through 2020 are provided in PID Table 3-B.

**PID Table 3-B** Monthly average climate data from 2016 through 2020

| Month | Average Minimum Temperature (°F) | Average Maximum Temperature (°F) | Average Temperature (°F) | Average Total Precipitation (inches) |
|---|---|---|---|---|
| January | 30 | 50 | 39 | 17.59 |
| February | 25 | 55 | 38 | 12.19 |
| March | 29 | 52 | 39 | 13.31 |
| April | 33 | 60 | 47 | 5.87 |
| May | 40 | 65 | 51 | 3.42 |
| June | 46 | 77 | 59 | 0.39 |
| July | 54 | 71 | 62 | 0.00 |
| August | 54 | 79 | 61 | 0.02 |
| September | 45 | 74 | 57 | 0.51 |
| October | 40 | 64 | 49 | 3.32 |
| November | 24 | 55 | 43 | 7.59 |
| December | 29 | 51 | 38 | 9.42 |
| Annual Average | 37 | 63 | 48 | 6.13 |

## 3.4 Service Area Population and Demographics

This section describes the population, demographic, and employment conditions of PID's service area during the reporting period of the UWMP as well as future projections through 2045.

### 3.4.1 Service Area Population

Water use is directly tied to a service area's population, and analyzing population growth and development trends is critical for PID's planning of water distribution facilities and infrastructure. During the reporting years of this UWMP, the service area population dramatically changed as a result of the Camp Fire. Prior to November 2018, for several decades the Town's population held steady at around 26,000 people. However, as the Camp Fire destroyed about 90% of all structures, the Town's community experienced widespread displacement.

At the time of plan preparation, 2020 U.S. Census data were not yet available, and following the Camp Fire, the Town's population fell below the population threshold of the American Community Survey (ACS), so ACS data were also unavailable. As such, PID opted to utilize DWR's Population Tool to estimate the 2020 population being served water. The Population Tool combines U.S. Census data and electronic maps of PID's service area. Within the Population Tool a calculation of persons per service connection was performed for census years 2000 and

2010. The total number of service connections for 2020, which is 3,600, was then input into the Tool, and a 2020 population estimate was derived from historic trends.

PID coordinated with the Town of Paradise to understand trends of population regrowth. Based on the total annual number of certificates of occupancy issued by the Town each year, the Town estimates that the population could increase by 1,000 persons per year until reaching pre-fire population, which was approximately 26,500. Current and projected population estimates are provided in DWR Table 3-1.

**DWR Table 3-1**

| Submittal Table 3-1 Retail: Population - Current and Projected | | | | | | |
|---|---|---|---|---|---|---|
| Population Served | 2020 | 2025 | 2030 | 2035 | 2040 | 2045 |
| | 8,955 | 13,955 | 18,955 | 23,955 | 26,217 | 26,217 |

The population for 2020, which was based on DWR's Population Tool, may be higher than the population that is currently occupying permanent housing. Due to displacement from the Camp Fire, there are hundreds of parcels which are occupied through use of a temporary housing permit issued by the Town. Additionally, there is a constantly evolving number of parcels which are in various stages of rebuilding. While all service connections may not correspond with a structure that has been issued a certificate of occupancy, PID was still responsible for providing water to the 3,600 active connections in 2020.

Note that in 2040 and 2045, the projected population is slightly lower than the buildout population of 26,500, as there are several dwellings within the Town of Paradise not served by PID and that are instead served by Del Oro. Pre-fire the total number of such dwellings was known to be 129. Applying a 2.19 household multiplier, obtained from the Town, that total population is estimated to be about 280 persons, which was subtracted from the Town's total buildout population projection.

### 3.4.2 Social, Economic, and Demographic Factors

Prior to the Fire, according to the ACS 5-year estimates, the Town's population was 85.2% white alone (not Hispanic or Latino), 7.9% Hispanic or Latino, 1.1% Asian alone, 0.6% Native, 0.4% Black alone, and 4.8% responded as two or more race and ethnicities. The median household income was estimated to be $51,566, which is two thirds of the median household income in California, and 12.7% of persons were below the poverty line. 26.1% of the total population were 65 years of age or older. The social, economic, and demographic factors prior to the Camp Fire are not believed to have affected water use or management. However, because the Camp Fire caused a significant change in the population, current social, economic, and demographic factors are not well known. Further, it is difficult to anticipate what these factors will be in the future and how they may continue to affect the water management and planning through 2045. PID will continue to coordinate closely with the Town and other local agencies to understand to the extent practicable the evolving population of the service area and how they can meet the water needs of current and future customers.

## 3.5 Land Uses within the Service Area

A new requirement of the California Water Code, since the 2015 UWMP was published, requires that land use projections be coordinated with other local and regional land use authorities.

> *California Water Code 101631.*
>
> *(a) The description shall include the current and projected land uses within the existing or anticipates service area affecting the supplier's water management planning. Urban water suppliers shall coordinate with local or regional land use authorities to determine the most appropriate land use information, including, where appropriate, land use information obtained from local or regional land use authorities, as developed pursuant to Article 5 (commencing with section 65300) of Chapter 3 of Division 1 of Title 7 of the Government Code.*

Though the majority of the Town is currently undeveloped, designated land use by parcel has changed minimally and is expected to build out to the same approximate land uses that were established before the Camp Fire, according to the Town's Planning Department. All approved land use categories are listed in PID Table 3-C.

**PID Table 3-C** Town of Paradise Land Uses

| Land Use Category |
|---|
| Agricultural Residential |
| Central Commercial |
| Community Service |
| Light Industrial |
| Multi-Family Residential |
| Neighborhood Commercial |
| Open Space/ Agriculture |
| Public Institutional |
| Recreational |
| Rural Residential |
| Town Commercial |
| Town Residential |

# Chapter 4 Water Use Characterization

This chapter provides a description and quantification of the PID's past and current water use and future water use projections through the year 2045. Water use for November 2018 through the end of 2020 are estimates, as customer water use was not able to be metered due to the Fire. Projections provided herein were coordinated with population projections provided by the Town of Paradise.

## 4.1 Non-Potable Versus Potable Water Use

Prior to the Camp Fire, PID provided only potable water to all its retail customers. The primary water source was surface water treated to California Drinking Water Standards at the WTP. PID also provided a small volume of groundwater which was blended with chlorinated water in D-Tank, and routinely sampled for nitrate perchlorate and bacteriological presence to ensure potability.

Following the Camp Fire, PID issued a Water Quality Advisory to all its customers. Early sampling indicated that quality of the surface water of Paradise Lake and Magalia Reservoir as well as treated water leaving the WTP were unaffected by the Camp Fire. However, further sampling demonstrated that VOC contamination from the fire resulted in non-compliance with drinking water standards at some points of use throughout the system. Consequently, only customers having received a Letter of Potability for their service directly from PID on the basis of compliant sample results or a replaced service lateral are being served potable water. All other customers remain under the Water Quality Advisory until such time that they receive a letter of potability for their individual service connection from PID.

PID's priority since the Camp Fire has been to reestablish high-quality potable drinking water for all customers. Based on extensive water quality sampling at more than 6,000 locations and totaling over 400,000 individual analytical tests, PID has identified piping to be replaced where contamination persists despite flushing activities. Most of the persistent contamination has been identified in small diameter dead-end mains, or service laterals serving destroyed structures. The work to complete replacement of service laterals for all destroyed structures who plan to rebuild will take several years. Recognizing that many members of the community have an immediate need for water, including but not limited to those living in temporary housing on their vacant lot and those who are actively rebuilding, PID established the Interim Water Service (IWS) program. Under this program customers are provided a temporary connection to PID through their pre-existing service lateral and a backflow prevention assembly. The backflow prevention assembly is intended to protect PID's distribution system from potential contamination related to effects of the fire and/or activities taking place on the parcel that could introduce contamination into the system, including lot clearing, construction, temporary storage tanks, or any combination thereof. Customers receiving water through the IWS program remain under the Water Quality Advisory and should assume water is non-potable and are advised to comply with the provisions of the advisory.

The Town of Paradise has no centralized sewer system or Wastewater Treatment Plant. All dwellings and businesses in the PID service area dispose of wastewater by individual septic system, clustered septic system, or special septic system. As a result, no recycled water is produced or distributed throughout the Town or by PID.

## 4.2 Past, Current, and Projected Water Use by Sector

The following sections describe and quantify past, current, and projected water use. Water uses are delineated by the various sectors defined by the CWC. Additionally, the new requirement of the 2020 UWMP requiring reporting of system water losses for the five years preceding this plan is addressed in the following subsections.

### 4.2.1 Water Use Sectors Listed in Water Code

Water Code Section 10631(d) requires that water uses be identified for at least the ten following sectors, definitions for each of the sectors are adapted from those provided in the Guidebook.

- **Single-family residential** – A single family dwelling unit. A lot with a free-standing building containing one dwelling unit that may include a detached secondary dwelling. This is a retail demand.
- **Multifamily** – Multiple dwelling units contained within one building or several buildings within one complex. This is a retail demand.
- **Commercial** – A water user that provides or distributes a product or service. Water Code 10608.12(d). This is a retail demand.
- **Industrial** – Water user that is primarily a manufacturer or processor of materials as defined by the North American Industry Classification System (NAICS) code sectors 31 to 33, inclusive, or an entity that is a water user primarily engaged in research and development. Water Code Section 10608.12(h). This is a retail demand.
- **Institutional and governmental** – A water user dedicated to public service. This type of a user includes, among other users, higher-education institutions, schools, courts, churches, hospitals, government facilities, and nonprofit research institutions. Water Code Section 10608.12(i). This is a retail demand.
- **Landscape** – Water connections supplying water solely for landscape irrigation. Such landscapes may be associated with multi-family, commercial, industrial, or institutional/governmental sites, but are considered a separate water use sector if the connection is solely for landscape irrigation. This is a retail demand.
- **Sales to other agencies** – These are water sales made to another agency. Projected sales may be based on projected demand provided by the receiving water supplier. This is a wholesale demand.
- **Saline Water Intrusion barriers, groundwater recharge, or conjunctive use, or any combination thereof** – *Conjunctive use* is a management strategy where surface water is managed in conjunction with an underground aquifer. For purposes of the UWMP, conjunctive use is seen as a management strategy rather than as a water use. This type of water use is best reported as groundwater recharge. *Groundwater recharge* is the managed and intentional replenishment of natural groundwater supplies using man-made conveyances such as infiltration basins or injection wells. Water used for groundwater banking or storage may also be reported using this sector. If all, or a portion of, the groundwater recharge is subsequently pumped out of the basin in the same year, that water is reported as a supply from groundwater. *Saline water intrusion barrier* is the practice of injecting water into a freshwater aquifer to prevent the intrusion of saltwater. These may be either wholesale or retail demand. PID currently does not have any demands under this water use sector.

- **Agricultural** – Water used for commercial agricultural irrigation. Water used for processing agricultural products (e.g., food, beverage, or textile manufacturing) may also be considered industrial process water. This may be either a wholesale or retail demand. PID currently does not have any demands under this water use sector.
- **Distribution system water losses** – Losses that were reported in accordance with the 12-month water loss for each of the prior five years.

### 4.2.2 Water Use Sectors in Addition to Those Listed in Water Code

Since 2016, PID has no additional water use sectors outside of the ten listed in the CWC. PID expects that future water use will be restricted to the same sectors by which water is currently used based on land use projections.

### 4.2.3 Past Water Use

Past potable water use by sector was analyzed to estimate water use projections into 2045, as required by the CWC. From past water use, trends can be understood such as, effects of temporary use restrictions during drought years, effects of long-term demand management measures, and the changing profile of service connections by water use sector. Past water uses from the last two UWMP reporting years, 2010 and 2015, and the four years preceding the 2020 reporting year are summarized in PID Table 4-A. Complete water use data by sector for November and December 2018 and calendar year 2020 were unavailable, because of damage to customer meters during the Camp Fire. The water use reported for 2018 by category are for the months of January through October only. Total water used for 2018 is the sum of metered use through October and water produced in November and December. Total water used in 2019 is equal to the sum of water production. Note that system losses are further explained and quantified in Section 4.2.6.

**PID Table 4-A** Past potable and non-potable water use volumes by sector

| Water Use Sector | 2010 | 2015 | 2016 | 2017 | 2018[2] | 2019 |
|---|---|---|---|---|---|---|
| Single Family | 3,831 | 2,805 | 2,879 | 3,202 | 2,813 | 436 |
| Multi-Family | 765 | 467 | 189 | 496 | 436 | 79 |
| Commercial | 386 | 289 | 675 | 349 | 290 | 85 |
| Institutional/Governmental | 174 | 131 | 142 | 212 | 195 | 414 |
| Agricultural Irrigation | 191 | 117 | 86 | 94 | 83 | 0 |
| Landscape | – | – | 26 | 59 | 69 | 12 |
| Sales/ Transfers/ Exchanges to Other Suppliers | – | – | 241 | 285 | 166 | 109 |
| Losses | 604 | 335 | 343 | 199 | 468 | 2,465 |
| Other (Residential Care Facility)[1] | 88 | 83 | – | – | – | – |
| Other (Unbilled/Unmetered)[1] | 76 | 54 | – | – | – | – |
| Total | 6,115 | 4,282 | 4,581 | 4,896 | 5,676[3] | 3,600[4] |

NOTES: [1] Water uses which were categorized as Other in previous UWMPs are now categorized as Institutional/Governmental.
[2] Volume of water use by sector listed for 2018 is only for the months of January through October.
[3] Total water use for 2018 is the sum of water use by sector and water produced at the WTP and well.
[4] Total water use for 2019 is equal to water produced at the WTP.

All volumes are in AF.

### 4.2.4 Current Water Use

Estimates for PID's potable and non-potable water uses for 2020 by sector are reported in DWR Table 4-1. Within the PID service area there are no existing or recent demands for the use types of industrial or saline barrier or conjunctive use. Prior to the Camp Fire there was a potable demand for use types of agricultural irrigation but in the 2020 reporting year there were no demands of this use type.

As stated throughout this UWMP, all demands after the Camp Fire through the 2020 reporting period are estimates made for the purpose of complying with CWC requirements. The principle estimates and assumptions that were used to develop DWR Table 4-1 are listed below:

- Number of authorized active services by water use category according to PID account records.
- Number of IWS installations.
- Number of rebuilds based on information from the Town and completed service lateral replacements.
- 2020 average annual demand per connection by use type was assumed to be equivalent to the observed 2017 average annual demand per connection by use type.
- Institutional/ Governmental demand totals were inclusive of estimated volume of water used at the WTP and by distribution operations during flushing activities.
- Utilized 2021 leak detection survey information to estimate losses in 2020. System losses are further explained in Section 4.2.6.
- Assumed that total demand from unauthorized water use was equal to the difference between total water production and all accounted for water demands.

**DWR Table 4-1**

| Submittal Table 4-1 Retail: Demands for Potable and Non-Potable Water - Actual | | | |
|---|---|---|---|
| Use Type | 2020 Actual | | |
| | Additional Description | Level of Treatment When Delivered | Volume |
| Single Family | Service Connections No Longer under Water Quality Advisory | Drinking Water | 744 |
| Multi-Family | | Drinking Water | 135 |
| Commercial | | Drinking Water | 146 |
| Institutional/Governmental | | Drinking Water | 403 |
| Agricultural irrigation | | Drinking Water | 0 |
| Landscape | | Drinking Water | 20 |
| Losses | | Drinking Water | 1,403 |
| Single Family | Service Connections Still Under Water Quality Advisory | Other Non-Potable Water | 386 |
| Multi-Family | | Other Non-Potable Water | 70 |
| Commercial | | Other Non-Potable Water | 76 |
| Institutional/Governmental | | Other Non-Potable Water | 4 |
| Agricultural irrigation | | Other Non-Potable Water | 0 |
| Landscape | | Other Non-Potable Water | 10 |
| Losses | Unauthorized Uses | Other Non-Potable Water | 532 |
| Sales/Transfers/Exchanges to other Suppliers | | Drinking Water | 441 |
| | | **TOTAL** | 4,370 |
| NOTES: All volumes are in AF. Volumes reported are estimates as metered consumption data were not available. | | | |

### 4.2.5 Projected Water Use

Projections for water demands into 2045 were informed by population projections provided by the Town and past water use prior to the Camp Fire when the PID service area was approximately built out. The number of service connections by use type for each of the 5-year increments from 2025 to 2045 were estimated by finding the ratio of connections to population in 2018 before the Camp Fire. The average annual potable water demand per connection by use type was estimated to be equal to the observed 2017 average annual demand per connection by use type. Resultant water demand projections are provided in DWR Table 4-2.

Note that all uses except unauthorized uses are predicted to be potable water, as PID anticipates that by 2025 all existing active and new connections will no longer be under the Water Quality Advisory, as a result of service lateral replacements or compliant sample results. Non-potable losses from unauthorized use are expected to decrease over time as PID regains knowledge of metered consumption and is able to better estimate the

magnitude of water consumed through unauthorized connections and allocate resources to identifying and terminating those connections.

Potable losses, which are losses primarily due to leaks in the distribution system, are also expected to decrease over time as PID repairs those leaks identified in the 2021 leak detection survey. Note that around 2040, potable water loss is estimated to reach about 8% of total water demand within the service area, which is approximately equal to average loss in the years preceding the Camp Fire. At this point it is expected that potable water loss will reach a steady state and will not continue to significantly decrease after 2040.

**DWR Table 4-2**

| Submittal Table 4-2 Retail: Use for Potable and Non-Potable Water - Projected | | | | | | |
|---|---|---|---|---|---|---|
| Use Type | Additional Description | Projected Water Use | | | | |
| | | 2025 | 2030 | 2035 | 2040 | 2045 |
| Single Family | Drinking Water | 1,686 | 2,290 | 2,894 | 3,168 | 3,168 |
| Multi-Family | Drinking Water | 261 | 355 | 448 | 491 | 491 |
| Commercial | Drinking Water | 184 | 250 | 315 | 345 | 345 |
| Institutional/Governmental | Drinking Water | 112 | 152 | 192 | 210 | 210 |
| Agricultural irrigation | Drinking Water | 50 | 67 | 85 | 93 | 93 |
| Landscape | Drinking Water | 31 | 42 | 53 | 58 | 58 |
| Losses | Drinking Water | 935 | 701 | 526 | 394 | 394 |
| Sales/Transfers/Exchanges to other Suppliers | Drinking Water | 300 | 300 | 300 | 300 | 300 |
| Losses | Other Non-Potable Water | 399 | 199 | 100 | 50 | 25 |
| **TOTAL** | | 3,957 | 4,356 | 4,914 | 5,109 | 5,084 |
| NOTES: All volumes are in AF. | | | | | | |

Total gross water use projections are provided in DWR Table 4-3. As there is currently no centralized wastewater system or recycled water system in Paradise total gross water use in DWR Table 4-3 is equivalent to gross water use in DWR Table 4-2.

**DWR Table 4-3**

| Submittal Table 4-3 Retail: Total Water Use (Potable and Non-Potable) | | | | | | |
|---|---|---|---|---|---|---|
| | 2020 | 2025 | 2030 | 2035 | 2040 | 2045 |
| Potable Water, Raw, Other Non-potable | 4,370 | 3,957 | 4,356 | 4,914 | 5,109 | 5,084 |

| | | | | | | |
|---|---|---|---|---|---|---|
| Recycled Water Demand | 0 | 0 | 0 | 0 | 0 | 0 |
| **TOTAL WATER USE** | 4,370 | 3,957 | 4,356 | 4,914 | 5,109 | 5,084 |
| NOTES: All values are in AF. | | | | | | |

### 4.2.6 Distribution System Water Losses

Distribution system water losses are the difference between the volume of water that is delivered into the potable drinking water distribution system and actual consumption. Losses are always present in a water system due to pipe leaks, unauthorized connections or use, faulty meters, and unmetered institutional and governmental water use. CWC requires urban retail water suppliers to conduct and submit validated water loss audit reports, in accordance with the American Water Works Association (AWWA) Water Audit Method, annually to DWR on October 1st following the reporting year.

Final Water Audit and Validation Reports are available for 2016 and 2017 and are provided in Appendix B. In the years following the fire, PID had been unable to reliably estimate consumption in the absence of customer water meters and so, at the time of plan preparation, has not submitted a final Water Audit and Validation Report for the years of 2018 and 2019. However, the 2021 leak detection survey has allowed for better estimations of loss for 2018 and 2019, making it possible to derive more reliable estimates of authorized consumption. As such, PID plans to submit Final Water Audits and Validation Reports for 2018 and 2019 in the fall of 2021. The UWMP is required to be submitted prior to the due date of the annual Water Audit, and so the 2020 Water Audit has also not been validated at the time of plan preparation. System loss values for 2018 through 2020 stated herein may differ in the final submissions of Water Audits and Validated Reports. Distribution system water losses for five years preceding the plan update from 2016-2020 are summarized in DWR Table 4-4.

**DWR Table 4-4**

| **Submittal Table 4-4 Retail: Last Five Years of Water Loss Audit Reporting** | |
|---|---|
| Reporting Period Start Date | Volume of Water Loss |
| 01/2016 | 343 |
| 01/2017 | 199 |
| 01/2018 | 468 |
| 01/2019 | 2,465 |
| 01/2020 | 1,934 |
| NOTES: Water Loss Audits for 2018-2020 have not been validated at time of plan preparation. Values may differ in the final Water Loss Audit. | |

An update to the CWC requires that 2020 UWMPs and all UWMPs submitted thereafter include data showing whether the urban retail water supplier met the distribution loss standards enacted by the California State Water

Resources Control Board (SWRCB) pursuant to Section 10608.34. At the time of plan submittal, the SWRCB has not adopted performance loss standards. Proposed water loss performance standards will set a maximum allowable water loss in gallons per connection per day for PID. The proposed baseline water loss is to be an average of water loss during 2017 through 2020. As water loss in the years following the fire has increased significantly, PID will submit Water Loss Audits for 2018 through 2019 for recalculation of the proposed gallons per connection per day performance standard to be achieved by 2028. Additionally, PID will coordinate closely with the SWRCB to determine the best path towards compliance and has begun to seek guidance from SWRCB on establishing an appropriate performance standard for PID's unique situation.

The data from 2018 through 2020 in DWR Table 4-4 reflect the increased volume of water losses following the Camp Fire. Note that in 2018 water loss was only affected by the fire for the months of November and December; however, this still resulted in annual water loss that was more than twice as much as had been observed in 2017. The full effect that the fire had on water loss is reflected in 2019 where annual water loss was more than twelve times what was observed in 2017. Ongoing efforts to reduce loss are demonstrated in 2020 data where water loss was reduced by over 20% of what was observed in 2019.

PID will continue to reduce water loss caused by leaks and unauthorized consumption. However, it is still expected for the next several years that in addition to normal leaks caused by age of the system that incidences of new leaks will be more frequent as recovery and rebuild efforts persist. As previously stated in Section 4.2.5, at the current pace of leak repairs, it is anticipated that PID will achieve pre-Camp Fire water loss on or around 2040.

### 4.2.7 Estimating Future Water Savings

As noted in DWR Table 4-5, water use projections do not consider future water savings but are inclusive of lower income residential demands.

**DWR Table 4-5**

| Submittal Table 4-5 Retail Only: Inclusion in Water Use Projections | |
|---|---|
| Are Future Water Savings Included in Projections? | No |
| Are Lower Income Residential Demands Included in Projections? | Yes |

As at the time of plan preparation it has been several years since water consumption has been metered, estimations of future water savings based on current water savings are unreliable, and PID has opted to project water use conservatively to ensure sufficient water supplies. However, it is anticipated that new construction will result in additional water savings beyond what was observed pre-Camp Fire due to new building codes and landscape standards, explained in the following subsections. The extent of these water savings will be better understood after the installation of water meters and as the Town continues to redevelop.

#### *4.2.7.1 Water Efficient Landscape Requirements*

Chapter 15.36 of the Town of Paradise Municipal Code (available via the Town of Paradise's website) sets forth design criteria for landscape materials promoting installation of water-efficient, fire-resistant landscaping within the Town. Criteria that promote efficient water use included in Chapter 15.36 of the Municipal Code are as follows:

- Plants having a similar water use shall be grouped together in distinct hydrozones.
- For drought tolerant or native plantings only, temporary irrigation systems may be utilized and removed once plantings have become well-established.
- All planting islands within parking areas shall be planted with drought tolerant plant species.
- All irrigation systems, with the exception of temporary irrigation systems, shall be controlled automatically with cycling capacity and shall be designed to avoid irrigation of unplanted surfaces.
- All planting areas where drought-tolerant plants are used or where any one dimension is five feet or less shall utilize drip/trickle/bubble or microsprinklers.
- Irrigation systems serving landscaped areas exceeding four hundred square feet in size shall utilize a rain-sensing device to avoid overwatering during periods of wet weather.
- Recirculating water shall be used for decorative water features.
- All irrigation systems shall be designed to prevent runoff, low head drainage, overspray, or other similar conditions where water flows onto adjacent property, non-irrigated areas, walks, roadways or structures.
- Whenever possible, landscape irrigation shall be scheduled to avoid irrigating during times of high wind or high temperature.

#### *4.2.7.2 Implementation of Low Water Use Fixtures*

Chapter 15.02 of the Town of Paradise Municipal Code (available via the Town of Paradise's website) states the adoption of an amended version of the 2019 California Building Standards Code and Chapter 15.11 states the adoption of the California Green Building Standards Code. These two standards promote water conservation through the use of appliances and fixtures such as high-efficiency toilets, faucet aerators, and on-demand water heaters.

### 4.2.8 Characteristic Five-Year Water Use

The California Water Code Section 10635(a) requires that in addition to calculating water use projections over the next 20 years, in five-year increments, that suppliers perform a drought risk assessment lasting five consecutive years. The projected unconstrained demand for 2021-2025 is estimated in PID Table 4-B. This projection informs the drought risk assessment, which is detailed in Chapter 7

**PID Table 4-B** Gross water use projections through 2025.

| Gross Water Use | 2021 | 2022 | 2023 | 2024 | 2025 |
|---|---|---|---|---|---|
| Potable Water, Raw, Other Non-Potable | 4,287 | 4,205 | 4,122 | 4,040 | 3,957 |
| NOTES: All Volumes are in AF. | | | | | |

## 4.3 Water Use for Lower Income Housing

In 2020 total affordable housing units comprised about 25% of all residential units. The Town of Paradise expects that in the future, affordable housing units will be equal to approximately 20% of all residential units, pursuant to the Town of Paradise 2014-2022 Housing Element, requiring that at least 20% of the total units of a housing development be designated for lower-income households. As stated in DWR Table 4-5, the water use projections in DWR Table 4-2 are inclusive of water use for lower income households. The estimated water demands for affordable housing units from 2020-2045 in five-year increments are provided in PID Table 4-C.

**PID Table 4-C** Current and projected affordable housing water use.

| Affordable Housing Type | 2020 | 2025 | 2030 | 2035 | 2040 | 2045 |
|---|---|---|---|---|---|---|
| Single Family | 291 | 337 | 458 | 579 | 634 | 634 |
| Multi-Family | 53 | 52 | 71 | 90 | 98 | 98 |
| Total Water Use | 344 | 389 | 529 | 669 | 732 | 732 |
| NOTES: All volumes are in AF. | | | | | | |

## 4.4 Climate Change Considerations

All projections included in Chapter 4 are representative of unconstrained demand. However, consideration to the effects that climate change may have on demand projections and water supply and reliability is a critical aspect of ensuring that PID is well positioned to meet future demands. PID's primary water source is surface water from Paradise Lake, and PID recognizes that the reliability of this source is reduced during dry years or a drought. Information from Cal-Adapt's Extended Drought tool, provided in Appendix C, projects that maximum and minimum temperatures will rise and that precipitation will decrease over the course of the next 25 years for the service area. The data are summarized in PID Table 4-D. As witnessed in recent years, PID's service area and the surrounding area have become increasingly susceptible to wildfires as a result of increased temperatures and decreased precipitation. The effects of climate change on water supply and use are further analyzed in the drought risk assessment (DRA) included in Chapter 7 and the Water Shortage Contingency Plan (WSCP).

**PID Table 4-D** Climate variables during an extended drought scenario.

| Climate Variable | 2020 | 2045 | High or Low Peak |
|---|---|---|---|
| Maximum Temperature | 72.8 °F | 75.0 °F | 78.1 °F |
| Minimum Temperature | 48.8 °F | 51.5 °F | 52.0 °F |
| Precipitation | 75.5 in | 72.4 in | 29.5 in |

# Chapter 5 SBX7-7 Baselines, Targets, and 2020 Compliance

With the adoption of the Water Conservation Act of 2009, also known as Senate Bill X7-7 (SB X7-7), the State of California is required to achieve a 20% reduction in urban per capita water use by December 31, 2020. Additionally, incremental progress toward meeting the goal was required to be demonstrated in the 2015 UWMP. The 2015 UWMP calculated gallons per capita per day (GPCD) water use and confirmed that the 2015 interim target was met, and that progress was being made toward meeting the water use target for 2020. This chapter summarizes baselines and targets, which were quantified in previous UWMPs, and reports on PID's final 2020 GPCD achieved.

## 5.1 Baselines and Targets

In the 2010 UWMP PID established and adopted the SB X7-7 baseline per capita water use, the 2015 interim target, and 2020 target. In 2016 the Department of Water Resources issued guidance that there were significant discrepancies between the California Department of Finance estimated 2010 population and the 2010 population as determined by the 2010 U.S Census, which could result in poor baseline population estimates. Consequently, PID and other water suppliers were required to recalculate baseline population for the 2015 UWMP and to modify the 2015 and 2020 targets accordingly. The confirmed 2020 target for PID was determined to be 212 GPCD.

SB X7-7 requires each urban water retailer to determine their baseline daily per capita water use measure in GPCD, over a 10-year or 15-year baseline period. The 10-year baseline period is defined as a continuous 10-year period ending no earlier than December 31, 2004 and no later than December 31, 2010. SB X7-7 also defines that for suppliers which met a minimum of 10% of their 2008 water demand through recycled water that the baseline could be extended to a maximum of a 15-year baseline period. As PID does not utilize recycled water, a 10 consecutive year period was used for the baseline. Additionally, SB X7-7 requires that a 5-year baseline per capita water demand be calculated over a 5 consecutive year period ending no earlier than December 31, 2007 and no later than December 31, 2010. Given the requirements PID used the following baseline periods:

- 10-year Baseline Period: 1999-2008
- 5-year Baseline Period: 2004-2008

Since the 2015 UWMP, there have been no annexations or mergers to the PID service area. As such, PID was not required to recalculate baselines or targets for this UWMP update. Baselines and targets are summarized in DWR Table 5-1. The 2015 SB X7-7 Verification Form, which provides tables for detailed calculations of baselines and targets, is provided in Appendix D.

**DWR Table 5-1**

| Submittal Table 5-1 Baselines and Targets Summary from SB X7-7 Verification Form | | | | |
|---|---|---|---|---|
| Baseline Period | Start Year | End Year | Average Baseline GPCD | Confirmed 2020 Target |
| 10-15 year | 1999 | 2008 | 265 | 212 |
| 5 Year | 2004 | 2008 | 266 | |

## 5.2 Service Area Population

The method for 2020 service area population estimation was described in Section 3.4.1. Pursuant to CWC Section 10608.20(f), the population used to calculate SB X7-7 GPCD is required to be determined using federal, state, or local population reports and projections. The DWR Population Tool that was used to estimate the 2020 population is compliant with legislation as the population estimate is based on U.S. Census Bureau data for 2000 and 2010.

## 5.3 Gross Water Use

Annual gross water use is defined by the CWC as the volume of water, treated or untreated, that enters the distribution system excepting the following: recycled water, the net volume of water placed into long term storage, water conveyed by the retailer for use by another supplier, water delivered for agricultural use, and process water for industrial use if industrial water use is a significant percentage of overall water use. Deductions for exported water and water delivered for agricultural use were made in the calculation of the baseline and so are also considered in the calculation of 2020 GPCD. ~~No other exclusions or deductions were used in the calculation of the 2020 gross water use.~~ In 2023, a specific exclusion for extraordinary water loss related to the Camp Fire Disaster was approved by DWR, further documented in the following sections.

## 5.4 2020 Compliance Daily Per-Capita Water Use

The 2020 compliance daily per capita water use (in GPCD) was calculated in accordance with Methodology 1 of DWR's Methodologies document. The SB X7-7 Compliance Form, provided in Appendix E, is a set of tables containing complete calculations that determine whether PID met the 2020 target and achieved a 20% reduction from its baseline. 2020 actual GPCD and target compliance are also summarized in DWR Table 5-2. Persistent challenges to PID and the community brought about by the Camp Fire, resulted in PID being unable to meet the 2020 confirmed target. Upon review of the initial adopted 2020 UWMP, DWR approved a specific exception for the exclusion of increased water system losses directly related to the 2018 Camp Fire. This resulted in adjustment in this Amended 2020 UWMP to show that PID would have been in compliance with the 2020 confirmed target absent the disaster. An analysis on how the Camp Fire impacted GPCD for the 2020 compliance year is provided in the following subsections.

**DWR Table 5-2**

| Submittal Table 5-2: 2020 Compliance from SB X7-7 2020 Compliance Form | | | | |
|---|---|---|---|---|
| 2020 GPCD | | | 2020 Confirmed Target GPCD | Did Supplier Achieve Targeted Reduction for 2020? Y/N |
| Actual 2020 GPCD | 2020 TOTAL Adjustments | Adjusted 2020 GPCD | | |
| 359 | 1501 | 208349 | 212 | YesNo |
| NOTES: PID applied an adjustment of 10 GPCD for an increase of institutional water use due to an extraordinary event. An additional adjustment of 151 GPCD for increased system losses directly attributable to the Camp Fire and related damages was approved by DWR and has also been applied. | | | | |

### 5.4.1 Adjustment to Gross Water Use for SB X7-7 Reporting

CWC Section 10608.24(d)(1) allows for adjustments to be made for factors outside of the supplier's control when determining compliance. Such factors include differences in evapotranspiration and rainfall, substantial changes to commercial or industrial water use due to increase business output and economic development, and substantial changes to institutional water use resulting from extraordinary events.

PID elected to apply two adjustments to its 2020 GPCD calculation. aThe firstn adjustment to 2020 GPCD to account for significant increase in water used by PID operations for flushing activities. As stated previously, the Camp Fire resulted in hundreds of main breaks, damage to service laterals, and a system wide water quality advisory. Since the Fire, PID has continued to flush water from the system at a much higher rate than was previously required to support recovery efforts. Operations which require flushing and which have become routine since the Camp Fire are as follows:

- Prior to sampling for VOCs to lift water quality advisories, several times the volume of the water mains were flushed.
- In accordance with AWWA standards, upon completion of any main repair work several volumes of the main section must be flushed.
- Prior to being issued a building permit from the Town, applicants had to obtain a flow test from PID to demonstrate that the water main from which they were served could provide adequate flow. This required flushing from the nearest hydrant.
- Installation of new mains required disinfection and flushing before being put into service.
- Installation of new service laterals required disinfection and flushing before being put into service.
- More incidences of high-water age were encountered because of fewer active connections. Upon finding low chlorine residuals flushing was performed to ensure good water quality.

PID operations estimates that total institutional flushing activities for 2020 made necessary by damage caused from the Camp Fire was approximately equal to seven times the total capacity of the distribution network, which is equivalent to 100 AF or 10 GPCD, as reported in DWR Table 5-2.

Upon review of PID's circumstances following the 2018 Camp Fire, DWR approved a second adjustment and has allowed PID to remove increased system losses directly attributable to the fire and resulting damage.

~~5.4.2 Increased System Loss from the Camp Fire~~

As discussed in Section 4.2.6, system water loss was several orders of magnitude higher in 2020 than what was observed pre-Fire. The increase in system loss was due to damage caused to pipes during the fire and post-fire activities, as well as increased unauthorized consumption. Whereas in 2017 system loss accounted for just over 4% of total water use, in 2020 system loss is estimated to account for over 50% of total water use. Prior to the Fire PID was on track to comply with the 2020 target reduction, as reported in the 2015 UWMP where PID was well under not only the interim GPCD target but also the final 2020 GPCD target. GPCD was calculated for 2017, which was the last full year where complete metered data were available. The actual GPCD for 2015 and 2017 are provided in PID Table 5-A.

The adjustment to~~theoretical~~ GPCD for ~~2020 absent~~ impacts of the fire to system losses was also calculated and the result is summarized in PID Table 5-A. The modified GPCD was determined by reducing system loss to the same percentage of system loss observed prior to the Camp Fire, resulting in an additional adjustment of 141 GPCD.~~2018 GPCD~~. The~~A~~ 10 GPCD deduction for increased institutional/governmental use was added to the 141 GPCD for increased system losses, applied together so that adjusted GPCD would not reflect water demands of the fire itself, increase in system losses from damages, or recovery related flushing activities. The theoretical adjusted GPCD is equal to 208, which is under the 2020 confirmed target.

**PID Table 5-A** Progress towards meeting 2020 confirmed target and 2020 GPCD absent impacts of the Fire.

| Year | GPCD | Total Adjustments | Adjusted GPCD | 2020 Confirmed GPCD Target | Compliance with 2020 Confirmed Target |
|---|---|---|---|---|---|
| 2015 | 143 | 0 | 143 | 212 | Yes |
| 2017 | 157 | 0 | 157 | | Yes |
| ~~*Theoretical GPCD for 2020 Absent Increased System Loss from Camp Fire*~~ | | | | | |
| 2020 | 359~~218~~ | 151~~0~~ | 208 | 212 | Yes |
| NOTES: | | | | | |

## 5.5 Regional Alliance

PID has reported on SB X7-7 compliance and UWMP requirements as an individual supplier and has elected to not participate in a Regional Alliance.

# Chapter 6 Water Supply Characterization

This chapter catalogues and describes the various water resources and supplies available to PID including surface water, groundwater, storm water, wastewater, and recycled water, as well as water transfers. The supply source, origin, quality, quantity, and impacts of climate change on availability for each source are discussed within this section in accordance with the findings of the CWC as outlined below:

*California Water Code (Water Code) Section 10631(b)*

*Identify and quantify, to the extent practicable, the existing and planned sources of water available to the supplier [in five-year increments to 20 years or as far as data is available] providing supporting and related information, including all of the following:*

*(1) A detailed discussion of anticipated supply availability under a normal water year, single dry year, and droughts lasting at least five years, as well as more frequent and severe periods of drought, as described in the drought risk assessment. For each source of water supply, consider any information pertinent to the reliability analysis conducted pursuant to Section 10635, including changes in supply due to climate change.*

*(2) When multiple sources of water supply are identified, a description of the management of each supply in correlation with the other identified supplies.*

*(3) For any planned sources of water supply, a description of the measures that are being undertaken to acquire and develop those water supplies.*

## 6.1 Purchased and Imported Water

PID does not receive water from a wholesale supplier, purchase or import any portion of its water supply for use within the PID service area boundary. PID maintains a contract with Del Oro Water Company by which PID treats and wheels supplies to the Paradise Pines District, served by Del Oro. Each year there is an approximately equivalent value of water supply diverted to Paradise Lake by Del Oro and then received downstream of the PID WTP. These supply values are not typically exact and can result in a slight surplus or slight deficit factored into PID's annual supply volumes. PID has a second intertie with Del Oro in the southern portion of the service area, near the Limesaddle area of the Del Oro service area. This intertie is capable of supplying treated water to Del Oro, although it is currently not in use. There is one additional intertie with Del Oro Water Company located in the area of the A Tank Reservoir, which is also not currently in use. These interties have historically been operated only when necessary for emergency supply.

## 6.2 Surface Water

PID's primary water supply is surface water captured from Butte Creek, northeast of the Town of Paradise. Little Butte Creek is a minor stream in the Sacramento Valley drainage that rises in the northwestern foothills of the Sierra Nevada and lies wholly within Butte County. Elevations range from 2,150 feet at the base of Magalia Dam to 3,850 feet at the uppermost elevation in the watershed. Flow in the catchment area is seasonal and responsive to the pattern of precipitation and resulting runoff. Data available for the runoff in the catchment area dates from as far back as 1907 and has been analyzed through 2015. The average annual runoff for this 109-year period has

been approximately 16,340 acre-feet (AFY). The water year 1935-36 (estimated runoff 15,960 acre-feet) was used to represent the average year. The lowest estimated runoff was in 1923 at 1,763 acre-feet. Average runoff far exceeds the District's current and projected needs of 7,000 to 8,000 acre-feet of water demand each year, although PID is vulnerable to potential water shortages during extended dry periods.

PID stores water from Butte Creek in two reservoirs located within the drainage catchment area: Magalia Reservoir and Paradise Lake. The total storage capacity of both reservoirs is 12,293 AF. PID has a combination of diversion and storage water right permits involving both reservoirs. Surface water supplies stored and diverted for use by PID are received at the Magalia Dam diversion location and treated at the District's Water Treatment Plant. PID holds three water rights, described below in PID Table 6-A and included in Appendix F. PID's ability to make full use of these rights is currently limited by allowable storage capacity in the reservoirs.

**PID Table 6-A** Surface Water Supply Summary

| Permit or Agreement Number | Source or Point of Diversion | Permitted Quantity | Availability Timeframe |
|---|---|---|---|
| **Statement of Water Diversion and Use No. S008459** (Pre-1914 Appropriative Right) | Butte Creek at Magalia Dam | **8 cubic feet per second (cfs)** (Estimated at 2,500 AF/yr) | Year-round direct diversion, not storage. Must be used first in priority for PID supply. |
| **Appropriative Water Right Permit 271 (Application A000476)** (Priority of Right: 1916) | Paradise Lake and Magalia Res. | **9,500 AF total** (6,700 AF - Paradise Res.) (2,800 AF - Magalia Res) | Year-round diversion to storage in Paradise Lake and Magalia Reservoir |
| **Appropriative Water Right Permit 16040 (Application 22061)** (Priority of Right: 1965) | Paradise Lake | **8,800 AF** | Wet season diversion to storage in Paradise Lake (October 1 – May 31), Subject to Term 91 |

Diverted water is transported to PID's water treatment plant (WTP) by an above grade 42" steel pipeline that traverses Little Butte Creek at the base of Magalia Dam. PID's WTP is located at the base of the Magalia Dam, just beyond Little Butte Creek and across Skyway Boulevard. The WTP design flow is 19.0 MGD. Three raw water intake pumps at the WTP convey raw surface water from the diversion point to the WTP headworks. The minimum water surface elevation at the intake point must be a minimum of 2223.2 feet above sea level for the pumps to operate.

## 6.2.1 Surface Water Supplies – Vulnerabilities and Restrictions

### *6.2.1.1 Water Rights*

PID's three water rights differ in their terms and priority status. The three rights and their relative reliability as well as any vulnerabilities are outlined in PID Table 6-B.

**PID Table 6-B** Source Water Contract Reliability and Vulnerabilities.

| Permit Number | Use No. S008459 | Permit 271 | Permit 16040 |
|---|---|---|---|
| **Description** | Butte Creek Adjudication | Year-round Diversion from Magalia Reservoir and Paradise Lake | Wet Season Diversion to Storage from Paradise Lake |
| **Priority/Reliability** | Pre-1914 Adjudicated Right | 1916, Permit, perfected use of 7,291 AF, pending petition for change at time of License. | 1965, Permit with petition for extension permitted, not perfected. |
| **Vulnerability** | None | PID has requested a License be issued on Permit 271 based on maximum annual use amount of 7,291 AF. Petition filed by PID with SWRCB to request License and for modifications in some terms including change in place of use, pending at this time with SWRCB. | PID has not made full beneficial use of water under Permit 16040. Beneficial Use Expiration Date: December 2007. Petition for extension of time and modifications in some terms including change in place of use filed by PID, pending at this time with SWRCB. |
| **Restriction** | None | Storage limited in Magalia Reservoir by DSOD requirement to lower water surface elevation by 25 ft, subject to curtailment by SWRCB in extreme drought conditions. | Subject to Term 91 which can cause diversions to be curtailed by the SWRCB when the Sacramento-San Joaquin Delta is in balance conditions. |

#### *6.2.1.2 Magalia Dam Storage*

Magalia Reservoir originally had a storage capacity of 2,574 AF, but in 1997 the reservoir was drawn down to comply with safety requirements of Division of Safety of Dams (DSOD). After drawdown, Magalia Reservoir has a storage capacity of 796 AF. Paradise Lake has a storage capacity of 11,497 AF.

## 6.3 Groundwater

This section addresses the requirements for water suppliers for whom groundwater represents a portion of their water supply portfolio as outlined in the CWC:

*Water Code Section 10631(b)(4)*

*If groundwater is identified as an existing or planned source of water available to the supplier, all of the following information:*

*(A) The current version of any groundwater sustainability plan or alternative adopted pursuant to Part 2.74 (commencing with Section 10720), any groundwater management plan adopted by the urban water supplier, including plans adopted pursuant to Part 2.75 (commencing with Section 10750), or any other specific authorization for groundwater management for basins underlying the urban water supplier's service area.*

*(B) A description of any groundwater basin or basins from which the urban water supplier pumps groundwater. For basins that a court or the board has adjudicated the rights to pump groundwater, a copy of the order or decree adopted by the court or the board and a description of the amount of*

*groundwater the urban water supplier has the legal right to pump under the order or decree. For a basin that has not been adjudicated, information as to whether the department has identified the basin as a high- or medium-priority basin in the most current official departmental bulletin that characterizes the condition of the groundwater basin, and a detailed description of the efforts being undertaken by the urban water supplier to coordinate with groundwater sustainability agencies or groundwater management agencies listed in subdivision (c) of Section 10723 to maintain or achieve sustainable groundwater conditions in accordance with a groundwater sustainability plan or alternative adopted pursuant to Part 2.74 (commencing with Section 10720).*

*(C) A detailed description and analysis of the location, amount, and sufficiency of groundwater pumped by the urban water supplier for the past five years. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historic use records.*

*(D) A detailed description and analysis of the amount and location of groundwater that is projected to be pumped by the urban water supplier. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historic use records.*

PID drilled a single production well in 1996 with the intent to provide a backup water source in times of emergency or drought. When operational, the output from the well is estimated to be 350 acre-feet per year but is typically operated annually at only 30-45 acre-feet per year for maintenance reasons. The primary purpose of the well is to augment PID's water supply during times of drought or emergency. The well has been non-operational since 2020. Given the breadth of ongoing recovery operations and the significant list of high priority work, no repair has yet been made or is planned at this time.

### 6.4.1 Groundwater Basin Description

PID overlies an area with fractured rock aquifers as the only potential groundwater supply. These types of aquifers are not expected to provide a significant source of water. At the time of plan preparation, PID is not within a designated basin and not subject to compliance with the Sustainable Groundwater Management Act (SGMA). The Northern Region CASGEM Basin Prioritization is depicted in Figure 6-1, with the relative location of Paradise noted outside of the recognized basins.

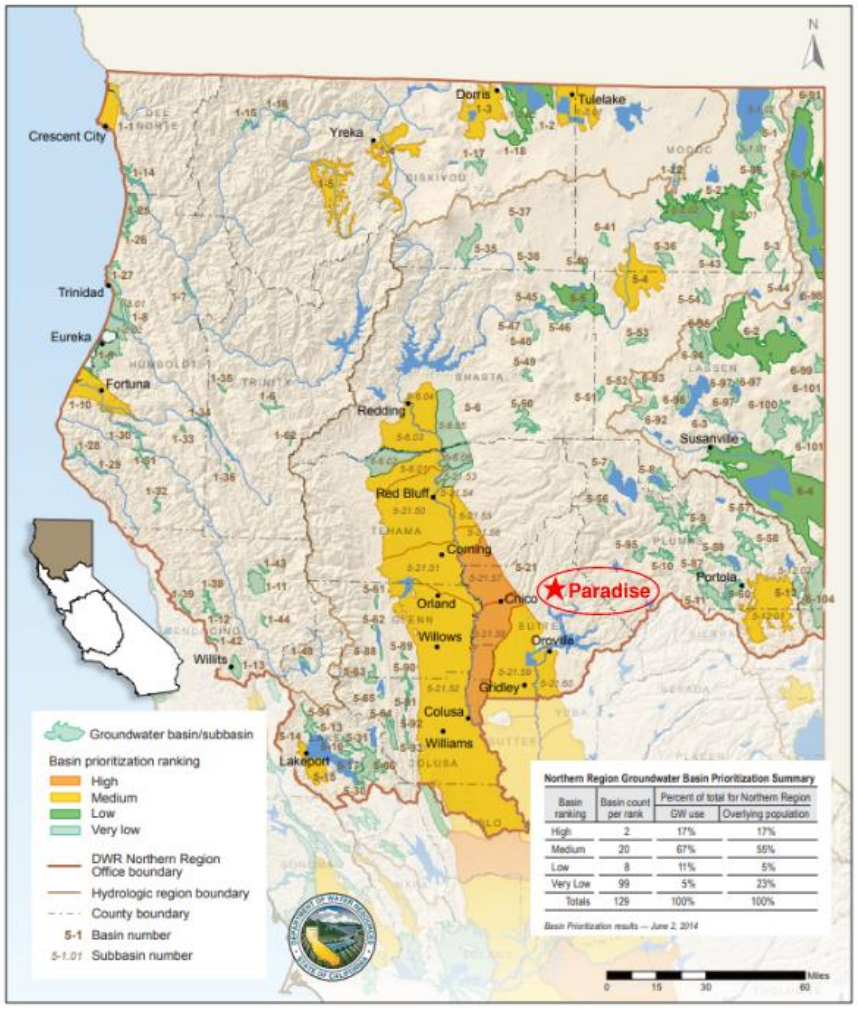


**Figure 6-1** CASGEM Groundwater Basin Prioritization – Northern Region

### 6.3.1 Groundwater Management

Groundwater in Butte County is governed by the County's Groundwater Management Plan. The Butte County Groundwater Management Plan can be accessed on the Butte County website at: http://www.buttecounty.net/waterresourceconservation/groundwatermanagementplan

The introduction of this Groundwater Management Plan (GWMP) states "the foothill and mountain areas of the County do not overlie groundwater basins as defined in Department of Water Resource (DWR) Bulletin 118-2003 and are therefore not included under this GWMP."

### 6.3.2 Historical Groundwater Production

Groundwater has not been utilized by PID under normal year conditions, excepting as an alternative to storage when a nearby tank facility was undergoing maintenance, or as an exercise to maintain the operation of PID's well. A summary of volume of groundwater pumped by PID over the past five years is provided below in DWR Table 6-1~~DWR Table 6-1~~.

**DWR Table 6-1**

| Submittal Table 6-1 Retail: Groundwater Volume Pumped | | | | | | |
|---|---|---|---|---|---|---|
| ☐ | Supplier does not pump groundwater. The supplier will not complete the table below. | | | | | |
| ☑ | All or part of the groundwater described below is desalinated. | | | | | |
| Groundwater Type | Location or Basin Name | 2016 | 2017 | 2018 | 2019 | 2020 |
| Fractured Rock | Paradise, Butte County | 12 | 40 | 12 | 0 | 0 |
| | **TOTAL** | 12 | 40 | 12 | 0 | 0 |
| NOTES: All volumes in AF. Well is located at PID's D Tank site. | | | | | | |

### 6.3.3 Aquifer Storage and Recovery

PID's groundwater well is not capable of aquifer storage and recovery (ASR). Additionally, there is no intent to retrofit this well or install others with ASR capability given the local groundwater conditions and viability of groundwater recharge.

## 6.4 Stormwater

PID does not maintain stormwater collection or treatment facilities, nor does it make use of stormwater flows. The Town of Paradise is the responsible agency for stormwater within PID's service area, but likewise does not make use of urban stormwater.

## 6.5 Wastewater and Recycled Water

The PID service area does not contain a centralized sewer system and is entirely served by septic systems. The Town is responsible for the collection, treatment, and disposal of wastewater via permitting of these septic systems. The community as a whole is evaluating conceptual opportunities for the development of sewer service; however, implementation of such a project would require extensive environmental analyses, permitting, and capital investment. Currently, there are no defined projects planned for the foreseeable future, as indicated in DWR Table 6-2~~DWR Table 6-2~~ and DWR Table 6-3~~DWR Table 6-3~~.

**DWR Table 6-2**

| Submittal Table 6-2 Retail: Wastewater Collected Within Service Area in 2020 | |
|---|---|
| ☑ | There is no wastewater collection system. |
| | Percentage of 2020 service area covered by wastewater collection system |
| | Percentage of 2020 service area population covered by wastewater collection system |

**DWR Table 6-3**

| Submittal Table 6-3 Retail: Wastewater Treatment and Discharge Within Service Area in 2020 | |
|---|---|
| ☑ | No wastewater is treated or disposed of within the UWMP service area. |

## 6.6 Recycled Water System

At the time of plan preparation, structures are served by septic tanks throughout the Town, with no centralized sewer system owned or operated by any entity. With no centralized sewer system, there is no opportunity for treatment or use of recycled water within PID's boundary. The viability of a local sewer system is being examined at this time at a conceptual level, creating the possibility of recycled supply in the long-term planning horizon. DWR Table 6-4~~DWR Table 6-4~~ and DWR Table 6-5~~DWR Table 6-5~~ reflect the inapplicability of this resource through the planning horizon of this document.

**DWR Table 6-4**

| Submittal Table 6-4 Retail: Recycled Water Direct Beneficial Uses Within Service Area | |
|---|---|
| ☑ | Recycled water is not used and is not planned for use within the service area of the supplier. |

**DWR Table 6-5**

| Submittal Table 6-5 Retail: 2015 UWMP Recycled Water Use Projection Compared to 2020 Actual | |
|---|---|
| ☑ | Recycled water was not used in 2015 nor projected for use in 2020. |

## 6.7 Actions to Encourage and Optimize Future Recycled Water Use

The community will continue work to examine the viability of a centralized sewer system and any associated opportunities to develop a recycled water supply as it continues to recover from the Camp Fire and look to the future of rebuilding and redevelopment of Butte County.

**DWR Table 6-6**

| Submittal Table 6-6 Retail: Methods to Expand Future Recycled Water Use | |
|---|---|
| ☑ | Supplier does not plan to expand recycled water use in the future. |

## 6.8 Desalinated Water Opportunities

The geographic location of PID precludes the use of desalinated water for any type of supply. PID's service area is located approximately 120 miles from the California sea coast, and approximately 2,000 feet in elevation above sea level.

## 6.9 Exchanges or Transfers

### 6.9.1 Del Oro Water Company

PID's maintains an agreement with their neighboring water purveyor, Del Oro Water Company, for the treatment and diversion of a limited quantity of water to serve the Paradise Pines District in nearby Magalia, north of Paradise. This water supply originates in Paradise Lake, is captured alongside PID owned supplies, and treated at the PID WTP. Once passing through the discharge meter at the WTP, the supplies are diverted to the Paradise Pines District. Terms of this agreement also allow for a small amount of water to be transferred to PID in an emergency.

An intertie at the southeast border of the PID service area exists between PID and another portion of Del Oro Water Company's service area. While this intertie is functional and capable of water transfer in an emergency, it is no longer operated for regular transfer of supply. Were its function to be updated, physical updates to the metering equipment would be required to quantify transfers of supply. There is no current plan to use this intertie for water sales or transfers.

## 6.10 Supply Management

Paradise Irrigation District has historically relied entirely on their surface water rights and District-owned WTP to provide reliable water in all year types to their customers. Post Camp Fire that outlook remains unchanged as the quality and availability of these surface water supplies has remained unaltered. PID has experienced a significant reduction in customers post-fire, causing PID to take reevaluate future water demands, regrowth of the community, and longevity of the infrastructure serving the community. As regrowth of the Town continues, PID is actively working toward the reconstruction and recovery of critical infrastructure as well as ways to increase the reliability and quantity of available supply for the future. While groundwater is also part of PID's water supply portfolio, there is no intent to rely upon this supply for future growth.

Each year, PID takes advantage of its direct diversion water right allowance (S008459) of 8 cubic feet per second (cfs) before any other supply is utilized. This is a requirement of PID's supply portfolio, but also necessary as this supply is only available during the time of year when runoff is actively entering the reservoir. Following this first use, PID uses its additional water right permits (271 and 16040) as necessary to store supplies for use later in the year when direct diversion is not possible.

## 6.11 Future Water Projects

The outlook for future water projects has shifted for PID since the Camp Fire. Foremost on the planning horizon are the following disaster recovery projects related to water supply and reliability:

1. Reservoir B Replacement – this critical reservoir was destroyed during the fire as it was an earthen embankment reservoir with a plastic lining. This reservoir served PID as a critical component of storage and a peaking facility.
2. Rehabilitation of Water Mains – PID continues to work toward the complete rehabilitation of those sections of water main still out of service or affected by physical damage or contamination. PID recently completed a full system survey of just over 170 miles of main line to assess leak damage sustained as a result of the disaster. Bringing these mains online will increase the reliability and access to potable water

for PID's customers, in addition to curtailing excess water losses and more accurately accounting for new patterns of customer usage.

In addition to disaster recovery related projects, PID is looking forward toward the long-term needs of the community for reliable and increased water supply in times of drought and with the promise of more severe droughts on the horizon related to climate change.

One such project is the Magalia Dam Retrofit Project, which is in the design phase at the time of plan preparation. PID is working to complete a full design for seismic retrofit of this dam, with the goal of reestablishing the previous water surface elevation allowing full storage capacity in the reservoir. At present, concerns related to dam stability and the presence of the Magalia fault within the left abutment of the dam have resulted in a restriction on the water surface elevation of (2,200 ft), 25.8 ft below the original water surface elevation of 2225.8 ft, a difference of approximately 2,000 AF of storage. The project is comprised of upstream and downstream buttressed supports constructed from on-site materials. This project is being designed in coordination with the California Department of Water Resources, Division of Safety of Dams.

As a requirement of backfill funding received by the state for PID to continue operations post-fire, an Options Study is underway to evaluate the future of Paradise Irrigation District and any viable opportunities for interties, partnerships, transfers, or other such enterprises which would contribute to the overall regional stability of water supply. This study is being conducted independently by the Sacramento State Office of Water Programs with input from local stakeholders and the public. The outcome of this study may inform additional future water supply projects or partnerships.

Alongside this Options Study, PID continues to examine other opportunities to expand or pursue new or additional diversions from the upper portions of the Feather River watershed, as those supplies may become available in the future for storage in Paradise Lake or Magalia Reservoir. PID recognizes the vulnerabilities associated with climate change and extended drought conditions in a watershed dependent almost exclusively upon rainfall conditions from year to year. With careful management and planning, PID continues to look to the future with local opportunities to partner and strengthen supply reliability.

## 6.12 Summary of Existing and Planned Sources of Water

PID's current planned sources of water can be summarized as such:

- PID's primary water supplies are surface water rights and uses from Little Butte Creek Watershed
- PID has one groundwater well, which at the time of plan preparation is non-operational. It does not represent a significant source of supply when operational.
- PID does not currently use storm water as a potable water offset.
- PID is not served by a centralized wastewater system and therefore no recycled water supplies are available for use.
- PID neither currently uses nor plans to use desalinated water.
- PID maintains direct treated water interties with Del Oro Water Company for the purpose of supplying the Paradise Pines District as well as emergency transfers.

PID's projections of future supply projects and efforts to strengthen the outlook of supply reliability are covered in DWR Table 6-7~~DWR Table 6-7~~. The actual 2020 water supplies for PID are summarized in DWR Table 6-9 and the future projected water supplies for PID are summarized in DWR Table 6-9.

**DWR Table 6-7**

| Submittal Table 6-7 Retail: Expected Future Water Supply Projects or Programs | | | | | |
|---|---|---|---|---|---|
| ☑ | No expected future water supply projects or programs that provide a quantifiable increase to the agency's water supply. Supplier will not complete the table below. | | | | |
| ☐ | Some or all of the supplier's future water supply projects or programs are not compatible with this table and are described in a narrative format. | | | | |
| | Provide page location of narrative in the UWMP | | | | |
| Name of Future Projects or Programs | Joint Project with other suppliers? | Description (if needed) | Planned Implementation Year | Planned for Use in Year Type | Expected Increase in Water Supply to Supplier |
| Reservoir B Replacement Project | No | Replace 3 MG earthen reservoir with two 1.5 MG bolted steel tanks. | 2021-2022 | All Year Types | None |
| Magalia Dam Retrofit Project | No | Retrofit the existing dam to increase stability and apply to DSOD for restablishment of previous reservoir elevation and storage levels. | 2030 | All Year Types | 2000 AF |
| D Tank Well Repair | No | Repair the well to active operational status. | 2030 | All Year Types | 45-350 AF |
| NOTES: Reservoir B was damaged by the 2018 Camp Fire. The reservoir has been offline since the damged was incurred. All volumes in AF. | | | | | |

**DWR Table 6-8**

| Submittal Table 6-8 Retail: Water Supplies — Actual | | | | |
|---|---|---|---|---|
| Water Supply | Additional Detail on Water Supply | 2020 | | |
| | | Actual Volume | Water Quality | Total Right or Safe Yield |
| Surface water (not desalinated) | Little Butte Creek Watershed | 4,370 | Drinking Water | 14,318 |
| | **Total** | 4,370 | | 14,318 |
| NOTES: Volumes in AF. | | | | |

**DWR Table 6-9**

**Submittal Table 6-9 Retail: Water Supplies — Projected**

| Water Supply | Additional Detail on Water Supply | Projected Water Supply | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 2025 | | 2030 | | 2035 | | 2040 | | 2045 | |
| | | Reasonably Available Volume | Total Right or Safe Yield | Reasonably Available Volume | Total Right or Safe Yield | Reasonably Available Volume | Total Right or Safe Yield | Reasonably Available Volume | Total Right or Safe Yield | Reasonably Available Volume | Total Right or Safe Yield |
| Surface water (not desalinated) | Adjudicated Water Use No. 8459 | 3,330 | 8 cfs | 3,330 | 8 cfs | 3,330 | 8 cfs | 3,330 | 8 cfs | 3,330 | 8 cfs |
| Surface water (not desalinated) | Water Right Permit 271 | 7,291 | 9,500 | 7,291 | 9,500 | 7,291 | 9,500 | 7,291 | 9,500 | 7,291 | 9,500 |
| Surface water (not desalinated) | Water Right Permit 16040 | 4,800 | 8,800 | 4,800 | 8,800 | 4,800 | 8,800 | 4,800 | 8,800 | 4,800 | 8,800 |
| Groundwater (not desalinated) | D Tank Well | 0 | 0 | 45 | 350 | 45 | 350 | 45 | 350 | 45 | 350 |
| **Total** | | 15,421 | 18,300 | 15,466 | 18,650 | 15,466 | 18,650 | 15,466 | 18,650 | 15,466 | 18,650 |

NOTES: Use No. 8459 is assumed to be available for approximately 150 days/year when direct diversion (does not allow for storage) is possible based on rainfall and flow into the reservoir. This is estimated at 2,500 AF/yr for a reasonably available volume. Permit 271 reasonably available volume is limited by the current maximum storage capacity of Magalia Reservoir at 800 AF. Permit 16040 available volume is limited by the current maximum storage capacity of Paradise Lake at 11.500 AF. The D Tank Well is current non-operational. As recovery operations from the 2018 Camp Fire continue, D Tank Well will be rehabilitated and operationalized again, estimated by 2030. In Normal Years, D Tank Well would be simply maintained at an estimated 45 AF, in drought years it is assumed to be utilized up to the historical capacity of 350 AF.

## 6.13 Climate Change Impacts to Supply

The District has acknowledged and incorporated lessons learned from the last 10 years of increased climate related impacts to the reliability of its water supply. Most prominently are the effects of extended drought and prolonged fire season duration which contributed significantly to the intensity of the 2018 Camp Fire.

A United States Geological Survey (USGS) study conducted on the Feather River Watershed, published in 2011 and included in Appendix G and accessible on the USGS website at https://pubs.usgs.gov/fs/2011/3125/, analyzed trends in key metrics and vulnerabilities of the watershed out to the year 2099. This study was conducted as part of the USGS Global Change study and was specific to the region and water resources surrounding and supplying Paradise Irrigation District. This study outlines the vulnerability of the Feather River basin to any changes in temperature, specifically given that large areas of the upper watershed are at or around the historic snowline. The study shows a likelihood across several emissions scenarios of an increase in both average maximum and average minimum temperatures, concluding that the trends in rainfall vs. snowpack, as well as timing of runoff, will likely shift as a result. PID's specific supplies from Little Butte Creek Watershed have historically been more dependent upon rainfall capture than snowmelt, indicating a possible resilience to these shifts in temperature given otherwise normal precipitation totals. The study however concludes that average annual rainfall totals will likely cycle through decadal highs and lows, supporting the likelihood of extended drought conditions to come. This wide range of rainfall predictions is also indicative of a high level of uncertainty in the projections.

Overall, it is anticipated that PID's surface water supplies will be more vulnerable to declining snowpack and fluctuations in annual runoff totals in coming years, with potential for severe limitations in single dry years as well as periods of persistent drought. Examining regional opportunities for diversification of supply, partnerships and interties, as well as responsible conservation principles will aid PID in forward planning with respect to these climate change impacts. There is no known deficit of supply in the planning horizon of this UWMP, even considering the likely impacts of climate change in that time period with increasing temperature, reduction in rainfall, and declining snowpack.

## 6.14 Energy Intensity

A new requirement of the CWC, pursuant to 10631.2. (a), for 2020 UWMPs is that suppliers must include information that can be used to calculate the energy intensity of their water service. Typically, a large portion of energy consumed in municipalities is dedicated to the conveyance, treatment, distribution, and storage of water and wastewater. Maintaining water systems involves numerous pumps, motors, and other equipment which run for most or all hours of the day year-round. Because the water operations consume a significant amount of energy, these facilities can be a substantial contributor to greenhouse gas emissions in communities. Understanding how much energy is consumed at PID's water treatment, distribution, and storage facilities is critical to ensuring that PID is mindfully and efficiently utilizing energy resources. An analysis of the energy intensity, which is the amount of energy consumed per the volume of water supplied, is provided in PID Table 6-C.

**PID Table 6-C** Annual Energy Intensity Reporting for 2020.

| Start Date for Reporting Period | 1/1/2020 | Sum of Water Management Processes |
|---|---|---|
| End Date | 12/31/2020 | |
| Volume of Water Entering Process (AF) | | 4,370 |
| Energy Consumed (kWh) | | 823,701 |
| Energy Intensity (kWh/AF) | | 188.5 |
| NOTES: Values include only water management processes that are under PID's operational control. | | |

# Chapter 7 Water Service Reliability and Drought Risk Assessment

This chapter describes the long-term reliability of PID's water supply portfolio in all hydrologic year types out to the year 2045 including a Drought Risk Assessment, assuming a drought condition through the coming five years. PID's existing and planned water management strategies and options for increasing the reliability of water supplies are also addressed. Shorter term reliability planning that may require immediate action, such as drought or a catastrophic supple interruption, is addressed in the Water Shortage Contingency Plan. These requirements are outlined in the CWC as follows:

> *Water Code Section 10635(a)*
> *Every urban water supplier shall include, as part of its urban water management plan, an assessment of the reliability of its water service to its customers during normal, dry, and multiple dry water years. This water supply and demand assessment shall compare the total water supply sources available to the water supplier with the long-term total projected water use over the next 20 years, in five-year increments, for a normal water year, a single dry water year, and a drought lasting five consecutive water years. The water service reliability assessment shall be based upon the information compiled pursuant to Section 10631, including available data from state, regional, or local agency population projections within the service area of the urban water supplier.*

## 7.1 Constraints on Water Sources

This section addresses potential legal, environmental, water quality, and climatic effects on the reliability of water supply sources through the year 2045. Climactic changes from seasonal rainfall result in inconsistent water supply from year to year, however the District uses a combination of a Yield Analysis Model and additional supply data to monitor annual conditions and determine appropriate planning actions to achieve reliability for PID's customers.

### 7.1.1 Legal Constraints

PID does not anticipate that legal constraints will affect the reliability of water supply through the term of this Urban Water Management Plan; however, several legal terms do apply to the water rights that PID holds. Those terms are described below.

#### *7.1.1.1 Statement of Water Diversion and Use No. S008459*

PID's most senior water right has a priority date prior to 1914 and has been adjudicated. PID must make first use of this supply right whenever diverting water. It is a direct diversion right, meaning is it not intended for diversion to storage, but rather use as the diversion is taking place. There are no other legal constraints that apply to this supply right.

#### *7.1.1.2 Water Right Permit 271 (Application A000476)*

PID's second most senior water right has a priority date of 1916 and remains in permit status. This right includes all season diversion to storage allowance for both Paradise and Magalia Reservoir. DSOD requirements limit the amount of storage that can be held in Magalia reservoir by the setting of a reduced water surface elevation. The date for full beneficial use of this supply occurred in December 2007. A request was made to the State Water

Resources Control Board seeking a License for the amount of water perfected to date. Additionally, a Petition was filed to seek an increase in the place of use area from the original 11,500 acres to a total area of 35,000 acres to include areas of Del Oro Water Company's Magalia, Paradise Pines, and Limesaddle Districts (as shown in Appendix H), as well as some improvements to facilitate several new beneficial uses (*e.g.*, hydropower, raw water transfer). The CEQA process for the petition has begun but is not yet complete. The CEQA document must be completed before the SWRCB can approve the petition and issue a License.

#### *7.1.1.3 Water Right Permit 16040 (Application A022061)*

PID's most junior water right has a priority date of 1965; however, it remains in permit status and has not yet been perfected. This right allows for wet season (October 1 to May 31) diversion to storage in Paradise Lake; however, the existing capacity of Paradise Lake does not allow for the full use of this storage right. The date in which full beneficial use was to be made was December 2007. Since PID had not made full beneficial use at that time, a petition was submitted to the State Water Resources Control Board seeking a 25-year extension as well as several other improved terms. These included an increase in the place of use area from the original 11,500 acres to a total area of 35,000 acres to include areas of Del Oro Water Company's Magalia, Paradise Pines, and Limesaddle Districts (as shown in Appendix H), as well as some improvements to facilitate several new beneficial uses (*e.g.*, hydropower, raw water transfer). The CEQA process for the petition has begun but is not yet complete. The CEQA document must be completed before the SWRCB can issue an approval of the petition.

This water right is subject to Term 91. Term 91 can be enacted to curtail diversions within the Sacramento-San Joaquin River Delta watershed when the Central Valley Project and State Water Project conditions dictate a need to release water for in-basin entitlements. When enacted, PID is notified that all diversions under this right are curtailed until such time as the Term 91 is lifted later in the year. Typically, this does not have a measurable effect on PID since flows from which diversions can be made in Butte Creek are typically very low or nonexistent at the point in the year when the Term 91 is generally enacted (late spring/early summer).

### 7.1.2 Water Quality Constraints

PID receives a very consistent high quality surface water supply from its watershed. Butte County has established a watershed protection zone inclusive of the runoff into Paradise Lake and Magalia Reservoir. Prior to the 20~~8~~18 Camp Fire, the District's primary water quality vulnerability was a point source contamination of Magalia Reservoir stemming from the highway across the dam – for example, an overturned tanker truck spilling into the reservoir. In order to mitigate this risk, PID received grant funding from DWR and the Infrastructure Bank of California and constructed the Magalia Reservoir Raw Water Bypass. PID was then able to receive supplies above Magalia Reservoir and deliver them directly to the WTP.

Until the Camp Fire occurred, causing widespread damage to the Town of Paradise and resulting significant impacts to the PID water distribution system, wildfire had not been considered a water quality hazard for PID. In the weeks following the Camp Fire, PID issued a Water Quality Advisory to its customers out of concern for possible contamination of the water distribution system. Upon initial testing, it was determined that contamination resulting from the exposure of the distribution piping network to volatile organic compounds, or VOCs, had occurred. It was also confirmed that the Water Treatment Plant and source water in Paradise and

Magalia Reservoirs had not been affected by the fire and were of the same high quality. This allowed PID to focus on the pipe network itself in determining the extent of VOC contamination.

PID staff undertook a large-scale water quality sampling effort, collecting samples from over 6,000 locations and running over 400,000 individual tests in order to characterize the extent and nature of this VOC contamination. Overall, it was determined that 95% of the mains were clear and serving potable water. Approximately 50% of service laterals serving structures which had burned in the fire were found to contain contaminants. As a result of these determinations, PID has undertaken a systematic program to replace service laterals serving destroyed structures portions of water mains where persistent contamination has been found are also being replaced as part of this program. As these replacements have taken place, PID has lifted the Water Quality Advisory to each structure as confirmation of potable water quality at each site is achieved.

Since August of 2020, following the Recovery Water Quality Sampling effort, PID has conducted continuous Assurance Monitoring, systematically sampling throughout the service area to confirm the continued potability of the water delivered throughout. The results of the Assurance Monitoring program indicate that PID continues to serve customers with reliable, high quality potable water.

### 7.1.3 Physical Constraints

The physical constraints of recycled water, surface water, and groundwater are discussed in the following sections.

#### *7.1.3.1 Recycled Water*

Recycled water is not part of PID's supply portfolio as there is no centralized treatment of wastewater within the Town of Paradise and thus no production of recycled water for use. Development of these systems is not currently planned within the horizon of this document although general feasibility is being analyzed at this time.

#### *7.1.3.2 Surface Water*

PID is highly dependent upon the water supply storage provided by the Paradise and Magalia Dams. At the time of plan preparation, PID's full allotment of water rights cannot be realized due to the physical constraint of limited storage capacity.

Paradise Lake is currently limited to a water surface elevation of 2568, with a maximum storage capacity of 11,500 AF. Without this physical storage constraint, PID would be able to divert and store up to 15,500 AF of water supply at this location, representing a 4,000 AF limitation.

Magalia Reservoir is currently limited to a water surface elevation of 2,200, approximately 26 feet below the physical crest of the dam. This limitation was imposed by DSOD in 1997 in response to concerns regarding the stability of Magalia Dam and the nature of its hydraulic fill, earthen embankment construction. The Magalia Fault traverses the left abutment of the Dam itself, which is designated by DSOD as a conditionally active fault at this time. These conditions have limited the operational storage at the Dam to the current water surface elevation, with a maximum storage of 800 AF. Without this limitation, Magalia Dam can store up to 2,800 AF of water supply, a difference of 2,000 AF. PID is currently in the design phase of a project to retrofit Magalia Dam and correct any stability deficiencies. Once PID can secure funding for the construction of this project and move forward with

construction, a petition will be made to the DSOD to restore the original water surface elevation of 2,225.8, alleviating this storage constraint.

#### *7.1.3.3 Groundwater*

The physical constraints on the current groundwater supply are the result of the operation and pumping capacity of PID's single well. At the time of plan preparation, the well is non-operational. As Recovery efforts continue, the well will be identified in order of priority as a project for PID to repair. Once operational again, the well is still limited by the physical nature of water supply in fractured rock conditions.

### 7.1.4 Other Constraints

Aside from legal and physical constraints, there are no other identified constraints in supply for PID.

## 7.2 Water Supply Reliability Assessment

This section addresses the reliability of the PID's water supply in average, single dry, and multiple dry water years. PID uses the following water year definitions from the Guidebook:

**PID Table 7-A** Reliability Assessment Year Type Characterization

| Year Type | Description | Representative Year Selected |
|---|---|---|
| Average or Normal Year | A single year or averaged range of years that most closely represents the average water supply available to the Supplier. | 1936 |
| Single Dry Year | The year that represents the lowest water supply available to the Supplier. | 1933 |
| Five Consecutive Year Drought | The driest five-year historical sequence for the supplier. | 1929-1933 |

The reliability of the potable water supply is discussed in the following sections and is compared to the projected potable water demand. There is no supply or demand for recycled water.

### 7.2.1 Potable Water Supply and Demand Assessment

This section provides an assessment of PID's expected water supply and demand for Normal Year, Single Dry Year, and Five Consecutive Year Drought scenarios, based on data available at the time of publication of this UWMP.

As shown in PID Table 7-A above, PID has identified the following base water years to represent the Year Types:

- **Average or Normal Year**: 1936
- **Single Dry Year**: 1933
- **Five Consecutive Year Drought**: 1929-1933

PID has identified these base water years based on the District's Yield Analysis Model, including a combination of runoff and reservoir storage data. These years listed above represent an average year of runoff (assumed 100% of supply), a critically dry year (29% of average), and the lowest five-year average runoff in complete PID records (78% down to 29% of average over 5 years). Supply availability calculations were conducted on a calendar year basis in this UWMP update, as opposed to water year calculations as was done in the 2015 UWMP. Available supply was calculated by taking the storage volume in PID's reservoirs on January 1 of the year, calculating the

direct diversions PID was able to make use of (above a 0.5 cfs base environmental bypass flow), and finally calculating additional runoff available for storage in the reservoirs, in compliance with PID's water rights described elsewhere in this UWMP. Supply volumes calculated this way for base years are provided in DWR Table 7-1.

**DWR Table 7-1**

| Submittal Table 7-1 Retail: Basis of Water Year Data (Reliability Assessment) | | | |
|---|---|---|---|
| Year Type | Base Year<br>If not using a calendar year, type in the last year of the fiscal, water year, or range of years, for example, water year 2019-2020, use 2020 | Available Supplies if Year Type Repeats<br>☐ Quantification of available supplies is not compatible with this table and is provided elsewhere in the UWMP. Location _____<br>☑ Quantification of available supplies is provided in this table as either volume only, percent only, or both. | |
| | | Volume Available * | % of Average Supply |
| Average Year | 1936 | 21,141 | 100% |
| Single-Dry Year | 1933 | 6,071 | 29% |
| Consecutive Dry Years 1st Year | 1929 | 15,223 | 72% |
| Consecutive Dry Years 2nd Year | 1930 | 16,465 | 78% |
| Consecutive Dry Years 3rd Year | 1931 | 12,182 | 58% |
| Consecutive Dry Years 4th Year | 1932 | 9,239 | 44% |
| Consecutive Dry Years 5th Year | 1933 | 6,071 | 29% |
| NOTES: The above years represent the Normal Year, lowest single year available supply, and the lowest 5 year supply with complete PID records. Each year's supplies includes any remaining storage left from the previous year supply, taken into account at January 1 of each year. D Tank Well supplies are not included in these values as the well was not yet constructed in these years, nor is it currently planned for reoperation until 2030. | | | |

### 7.2.2 Comparison of Supply and Demand

A comparison of projected water supply and demand during Normal, Single Dry, and Five Consecutive Year Drought conditions are included in DWR Table 7-2, DWR Table 7-3, and DWR Table 7-4. It is important to note that in all scenarios shown in these tables, Normal Year demands are shown, without the expected conservation percentages ranging from 10-50% that would be expected in drought conditions. By comparing reduced supply volumes in dry years to Normal Year demand levels, it is shown conservatively that PID is able to successfully meet demand in all year types.

### 7.2.3 Total Water Supply and Demand Comparison

A comparison of projected total potable water supply and demand during a Normal Year is included in DWR Table 7-2. As shown, there is an adequate water supply in Normal Years to meet demands through 2045.

**DWR Table 7-2**

| Submittal Table 7-2 Retail: Normal Year Supply and Demand Comparison | | | | | |
|---|---|---|---|---|---|
| | 2025 | 2030 | 2035 | 2040 | 2045 |
| Supply totals | 21,141 | 21,186 | 21,186 | 21,186 | 21,186 |
| Demand totals | 3,957 | 4,356 | 4,914 | 5,109 | 5,084 |
| Difference | 17,184 | 16,830 | 16,272 | 16,077 | 16,102 |
| NOTES: All volumes in AF. Note, this Normal Year supply differs from that outlined in DWR Table 6-9 as these values include reasonably expected storage volumes remaining in the reservoirs on January 1 from the previous years' supply. D Tank Well assumed to be repaired and operational to the standard capacity of 45 AF in normal year conditions as of the year 2030 when it is expected to be in operation again. | | | | | |

A comparison of projected water supply and demand during a Single Dry Year is included in DWR Table 7-3. As shown, there is adequate water supply to meet demand in single dry years through 2045, even with supplies reduced as far down as 29% of Normal.

**DWR Table 7-3**

| Submittal Table 7-3 Retail: Single Dry Year Supply and Demand Comparison | | | | | |
|---|---|---|---|---|---|
| | 2025 | 2030 | 2035 | 2040 | 2045 |
| Supply totals | 6,071 | 6,421 | 6,421 | 6,421 | 6,421 |
| Demand totals | 3,957 | 4,356 | 4,914 | 5,109 | 5,084 |
| Difference | 2,114 | 2,065 | 1,507 | 1,312 | 1,337 |
| NOTES: All volumes are in AF. All supply volumes include storage remaining in the reservoirs on January 1 of each year. D Tank Well assumed to be repaired and operational to the full historical capacity of 350 AF in drought conditions as of the year 2030 when it is expected to be in operation again. | | | | | |

A comparison of projected water supply and demand during a Five Consecutive Year Drought is included in DWR Table 7-4. As shown, there is adequate water supply to meet demand in all extended drought years through 2045.

**DWR Table 7-4**

| Submittal Table 7-4 Retail: Multiple Dry Years Supply and Demand Comparison | | | | | | |
|---|---|---|---|---|---|---|
| | | 2025 | 2030 | 2035 | 2040 | 2045 |
| First year | Supply totals | 15,223 | 15,573 | 15,573 | 15,573 | 15,573 |
| | Demand totals | 3,957 | 4,356 | 4,914 | 5,109 | 5,084 |
| | Difference | 11,266 | 11,217 | 10,659 | 10,464 | 10,489 |
| Second year | Supply totals | 16,465 | 16,815 | 16,815 | 16,815 | 16,815 |
| | Demand totals | 3,957 | 4,356 | 4,914 | 5,109 | 5,084 |
| | Difference | 12,508 | 12,459 | 11,901 | 11,706 | 11,731 |
| Third year | Supply totals | 12,182 | 12,532 | 12,532 | 12,532 | 12,532 |
| | Demand totals | 3,957 | 4,356 | 4,914 | 5,109 | 5,084 |
| | Difference | 8,225 | 8,176 | 7,618 | 7,423 | 7,448 |
| Fourth year | Supply totals | 9,239 | 9,589 | 9,589 | 9,589 | 9,589 |
| | Demand totals | 3,957 | 4,356 | 4,914 | 5,109 | 5,084 |
| | Difference | 5,282 | 5,233 | 4,675 | 4,480 | 4,505 |
| Fifth year | Supply totals | 6,071 | 6,421 | 6,421 | 6,421 | 6,421 |
| | Demand totals | 3,957 | 4,356 | 4,914 | 5,109 | 5,084 |
| | Difference | 2,114 | 2,065 | 1,507 | 1,312 | 1,337 |
| NOTES: All volumes are in AF. All supply volumes include storage remaining in the reservoirs on January 1 of each year. D Tank Well assumed to be repaired and operational to the full historical capacity of 350 AF in drought conditions as of the year 2030 when it is expected to be in operation again. | | | | | | |

As stated in DWR Table 7-4, DWR Table 7-3, and DWR Table 7-2, there is sufficient supply to meet demands in all year types through 2045.

### 7.2.4 Deficit Mitigation

Paradise relies upon annual precipitation and runoff in the Butte Creek watershed. Depending upon trends in climate change, annual precipitation and snowpack conditions, Paradise may experience shortage in the future. However, through the planning horizon of this Urban Water Management Plan, there is no anticipated shortage of supply in any year type. This is partially due to the reduction in demand caused by the 2018 Camp Fire. As Paradise continues to rebuild following the disaster, trends in redevelopment and possible intensification may change the outlook of water supply through 2045. Much of those development trends cannot be predicted yet, so soon after such an unprecedented community change. PID is committed to working in close partnership with the Town of Paradise and Butte County to track these trends and plan accordingly in both the short and long-term.

## 7.3 Drought Risk Assessment

In DWR Table 7-5, the lack of any deficit in supply for a near-term extended drought condition is shown. PID actively encourages responsible use of water and conservation principles in all year types; however, there is no indication of the need for these conservation efforts to mitigate a shortage of supply.

The availability of each of PID's water rights is examined in Chapter 6 of this UWMP, specifically in PID Tables 6-A and 6-B whereby discussion of season limitations and curtailments are outlined. PID's reliance on runoff from the Feather River Watershed is significantly mitigated by PID's storage rights in Paradise Lake and Magalia Reservoir. Even considering physical limitations on these storage quantities, PID is able to demonstrate reliable water supply for Normal Year demands through the horizon of this planning document in all hydrologic year types.

The USGS climate change study cited in Chapter 6 outlines a cyclical pattern to precipitation quantities through 2099, but no overall decline. In periods of extended drought, PID is demonstrably able to continue to supply high quality water. In periods of excess, PID can store supplies against future drought.

**DWR Table 7-5**

| Submittal Table 7-5: Five-Year Drought Risk Assessment Tables to address Water Code Section 10635(b) | | | | | |
|---|---|---|---|---|---|
| Category | 2021 | 2022 | 2023 | 2024 | 2025 |
| Total Water Use | 4,287 | 4,205 | 4,122 | 4,040 | 3,957 |
| Total Supplies | 15,223 | 16,465 | 12,182 | 9,239 | 6,071 |
| Surplus/Shortfall w/o WSCP Action | 10,936 | 12,260 | 8,060 | 5,199 | 2,114 |
| **Planned WSCP Actions** (use reduction and supply augmentation) | | | | | |
| WSCP - supply augmentation benefit | 0 | 0 | 0 | 0 | 0 |
| WSCP - use reduction savings benefit | 0 | 0 | 0 | 0 | 0 |
| Revised Surplus/(shortfall) | 10,936 | 12,260 | 8,060 | 5,199 | 2,114 |
| Resulting % Use Reduction from WSCP action | 0% | 0% | 0% | 0% | 0% |

## 7.4 Regional Supply and Reliability

All water consumed by PID comes from local supply sources. No water is imported from other regions, nor does PID anticipate importing water from other regions throughout the UWMP planning period. However, the District is actively engaged in planning on multiple potential projects and coordination intended to strengthen water supply reliability throughout the Ridge area, in addition to investing in long-term water storage augmentation projects like the future Magalia Dam Retrofit Project. Projects like Magalia Dam will correct flood risk issues in the Paradise and Magalia areas as well as downstream, while also providing additional stability of water supply and storage in the region. PID is a committed regional partner in working to solve supply shortage issues before they become a critical reality, with climate change and increasingly limited supply sources at the crux of the issue. PID will continue these efforts into the future and work with its partner agencies to find the best path forward.

# Chapter 8 Water Shortage Contingency Plan

Following the severe drought of 2012-2016, State of California Legislature sought to expand the water shortage contingency analysis under former law and mandated that a water shortage contingency plan (WSCP) be adopted by suppliers. A copy of the WSCP is provided in Appendix I.

# Chapter 9 Demand Management Measures

This chapter describes PID's historical and existing water conservation program, status of implementation of Demand Management Measures (DMMs), and projected future conservation implementation. The CWC requires that the UWMP include a comprehensive description of historical, current, and projected water conservation programs.

> *CWC 10631 (e) Provide a description of the supplier's water demand management measures. This description shall include all of the following:*
>
> *(1) (A) For an urban retail water supplier, as defined in Section 10608.12, a narrative description that addresses the nature and extent of each water demand management measure implemented over the past five years. The narrative shall describe the water demand management measures that the supplier plans to implement to achieve its water use targets pursuant to Section 10608.20.*
>
> *(B) The narrative pursuant to this paragraph shall include descriptions of the following water demand management measures:*
>
> *(i) Water waste prevention ordinances.*
>
> *(ii) Metering.*
>
> *(iii) Conservation pricing.*
>
> *(iv) Public education and outreach.*
>
> *(v) Programs to assess and manage distribution system real loss.*
>
> *(vi) Water conservation program coordination and staffing support.*
>
> *(vii) Other demand management measures that have a significant impact on water use as measured in gallons per capita per day, including innovative measures, if implemented.*

In previous UWMPs, a substantial amount of data was required to document a water supplier's progress in implementing fourteen specific DMMs. In 2014, Assembly Bill 2067 simplified, clarified, and updated reporting requirements for DMMs. Starting with the 2015 UWMP, focus has turned away from detailed descriptions of each of the fourteen DMMs and has turned to water conservation measures that are being implemented to achieve compliance with SB X7-7. For retail agencies, the number of DMMs has been reduced from fourteen to six (plus an "other" category). A narrative description of the status of the DMMs and how the DMMs will help the water supplier achieve its SBX7-7 water use targets is required. Detailed data are not required.

## 9.3 Demand Management Measures

The six DMMs required to be discussed in the 2020 UWMP include the following:

- Water waste prevention ordinances
- Metering
- Conservation pricing
- Public Education and outreach
- Programs to assess and manage distribution system real loss
- Water conservation program coordination and staffing support

For each DMM, the current program is described, followed by a description of how the DMM was implemented over the previous five years and the planned implementation to achieve the water use targets required by SBX7-7.

### 9.3.1 Water Waste Prevention Ordinances

In 2015, PID passed and adopted Ordinance No. 2015-01 (Appendix J), An Ordinance Adopting Enforcement Procedures, Fines, and Penalties for failing to water conservation measures. The ordinance provides penalties for all violations to PID's Water Conservation Program, as well as PID's policies, rules, and regulations. Per the ordinance, PID utilizes a progressively more stringent enforcement procedures in issuing administrative citations:

i. First administrative citation: written warning
ii. Second administrative citation (within any 12-month period): $100 for each violation cited
iii. Third administrative citation (within any 12-month period): $200 for each violation cited
iv. Fourth administrative citation (within any 12-month period): $500 for each violation cited
v. Fifth and succeeding administrative citation (within any 12-month period): PID may resort to any and all available legal remedies. This may include suspending or reducing deliveries to the property.

PID encourages customers to sign up for the DropCountr app that allows customers to monitor their water use and receive leak alerts. Additionally, customers can visit https://pidwater.com/reportwaste for instructions on how to report water waste, which is then further investigated by PID staff.

Implementation of this DMM is ongoing and expected to help PID achieve its water use targets by minimizing the nonessential uses of water so that the water is available to be used for residential consumption, sanitation, and fire protection.

### 9.3.2 Metering

Prior to the Camp Fire, PID was fully metered and utilized an Automatic Meter Reading (AMR) system to read all meters and check for unusual customer use patterns and leaks. At the time of the fire, PID was in the process of updating this AMR system to Advanced Metering Infrastructure, or AMI. PID meters and AMR/AMI infrastructure were damaged during the 2018 Camp Fire. At the time of plan preparation, PID customers pay a nominal fee for active water service, or a sealed rate if their service is no longer active. Meter replacement and installation projects will begin in mid-2021 and are scheduled for completion by the end of 2022 when PID anticipates a return to metered service. The projects are currently slated to install metered service at up to 4,500 locations throughout the PID service area. The installation of an Advanced Metering Infrastructure (AMI) system will allow PID to improve operational efficiency and more closely track water use, waste, and leaks on a timely basis.

The metering DMM helps PID achieve its water use targets by providing accurate water use information to both the customer and PID. Higher than normal comparative usage triggers outreach to customers who may have leaks, as well as awareness of efficient water use practices. Overall, metering assists PID in managing customer water use and leak detection efforts.

### 9.3.3 Conservation Pricing

Prior to the 2018 Camp Fire, PID implemented a simple rate structure with a single tier. Following the 2018 Camp Fire, and due to meter damage sustained in the fire, PID's customer pay only the monthly service fee or sealed

rate and are not currently charged for volumetric water usage. PID's Meter Installation and Service Lateral Phase 2 Project, slated to start in 2021, will support the return of the distribution system to metered service, and PID will resume charging customers for volumetric water consumption.

At the time of plan preparation, PID intends to reimplement a simple rate structure with a single tier once metered service is returned. In accordance with the provisions of Proposition 218 and case law in the state of California, PID has no plans to implement a conservation pricing structure currently.

### 9.3.4 Public Education and Outreach

PID actively engages with the public on a regular basis to share information, best practices, and encourage the responsible use of water resources in the community. The primary point of interaction of public education and outreach is PID's customer service staff, working with the community on a daily basis to resolve questions, set expectations, and represent PID's principles within the Town of Paradise and the region as whole. PID also actively engages the public in the electronic sphere with information disseminated on PID's website as well as social media platforms such as Facebook. Additionally, where new or critical information may be helpful in guiding the water use practices of PID's customers, brochures in local venues, billing inserts, and changeable message signs are employed to help get the word out. Each year in the spring, PID's Board of Directors traditionally adopts a resolution encouraging the use of Wise Water Principles in the community. In the past PID had operated a customer portal through AquaHawk, serving several functions including customer engagement, access to water usage information, and leak detection notification. Following the Camp Fire and in preparation for major efforts to reinstall metered service throughout the District, PID has engaged with a new vendor, DropCountr, to provide additional outreach capability, notifications, and reminders to customers to be aware of water use patterns, ongoing recovery operations, and general educational messages shared by PID. Both before and after the 2018 Camp Fire, PID has been and remains committed to a transparent and educational dialogue with the community of Paradise.

### 9.3.5 Programs to Assess and Manage Distribution System Real Loss

Prior to the Camp Fire, PID employed standard industry practices in the identification and resolution of distribution system leakage. Concerted efforts were made through sections of the distribution network surveyed for leaks to repair and eliminate as much water loss as practical. At that time, the percentage of real loss was estimated to be around 8% of demand.

The Camp Fire and recovery operations to follow caused widespread physical damage to the distribution network including heat damage, dried gaskets, burning roots, fallen trees, debris removal excavation, extreme heavy loading from equipment/hauling, as well as mass reconstruction efforts throughout the service area. At present, PID crews respond to an average of 10 leaks a week caused primarily by contractor or other utility staff encountering and causing damage to underground piping. This amount of damage, both experienced and ongoing, creates a very challenging environment within which to work toward reduced system losses. In addition, at the time of plan preparation, PID does not have metered water usage by customers, creating an even greater challenge to the characterization of real loss itself. Regardless, PID has embarked upon aggressive efforts to repair and reclaim the distribution network, working to bring reliable service back as efficiently as possible. In early 2021, PID contracted for a full system leak detection survey and report to detail those leaks for which repairs have not yet been made. The results of this report have been initially analyzed for inclusion in the District's CIP planning

efforts to support repair of those identified. As the survey took place, more severe leaks were repaired as they were found, with those less severe tagged in the Districts Geographic Information System (GIS) mapping tools for later repair. PID is committed to reclaiming these lost water supplies as soon as is practical amongst other recovery efforts, and the planning for those projects is currently underway.

### 9.3.6 Water Conservation Program Coordination and Staffing Support

Coordination of PID's Water Conversation Program is performed by the District Manager and Assistant District Manager, with the staff support of various other individuals of PID's internal water conservation program team.

In compliance with DWR's UWMP guidelines, the contact information for PID's District Manager is listed below:

Tom Lando
District Manager
Paradise Irrigation District
530-877-4971 (office)
tlando@paradiseirrigation.com

### 9.3.7 Implementation Over the Past Five Years

In 2016 through the majority of 218, PID worked as described above to implement demand management measures each year, encouraging the participation of the community in active participation in best practices. The Camp Fire occurred in November of 2018. Since that time, PID's efforts have been primarily focused on the necessary recovery actions and restoring reliable potable service to as many customers as possible to support the rebuilding needs of the community. This has necessitated an obvious pause in effort to message the conservation and best management of water supply in favor of the more basic needs of the community.

As the rebuilding efforts have continued and a sense of normalcy has begun to return to Paradise, PID has taken the opportunity again to reintroduce public messaging and water conservation into PID's community dialogue. As the state enters another drought year, PID will continue to engage its customers on this topic and rebuild the framework of community support and interactive demand management measures.

## 9.4 Planned Implementation to Achieve Water Use Targets

In most instances, helping customers understand the savings that can be achieved and methods available to achieve these savings is enough to motivate change. Through the above DMMs, PID can help customers identify these savings, which in turn helps PID to achieve its water use targets. Additionally, PID will continue to work with outside agencies, contractors, and property managers to improve water use efficiency.

## 9.5 Members of the California Urban Water Conservation Council

PID is not a signatory of the California Water Efficiency Partnership's MOU (formerly the California Urban Water Conservation Council or CUWCC).

# Chapter 10 Plan Adoption and Submittal

This chapter provides information regarding the notification, public hearing, and adoption of the plan.

## 10.1 Inclusion of all 2020 Data

Because 2020 is the final compliance year for SB X7-7, the 2020 UWMPs must contain data through the end of 2020. If a water supplier bases its accounting on a fiscal year (July through June) the data must be through the end of the 2020 fiscal year (June 2020). If the water supplier bases its accounting on a calendar year, the data must be through the end of the 2020 calendar year (December 2020).

As indicated in Chapter 1, PID uses a calendar year for the water supply and demand accounting, and therefore this 2020 UWMP includes data through December 2020.

## 10.2 Notice of Public Hearing

PID provided 60-day notice of the preparation of its 2020 UWMP, and the notice of the 2020 UWMP Public Hearing to the cities and counties listed in DWR Table 10-1. Additional 60-day notice of the Amendment process and Amended 2020 UWMP Public Hearing were again sent to the same entities listed below.

**DWR Table 10-1**

| Submittal Table 10-1 Retail: Notification to Cities and Counties | | |
|---|---|---|
| City Name | 60 Day Notice | Notice of Public Hearing |
| Town of Paradise | Yes | Yes |
| County Name | 60 Day Notice | Notice of Public Hearing |
| Butte County | Yes | Yes |

All agencies and organizations notified included the following:

- Town of Paradise
- Butte County Public Works Director
- Butte County Water and Resource Conservation Department
- California Water Service
- Del Oro Water Company
- Cal Fire Station 81
- Rebuild Paradise
- Paradise Ridge Chamber of Commerce
- Mechoopda Indian Tribe of Chico Rancheria
- City of Oroville Public Works Department
- City of Chico Public Works Department

Public hearing notifications were published in the local newspaper and on the PID's website. Copies of the published Notice of Public Hearing for the initial plan as well as the Amended plan are both included in Appendix K.

## 10.3 Public Hearing and Adoption

PID has encouraged community and public interest involvement in the Plan update through the use of mailings, public meetings, and web-based communication. Copies of the PID's outreach efforts are included in Appendix A.

The public hearing provides an opportunity for all PID water users and the general public to become familiar with the Urban Water Management Plan as well as the Water Shortage Contingency Plan and ask questions about its contents. In addition, the hearing will present an opportunity for the public to learn about or comment on PID's continuing plans for providing a reliable, safe, high-quality water supply. Copies of the draft Urban Water Management Plan, including the Water Shortage Contingency Plan, were made available for public inspection on PID's website. The public hearing will be held on June 21, 2021.

This Urban Water Management Plan and Water Shortage Contingency Plan will be presented to the Board of Directors on June 21, 2021, following the public hearing, for adoption. Copies of the adoption resolutions will be provided in Appendix L.

## 10.4 Plan Submittal

A copy of this Amended 2020 UWMP will be submitted to DWR within 30 days of adoption. ~~and by July 1, 2021~~. The adopted Amended UWMP will be submitted electronically to DWR using the Water Use Efficiency data submittal tool. A CD or hardcopy of the adopted Amended 2020 UWMP will also be submitted to the California State Library.

No later than 30 days after adoption, a copy of the adopted Amended 2020 UWMP, including the Water Shortage Contingency Plan, will be provided to the Town and Butte County for which PID provides water.

## 10.5 Public Availability

No later than 30 days after submittal to DWR, copies of this 2020 UWMP will be available for public review at PID's office. An electronic copy of this Plan will also be available for review and download on PID's website https://pidwater.com/uwmp.

## 10.6 Public Implementation

This Plan will be the source document for any Senate Bill 610 Water Supply Assessment or Senate Bill 221 Water Supply Verifications required for any proposed projects between 2021 and 2025 that are subject to the California Environmental Quality Act (CEQA) and would demand an amount of water equivalent or greater than the amount of water by a 500-dwelling unit project. This Plan will also be the source document for water demand projections and water supply availability. Lastly, this Plan will provide guidance and direction on development of new local supplies and implementation of water conservation programs to meet the requirements of the Water Conservation Act.

## 10.7 Amending an Adopted UWMP

If PID makes any further amendments~~s~~ to its 2020 UWMP or the Water Shortage Contingency Plan contained therein, copies of amendments or changes to the plans will be submitted to DWR, the California State Library, and any city or county within which the supplier provides water supplies within 30 days after adoption. This process will be followed for the current Amended 2020 UWMP.

## 10.8 California Water Code Requirements

Demonstration of compliance with all applicable requirements of the California Water Code pertaining to Urban Water Management Plan and Water Shortage Contingency Plan is provided in Appendix M. Appendix M was developed based on the UWMP Checklist provided in the Guidebook and is organized by subject.

# Appendix A – Notifications Letters

Amended

PARADISE IRRIGATION DISTRICT
6332 Clark Road * Paradise, California 95969 * Phone 530-877-4971 * Fax 530-876-0483

March 29, 2021

Tavis Beynon, Interim District Manager
California Water Service
2222 Dr. Martin Luther King Jr. Parkway
Chico, CA 95928

RE: Paradise Irrigation District 2020 Urban Water Management Plan

Dear Mr. Tavis Beynon:

The Paradise Irrigation District (District) has begun preparing the 2020 Urban Water Management Plan, which must be completed by July 1, 2021. Pursuant to California Water Code Section 10642, we are writing to notify you that preparation is underway and to encourage your active input and involvement in the process.

Prior to District Board adoption of the plan a public hearing will be held, and we will notify you of the date, time, and location of the meeting. We will also make a draft of the 2020 Urban Water Management Plan available to your organization in advance of the public hearing.

Please direct any questions related to plan preparation and coordination to Water Works Engineers, LLC, Colleen Boak colleenb@wwengineers.com.

Sincerely,

Tom Lando
Interim District Manager
Paradise Irrigation District

PARADISE IRRIGATION DISTRICT

6332 Clark Road * Paradise, California 95969 * Phone 530-877-4971 * Fax 530-876-0483

March 29, 2021

Brendan Ottoboni, Public Works Director - Engineering
City of Chico Public Works Department
411 Main Street, 2nd Floor
Chico, CA 95928

RE: Paradise Irrigation District 2020 Urban Water Management Plan

Dear Mr. Brendan Ottoboni:

The Paradise Irrigation District (District) has begun preparing the 2020 Urban Water Management Plan, which must be completed by July 1, 2021. Pursuant to California Water Code Section 10642, we are writing to notify you that preparation is underway and to encourage your active input and involvement in the process.

Prior to District Board adoption of the plan a public hearing will be held, and we will notify you of the date, time, and location of the meeting. We will also make a draft of the 2020 Urban Water Management Plan available to your agency in advance of the public hearing.

Please direct any questions related to plan preparation and coordination to Water Works Engineers, LLC, Colleen Boak colleenb@wwengineers.com.

Sincerely,

Tom Lando
Interim District Manager
Paradise Irrigation District

PARADISE IRRIGATION DISTRICT
6332 Clark Road * Paradise, California 95969 * Phone 530-877-4971 * Fax 530-876-0483

March 29, 2021

City of Oroville Public Works Director
City of Oroville Public Works Department
1735 Montgomery Street
Oroville, CA 95965

RE: Paradise Irrigation District 2020 Urban Water Management Plan

Leo and Dawn

Dear Public Works Director:

The Paradise Irrigation District (District) has begun preparing the 2020 Urban Water Management Plan, which must be completed by July 1, 2021. Pursuant to California Water Code Section 10642, we are writing to notify you that preparation is underway and to encourage your active input and involvement in the process.

Prior to District Board adoption of the plan a public hearing will be held, and we will notify you of the date, time, and location of the meeting. We will also make a draft of the 2020 Urban Water Management Plan available to your agency in advance of the public hearing.

Please direct any questions related to plan preparation and coordination to Water Works Engineers, LLC, Colleen Boak colleenb@wwengineers.com.

Sincerely,

Tom

Tom Lando
Interim District Manager
Paradise Irrigation District

PARADISE IRRIGATION DISTRICT
6332 Clark Road * Paradise, California 95969 * Phone 530-877-4971 * Fax 530-876-0483

March 29, 2021

John O'Farrell, Superintendent
Del Oro Water Company
Drawer 5172
Chico, CA 95927-5172

RE: Paradise Irrigation District 2020 Urban Water Management Plan

Dear Mr. John O'Farrell:

The Paradise Irrigation District (District) has begun preparing the 2020 Urban Water Management Plan, which must be completed by July 1, 2021. Pursuant to California Water Code Section 10642, we are writing to notify you that preparation is underway and to encourage your active input and involvement in the process.

Prior to District Board adoption of the plan a public hearing will be held, and we will notify you of the date, time, and location of the meeting. We will also make a draft of the 2020 Urban Water Management Plan available to your agency in advance of the public hearing.

Please direct any questions related to plan preparation and coordination to Water Works Engineers, LLC, Colleen Boak colleenb@wwengineers.com.

Sincerely,

Tom Lando
Interim District Manager
Paradise Irrigation District

PARADISE IRRIGATION DISTRICT

6332 Clark Road * Paradise, California 95969 * Phone 530-877-4971 * Fax 530-876-0483

March 29, 2021

Dennis Ramirez, Chairman
Mechoopda Indian Tribe of Chico Rancheria
125 Mission Ranch Boulevard
Chico, CA 95926

RE: Paradise Irrigation District 2020 Urban Water Management Plan

Dear Mr. Dennis Ramirez:

The Paradise Irrigation District (District) has begun preparing the 2020 Urban Water Management Plan, which must be completed by July 1, 2021. Pursuant to California Water Code Section 10642, we are writing to notify you that preparation is underway and to encourage your active input and involvement in the process.

Prior to District Board adoption of the plan a public hearing will be held, and we will notify you of the date, time, and location of the meeting. We will also make a draft of the 2020 Urban Water Management Plan available to you in advance of the public hearing.

Please direct any questions related to plan preparation and coordination to Water Works Engineers, LLC, Colleen Boak colleenb@wwengineers.com.

Sincerely,

Tom Lando
Interim District Manager
Paradise Irrigation District

PARADISE IRRIGATION DISTRICT
6332 Clark Road * Paradise, California 95969 * Phone 530-877-4971 * Fax 530-876-0483

March 29, 2021

Monica Nolan, Executive Director
Paradise Ridge Chamber of Commerce
6161 Clark Road, Suite 1
Paradise, CA 95969

RE: Paradise Irrigation District 2020 Urban Water Management Plan

Dear Ms. Monica Nolan:

The Paradise Irrigation District (District) has begun preparing the 2020 Urban Water Management Plan, which must be completed by July 1, 2021. Pursuant to California Water Code Section 10642, we are writing to notify you that preparation is underway and to encourage your active input and involvement in the process.

Prior to District Board adoption of the plan a public hearing will be held, and we will notify you of the date, time, and location of the meeting. We will also make a draft of the 2020 Urban Water Management Plan available to your organization in advance of the public hearing.

Please direct any questions related to plan preparation and coordination to Water Works Engineers, LLC, Colleen Boak colleenb@wwengineers.com.

Sincerely,

Tom Lando
Interim District Manager
Paradise Irrigation District

PARADISE IRRIGATION DISTRICT

6332 Clark Road * Paradise, California 95969 * Phone 530-877-4971 * Fax 530-876-0483

March 29, 2021

Nicole Garroutte, Rebuild Paradise Chair
Rebuild Paradise
6607 Skyway, Suite B
Paradise, CA 95969

RE: Paradise Irrigation District 2020 Urban Water Management Plan

Dear Ms. Nicole Garroutte:

The Paradise Irrigation District (District) has begun preparing the 2020 Urban Water Management Plan, which must be completed by July 1, 2021. Pursuant to California Water Code Section 10642, we are writing to notify you that preparation is underway and to encourage your active input and involvement in the process.

Prior to District Board adoption of the plan a public hearing will be held, and we will notify you of the date, time, and location of the meeting. We will also make a draft of the 2020 Urban Water Management Plan available to your organization in advance of the public hearing.

Please direct any questions related to plan preparation and coordination to Water Works Engineers, LLC, Colleen Boak colleenb@wwengineers.com.

Sincerely,

Tom Lando
Interim District Manager
Paradise Irrigation District

PARADISE IRRIGATION DISTRICT

6332 Clark Road * Paradise, California 95969 * Phone 530-877-4971 * Fax 530-876-0483

March 29, 2021

Jason Morris, Battalion Chief
Cal Fire Station 81
767 Birch Street
Paradise, CA 95969

RE: Paradise Irrigation District 2020 Urban Water Management Plan

Dear Mr. Jason Morris:

The Paradise Irrigation District (District) has begun preparing the 2020 Urban Water Management Plan, which must be completed by July 1, 2021. Pursuant to California Water Code Section 10642, we are writing to notify you that preparation is underway and to encourage your active input and involvement in the process.

Prior to District Board adoption of the plan a public hearing will be held, and we will notify you of the date, time, and location of the meeting. We will also make a draft of the 2020 Urban Water Management Plan available to your agency in advance of the public hearing.

Please direct any questions related to plan preparation and coordination to Water Works Engineers, LLC, Colleen Boak colleenb@wwengineers.com.

Sincerely,

Tom Lando
Interim District Manager
Paradise Irrigation District

PARADISE IRRIGATION DISTRICT
6332 Clark Road * Paradise, California 95969 * Phone 530-877-4971 * Fax 530-876-0483

March 29, 2021

Paul Gosselin, Water and Resource Conservation Director
Butte County Water and Resource Conservation Department
308 Nelson Avenue
Oroville, CA 95965

RE: Paradise Irrigation District 2020 Urban Water Management Plan

Dear Mr. Paul Gosselin:

The Paradise Irrigation District (District) has begun preparing the 2020 Urban Water Management Plan, which must be completed by July 1, 2021. Pursuant to California Water Code Section 10642, we are writing to notify you that preparation is underway and to encourage your active input and involvement in the process.

Prior to District Board adoption of the plan a public hearing will be held, and we will notify you of the date, time, and location of the meeting. We will also make a draft of the 2020 Urban Water Management Plan available to your agency in advance of the public hearing.

Please direct any questions related to plan preparation and coordination to Water Works Engineers, LLC, Colleen Boak colleenb@wwengineers.com.

Sincerely,

Tom Lando
Interim District Manager
Paradise Irrigation District

PARADISE IRRIGATION DISTRICT

6332 Clark Road * Paradise, California 95969 * Phone 530-877-4971 * Fax 530-876-0483

March 29, 2021

Joshua Pack, Public Works Director
Butte County
7 County Center Drive
Oroville, CA 95965

RE: Paradise Irrigation District 2020 Urban Water Management Plan

Dear Mr. Joshua Pack:

The Paradise Irrigation District (District) has begun preparing the 2020 Urban Water Management Plan, which must be completed by July 1, 2021. Pursuant to California Water Code Section 10642, we are writing to notify you that preparation is underway and to encourage your active input and involvement in the process.

Prior to District Board adoption of the plan a public hearing will be held, and we will notify you of the date, time, and location of the meeting. We will also make a draft of the 2020 Urban Water Management Plan available to your agency in advance of the public hearing.

Please direct any questions related to plan preparation and coordination to Water Works Engineers, LLC, Colleen Boak colleenb@wwengineers.com.

Sincerely,

Tom Lando
Interim District Manager
Paradise Irrigation District

PARADISE IRRIGATION DISTRICT

6332 Clark Road * Paradise, California 95969 * Phone 530-877-4971 * Fax 530-876-0483

March 29, 2021

Kevin Phillips, Town Manager
Town of Paradise
5555 Skyway
Paradise, CA 95969

RE: Paradise Irrigation District 2020 Urban Water Management Plan

Dear Kevin:

The Paradise Irrigation District (District) has begun preparing the 2020 Urban Water Management Plan, which must be completed by July 1, 2021. Pursuant to California Water Code Section 10642, we are writing to notify you that preparation is underway and to encourage your active input and involvement in the process.

Prior to District Board adoption of the plan a public hearing will be held, and we will notify you of the date, time, and location of the meeting. We will also make a draft of the 2020 Urban Water Management Plan available to your agency in advance of the public hearing.

Please direct any questions related to plan preparation and coordination to Water Works Engineers, LLC, Colleen Boak colleenb@wwengineers.com.

Sincerely,

Tom Lando
Interim District Manager
Paradise Irrigation District

Paradise Irrigation District
6332 Clark Rd, Paradise, CA 95969 · 530-877-4971 · Fax: 530-876-0483 · www.pidwater.com

May 10, 2023

Marc Mattox, Interim Town Manager
Town of Paradise
5555 Skyway
Paradise, CA 95969

RE: Paradise Irrigation District 2020 Urban Water Management Plan Amendment

Dear Mr. Marc Mattox:

The Paradise Irrigation District (District) will be working on an Amendment to the 2020 Urban Water Management Plan. Pursuant to California Water Code Section 10642, we are writing to notify you that the amendment process is underway and to encourage your active input and involvement in the process.

Prior to District Board adoption of the plan a public hearing will be held, and information on the date, time, and location of the meeting will be made publicly available. We will also make a draft of the Amended 2020 Urban Water Management Plan available publicly in advance of the public hearing.

Please direct any questions related to plan preparation and coordination to Water Works Engineers, LLC, Colleen Boak colleenb@wwengineers.com.

Sincerely,

Tom Lando
District Manager
Paradise Irrigation District

Paradise Irrigation District
6332 Clark Rd, Paradise, CA 95969 · 530-877-4971 · Fax: 530-876-0483 · www.pidwater.com

May 10, 2023

Public Works Director - Engineering
City of Chico Public Works Department
411 Main Street, 2nd Floor
Chico, CA 95928

RE: Paradise Irrigation District 2020 Urban Water Management Plan Amendment

Dear Public Works Director:

The Paradise Irrigation District (District) will be working on an Amendment to the 2020 Urban Water Management Plan. Pursuant to California Water Code Section 10642, we are writing to notify you that the amendment process is underway and to encourage your active input and involvement in the process.

Prior to District Board adoption of the plan a public hearing will be held, and information on the date, time, and location of the meeting will be made publicly available. We will also make a draft of the Amended 2020 Urban Water Management Plan available publicly in advance of the public hearing.

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Sincerely,

Tom Lando
District Manager
Paradise Irrigation District

Paradise Irrigation District
6332 Clark Rd, Paradise, CA 95969 · 530-877-4971 · Fax: 530-876-0483 · www.pidwater.com

May 10, 2023

Dennis Ramirez, Chairman
Mechoopda Indian Tribe of Chico Rancheria
125 Mission Ranch Boulevard
Chico, CA 95926

RE: Paradise Irrigation District 2020 Urban Water Management Plan Amendment

Dear Mr. Dennis Ramirez:

The Paradise Irrigation District (District) will be working on an Amendment to the 2020 Urban Water Management Plan. Pursuant to California Water Code Section 10642, we are writing to notify you that the amendment process is underway and to encourage your active input and involvement in the process.

Prior to District Board adoption of the plan a public hearing will be held, and information on the date, time, and location of the meeting will be made publicly available. We will also make a draft of the Amended 2020 Urban Water Management Plan available publicly in advance of the public hearing.

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Sincerely,

Tom Lando
District Manager
Paradise Irrigation District

Paradise Irrigation District
6332 Clark Rd, Paradise, CA 95969 · 530-877-4971 · Fax: 530-876-0483 · www.pidwater.com

May 10, 2023

City of Oroville Public Works Director
City of Oroville Public Works Department
1735 Montgomery Street
Oroville, CA 95965

RE: Paradise Irrigation District 2020 Urban Water Management Plan Amendment

Dear Public Works Director:

The Paradise Irrigation District (District) will be working on an Amendment to the 2020 Urban Water Management Plan. Pursuant to California Water Code Section 10642, we are writing to notify you that the amendment process is underway and to encourage your active input and involvement in the process.

Prior to District Board adoption of the plan a public hearing will be held, and information on the date, time, and location of the meeting will be made publicly available. We will also make a draft of the Amended 2020 Urban Water Management Plan available publicly in advance of the public hearing.

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Sincerely,

Tom Lando
District Manager
Paradise Irrigation District

Paradise Irrigation District
6332 Clark Rd, Paradise, CA 95969 · 530-877-4971 · Fax: 530-876-0483 · www.pidwater.com

May 10, 2023

Evan Markey, District Manager
California Water Service
2222 Dr. Martin Luther King Jr. Parkway
Chico, CA 95928

RE: Paradise Irrigation District 2020 Urban Water Management Plan Amendment

Dear Mr. Evan Markey:

The Paradise Irrigation District (District) will be working on an Amendment to the 2020 Urban Water Management Plan. Pursuant to California Water Code Section 10642, we are writing to notify you that the amendment process is underway and to encourage your active input and involvement in the process.

Prior to District Board adoption of the plan a public hearing will be held, and information on the date, time, and location of the meeting will be made publicly available. We will also make a draft of the Amended 2020 Urban Water Management Plan available publicly in advance of the public hearing.

Please direct any questions related to plan preparation and coordination to Water Works Engineers, LLC, Colleen Boak colleenb@wwengineers.com.

Sincerely,

Tom Lando
District Manager
Paradise Irrigation District

Paradise Irrigation District
6332 Clark Rd, Paradise, CA 95969 · 530-877-4971 · Fax: 530-876-0483 · www.pidwater.com

May 10, 2023

Charles Brooks, Rebuild Paradise Chair
Rebuild Paradise
6607 Skyway, Suite B
Paradise, CA 95969

RE: Paradise Irrigation District 2020 Urban Water Management Plan Amendment

Dear Mr. Charles Brooks:

The Paradise Irrigation District (District) will be working on an Amendment to the 2020 Urban Water Management Plan. Pursuant to California Water Code Section 10642, we are writing to notify you that the amendment process is underway and to encourage your active input and involvement in the process.

Prior to District Board adoption of the plan a public hearing will be held, and information on the date, time, and location of the meeting will be made publicly available. We will also make a draft of the Amended 2020 Urban Water Management Plan available publicly in advance of the public hearing.

Please direct any questions related to plan preparation and coordination to Water Works Engineers, LLC, Colleen Boak colleenb@wwengineers.com.

Sincerely,

Tom Lando
District Manager
Paradise Irrigation District

Paradise Irrigation District
6332 Clark Rd, Paradise, CA 95969 · 530-877-4971 · Fax: 530-876-0483 · www.pidwater.com

May 10, 2023

Rick Manson, Battalion Chief
Cal Fire Station 81
767 Birch Street
Paradise, CA 95969

RE: Paradise Irrigation District 2020 Urban Water Management Plan Amendment

Dear Mr. Rick Manson:

The Paradise Irrigation District (District) will be working on an Amendment to the 2020 Urban Water Management Plan. Pursuant to California Water Code Section 10642, we are writing to notify you that the amendment process is underway and to encourage your active input and involvement in the process.

Prior to District Board adoption of the plan a public hearing will be held, and information on the date, time, and location of the meeting will be made publicly available. We will also make a draft of the Amendend 2020 Urban Water Management Plan available publicly in advance of the public hearing.

Please direct any questions related to plan preparation and coordination to Water Works Engineers, LLC, Colleen Boak colleenb@wwengineers.com.

Sincerely,

Tom Lando
District Manager
Paradise Irrigation District

Paradise Irrigation District
6332 Clark Rd, Paradise, CA 95969 · 530-877-4971 · Fax: 530-876-0483 · www.pidwater.com

May 10, 2023

Monica Nolan, Executive Director
Paradise Ridge Chamber of Commerce
6161 Clark Road, Suite 1
Paradise, CA 95969

RE: Paradise Irrigation District 2020 Urban Water Management Plan Amendment

Dear Ms. Monica Nolan:

The Paradise Irrigation District (District) will be working on an amendment to the 2020 Urban Water Management Plan. Pursuant to California Water Code Section 10642, we are writing to notify you that the amendment process is underway and to encourage your active input and involvement in the process.

Prior to District Board adoption of the plan a public hearing will be held, and information on the date, time, and location of the meeting will be made publicly available. We will also make a draft of the Amended 2020 Urban Water Management Plan available publicly in advance of the public hearing.

Please direct any questions related to plan preparation and coordination to Water Works Engineers, LLC, Colleen Boak colleenb@wwengineers.com.

Sincerely,

Tom Lando
District Manager
Paradise Irrigation District

Paradise Irrigation District
6332 Clark Rd, Paradise, CA 95969 · 530-877-4971 · Fax: 530-876-0483 · www.pidwater.com

May 10, 2023

John O'Farrell, Superintendent
Del Oro Water Company
Drawer 5172
Chico, CA 95927-5172

RE: Paradise Irrigation District 2020 Urban Water Management Plan Amendment

Dear Mr. John O'Farrell:

The Paradise Irrigation District (District) will be working on an Amendment to the 2020 Urban Water Management Plan. Pursuant to California Water Code Section 10642, we are writing to notify you that the amendment process is underway and to encourage your active input and involvement in the process.

Prior to District Board adoption of the plan a public hearing will be held, and information on the date, time, and location of the meeting will be made publicly available. We will also make a draft of the Amended 2020 Urban Water Management Plan available publicly in advance of the public hearing.

Please direct any questions related to plan preparation and coordination to Water Works Engineers, LLC, Colleen Boak colleenb@wwengineers.com.

Sincerely,

Tom Lando
District Manager
Paradise Irrigation District

Paradise Irrigation District
6332 Clark Rd, Paradise, CA 95969 · 530-877-4971 · Fax: 530-876-0483 · www.pidwater.com

May 10, 2023

Joshua Pack, Public Works Director
Butte County
7 County Center Drive
Oroville, CA 95965

RE: Paradise Irrigation District 2020 Urban Water Management Plan Amendment

Dear Mr. Joshua Pack:

The Paradise Irrigation District (District) will be working on an Amendment to the 2020 Urban Water Management Plan. Pursuant to California Water Code Section 10642, we are writing to notify you that the amendment process is underway and to encourage your active input and involvement in the process.

Prior to District Board adoption of the plan a public hearing will be held, and information on the date, time, and location of the meeting will be made publicly available. We will also make a draft of the amended 2020 Urban Water Management Plan available publicly in advance of the public hearing.

Please direct any questions related to plan preparation and coordination to Water Works Engineers, LLC, Colleen Boak colleenb@wwengineers.com.

Sincerely,

Tom Lando
District Manager
Paradise Irrigation District

Paradise Irrigation District
6332 Clark Rd, Paradise, CA 95969 · 530-877-4971 · Fax: 530-876-0483 · www.pidwater.com

May 10, 2023

Kamie Loeser, Water and Resource Conservation Director
Butte County Water and Resource Conservation Department
308 Nelson Avenue
Oroville, CA 95965

RE: Paradise Irrigation District 2020 Urban Water Management Plan Amendment

Dear Ms. Kamie Loeser:

The Paradise Irrigation District (District) will be working on an amendment to the 2020 Urban Water Management Plan. Pursuant to California Water Code Section 10642, we are writing to notify you that the amendment process is underway and to encourage your active input and involvement in the process.

Prior to District Board adoption of the plan a public hearing will be held, and information on the date, time, and location of the meeting will be made publicly available. We will also make a draft of the Amended 2020 Urban Water Management Plan available publicly in advance of the public hearing.

Please direct any questions related to plan preparation and coordination to Water Works Engineers, LLC, Colleen Boak colleenb@wwengineers.com.

Sincerely,

Tom Lando
District Manager
Paradise Irrigation District

# Appendix B – AWWA Water Loss Audits

No changes

# Appendix C – Cal Adapt's Extended Drought Tool

No changes

# Appendix D – 2015 SBX7-7 Verification Form

No changes

# Appendix E – Amended 2020 SBX7-7 Compliance Form

| **SB X7-7 Table 0: Units of Measure Used in 2020 UWMP*** *(select one from the drop down list)* |
|---|
| Acre Feet |
| **The unit of measure must be consistent throughout the UWMP, as reported in Submittal Table 2-3.* |
| NOTES: |

| SB X7-7 Table 2: Method for 2020 Population Estimate | |
|---|---|
| **Method Used to Determine 2020 Population** (may check more than one) | |
| ☐ | **1. Department of Finance** (DOF) or **American Community Survey** (ACS) |
| ☐ | **2. Persons-per-Connection Method** |
| ☑ | **3. DWR Population Tool** |
| ☐ | **4. Other** DWR recommends pre-review |
| NOTES: | |

| SB X7-7 Table 3: 2020 Service Area Population | |
|---|---|
| **2020 Compliance Year Population** | |
| **2020** | 8,955 |
| NOTES: | |

| SB X7-7 Table 4: 2020 Gross Water Use | | | | | | | |
|---|---|---|---|---|---|---|---|
| Compliance Year 2020 | 2020 Volume Into Distribution System *This column will remain blank until SB X7-7 Table 4-A is completed.* | 2020 Deductions | | | | | 2020 Gross Water Use |
| | | Exported Water * | Change in Dist. System Storage* (+/-) | Indirect Recycled Water *This column will remain blank until SB X7-7 Table 4-B is completed.* | Water Delivered for Agricultural Use* | Process Water *This column will remain blank until SB X7-7 Table 4-D is completed.* | |
| | 4,046 | 441 | - | - | - | - | **3,605** |

*** Units of measure (AF, MG , or CCF)** must remain consistent throughout the UWMP, as reported in SB X7-7 Table 0 and Submittal Table 2-3.

NOTES: While an Agricultural Irrigation deduction was made in the calculation of the baseline, there was no agricultural water use in 2020 and the deduction is equal to zero.

**SB X7-7 Table 4-A: 2020 Volume Entering the Distribution System(s), Meter Error Adjustment**

Complete one table for each source.

| **Name of Source** | Little Butte Creek |
|---|---|
| **This water source is** *(check one)* **:** | |
| ☑ | The supplier's own water source |
| ☐ | A purchased or imported source |

| **Compliance Year 2020** | Volume Entering Distribution System [1] | Meter Error Adjustment [2] *Optional (+/-)* | Corrected Volume Entering Distribution System |
|---|---|---|---|
| | 4,046 | - | 4,046 |

[1] ***Units of measure (AF, MG , or CCF)*** *must remain consistent throughout the UWMP, as reported in SB X7-7 Table 0 and Submittal Table 2-3.*

[2] ***Meter Error Adjustment*** *- See guidance in Methodology 1, Step 3 of Methodologies Document*

NOTES: All values are in AF.

**SB X7-7 Table 4-A: 2020 Volume Entering the Distribution System(s) Meter Error Adjustment**

Complete one table for each source.

| **Name of Source** | D Tank Well |
|---|---|
| **This water source is** *(check one)* **:** | |
| ☑ | The supplier's own water source |
| ☐ | A purchased or imported source |

| **Compliance Year 2020** | Volume Entering Distribution System [1] | Meter Error Adjustment [2] *Optional (+/-)* | Corrected Volume Entering Distribution System |
|---|---|---|---|
| | - | | 0 |

[1] ***Units of measure (AF, MG , or CCF)*** *must remain consistent throughout the UWMP, as reported in SB X7-7 Table 0 and Submittal Table 2-3.*

[2] ***Meter Error Adjustment*** *- See guidance in Methodology 1, Step 3 of Methodologies Document*

NOTES: The groundwater well was non-operational in 2020 and water production was equal to zero.

| SB X7-7 Table 5: 2020 Gallons Per Capita Per Day (GPCD) | | |
|---|---|---|
| **2020 Gross Water** *Fm SB X7-7 Table 4* | **2020 Population** *Fm SB X7-7 Table 3* | **2020 GPCD** |
| 3,605 | 8,955 | **359** |
| NOTES: | | |

| SB X7-7 Table 9: 2020 Compliance | | | | | | | |
|---|---|---|---|---|---|---|---|
| Actual 2020 GPCD[1] | Optional Adjustments to 2020 GPCD<br>Enter "0" if Adjustment Not Used<br>Extraordinary Events[1] | Weather Normalization[1] | Economic Adjustment[1] | TOTAL Adjustments[1] | Adjusted 2020 GPCD [1] *(Adjusted if applicable)* | 2020 Confirmed Target GPCD [1, 2] | **Did Supplier Achieve Targeted Reduction for 2020?** |
| 359 | 151 | - | - | 151 | 208 | 212 | **YES** |
| [1] *All values are reported in GPCD* | | | | | | | |
| [2] ***2020 Confirmed Target GPCD*** *is taken from the Supplier's SB X7-7 Verification Form Table SB X7-7, 7-F.* | | | | | | | |
| NOTES: An adjustment of 10 GPCD was made for increased institutional use due to the Camp Fire. An additional adjustment of 131 GPCD for increased system losses directy related to the Camp Fire and resulting damage was approved by DWR and applied. | | | | | | | |

# Appendix F – Water Rights Permits

No changes

# Appendix G - USGS Watershed Scale Response to Climate Change – Feather River Basin, California

No changes

# Appendix H – Petition to SWRCB for Water Right Permit 271 and 16040

No changes

# Appendix I – Water Shortage Contingency Plan

No changes

# Appendix J – Ordinance No. 2015-01

No changes

# Appendix K – Copy of Newspaper ~~Application~~ Advertisement for Public Outreach

No changes

# Appendix L – Urban Water Management Plan Adoption Resolution

Adoption of Amended 2020 Plan to be added to this Appendix once executed

# Appendix M – DWR Checklist

No changes

# PARADISE IRRIGATION DISTRICT

RESOLUTION NO. 2023-13

A RESOLUTION OF THE BOARD OF DIRECTORS OF
THE PARADISE IRRIGATION DISTRICT
ADOPTING AMENDMENT TO 2020 URBAN WATER MANAGEMENT PLAN
FOR PARADISE IRRIGATION DISTRICT

The Paradise Irrigation District (PID) does hereby resolve as follows:

WHEREAS, the California Legislature enacted Assembly Bill 797 (Water Code Section 10610 et seq., known as the Urban Water Management Planning Act) during the 1983-84 Regular Session, and as amended subsequently, which mandates that every supplier providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000 acre feet of water annually, prepare an Urban Water Management Plan (UWMP), the primary objective of which is to plan for the conservation and efficient use of water; and

WHEREAS, the District is an urban supplier of water providing water to more than 3,000 customers, and

WHEREAS, the Board of Directors, on June 21, 2021 adopted the Paradise Irrigation District 2020 UWMP update; and

WHEREAS, the reporting years for the 2020 UWMP are 2016-2020, with a planning horizon into 2045. The 2018 Camp Fire significantly impacted PID's ability to report on the required metrics of this UWMP. Components of the UWMP for which data were unavailable are stated throughout the report, and in the absence of data, reasonable estimations were made to report on all components of the UWMP; and

WHERAS, PID has subsequently amended its 2020 UWMP to incorporate DWR-approved exemptions for water losses experienced as a direct result of the 2018 Camp Fire disaster; and

WHEREAS, PID has prepared and circulated for public review the Amended 2020 Urban Water Management Plan, and a properly noticed public hearing regarding said amended Plan was held by the Board of Directors on September 20, 2023; and

WHEREAS, the Plan may be periodically reviewed at least once every five years, and the District may make any amendments or changes to its plan which are indicated by the review, or by requirements of the State of California Department of Water Resources; and

WHEREAS, the Plan must be formally adopted by the Board of Directors after public review and hearing, and filed with the California Department of Water Resources within thirty days of adoption; and

WHEREAS, the District desires to adopt said Amended 2020 UWMP and to file it as required by law.

NOW, THEREFORE, BE IT RESOLVED by the Paradise Irrigation District as follows:

1. The above recitals are true and correct and are adopted by the Board of Directors as findings;

2. The District Manager is hereby authorized and directed to file the Amended 2020 Urban Water Management Plan with the California Department of Water Resources;

3. The District Manager is hereby authorized to implement the Water Conservation Programs as set forth in the 2020 Urban Water Management Plan, which includes water shortage contingency analysis and recommendations to the Board of Directors regarding necessary procedures, rules, and regulations to carry out effective, equitable, and cost-conscious water conservation programs;

4. The District Manager may recommend to the Board of Directors additional procedures, rules, and regulations to carry out the terms and conditions of the 2020 Urban Water Management Plan.

PASSED AND ADOPTED this 20th day of September, 2023, by the following vote at a regular meeting of the Board of Directors:

AYES:
NOES:
ABSENT:
ABSTAIN:

PARADISE IRRIGATION DISTRICT

_____
Shelby Boston, President

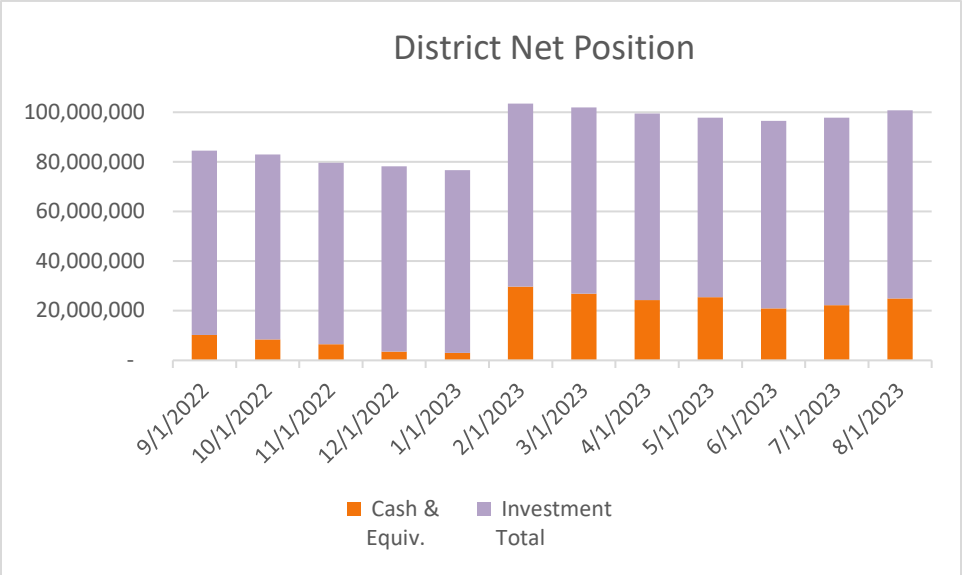
ATTEST:

_____
Georgeanna Borrayo, Secretary

Paradise Irrigation District
6332 Clark Rd, Paradise, CA 95969 · 530-877-4971 · Fax: 530-876-0483 · www.pidwater.com

# Treasurer's Report – August 2023

1. **Cash & Investments** – As of month end the District's net position was $100,777,655, up 3.0% from last month due to receipt of payment from insurance claim.
    a. Cash holdings at Tri Counties Bank: $1,903,656 @ 3.5%
    b. Cash holdings at CA CLASS: $22,876,417 @ 5.45%
    c. Cash holdings at LAIF: $2,593 @ 3.43%
    d. Cash holdings at Meeder Investments: $124,186 @ 5.21%.
    e. Securities holdings at Meeder Investments: 75,870,803 @ 3.85%




2. **Debt Service** – As of month end the District's outstanding debt was $2,880,099. This fiscal year, the District will pay $828,545 in principal and interest.
    a. 2017 Refinance Loan (Truist): $594,670 at 2.28%
    b. 2016 Refinance Loan (Capital One): $1,232,334 at 2.42%
    c. 2007 Magalia Bypass Loan (iBank): $1,053,095 at 1.00%

3. **Revenues** – As of month end the District's total income recognized YTD was $7.1M.
    a. Customer Status:

| | | |
|---|---|---|
| Active Customers | 5,039 | $2,659,383 Annualized Rev. |
| Sealed Customers | 4,245 | $1,120,171 Annualized Rev. |
| Disconnected | 1,468 | |

    b.

| Operating Income | YTD | BUDGET |
|---|---|---|
| Water Service, Fees, & Consumption | $ 329,196 | $ 5,310,232 |
| Installations and Custom Work | $ 11.456 | $ 66,000 |
| Total Operating Income | $ 340,378 | $ 5,376,232 |

3. Revenue (continued)

c. Investment Income (Cash Basis)

| | YTD | BUDGET |
|---|---|---|
| Interest Income | $ 581,459 | $ 2,600,000 |
| Realized Investment Gain/Loss | $ 199,489 | $ - 0 - |
| Total Investing Income | $ 780,949 | $ 2,600,000 |

- Expected rolling 12-month investment income is $2,115,257 based upon current holdings.
- Par Value of holdings is $78,701,207 from $74,500,000 initial investment.
- The current 30-day yield with CLASS fund is 5.4536%.
- The current yield with Tri Counties bank is 3.5%
- The current portfolio to maturity at Meeder has a yield of 3.85% with a weighted average of 2.42 years

d. Recovery / Misc. Income

| | YTD | BUDGET |
|---|---|---|
| Reimbursements | $ 35,500 | $ 273,000 |
| Miscellaneous & Other | $ 11,064,656 | $ 57,300,000 |
| Total Recovery / Misc. Income | $ 11,101,156 | $ |

4. **Expenses** –

| Operating Expenses by Department | YTD | BUDGET |
|---|---|---|
| Source of Supply & Treatment | $ 290,388 | $ 2,438,000 |
| T & D and Customer Service | $ 490,727 | $ 2,973,000 |
| Administration | $ 323,661 | $ 2,331,000 |
| Total Operating Expense | $ 1,104,776 | $ 7,742,000 |

5. **Capital & Recovery** –

Active projects include:

1) Reservoir B Tank Replacement
2) MISLR 2
3) MISLR 3
4) Zone A Pipeline
5) Magalia Dam
6) WTP Equalizer Tank

# QUICK SUMMARY DASHBOARD

**For the Period Ending 08/31/23**

| | | Fiscal YTD | Budget |
|---|---|---|---|
| **Operating Income** | | | |
| | Water Service, Fees, & Consumption | $ 329,196 | $ 5,310,232 |
| | Installations and Custom Work | $ 11,182 | $ 66,000 |
| | **Total Operating Income** | **$ 340,378** | **$ 5,376,232** |
| **Investment Income** | | | |
| | Interest Income | $ 581,459 | $ 2,600,000 |
| | Rental Income | $ 2,223 | $ - |
| | **Total Investment Income** | **$ 583,682** | **$ 2,600,000** |
| **Recovery / Misc. Income** | | | |
| | Grant Income | $ - | $ - |
| | Reimbursements | $ 36,500 | $ 273,000 |
| | Miscellaneous & Other | $ 11,064,656 | $ 57,300,000 |
| | **Total Recovery / Misc. Income** | **$ 11,101,156** | **$ 57,573,000** |
| | **Total Income** | **$ 12,025,216** | **$ 65,549,232** |
| Operating Expense | | | |
| | Source of Supply & Treatment | 290,388 | $ 2,438,000 |
| | Transmission & Distribution and Meter Shop | $ 490,727 | $ 2,973,000 |
| | Administration | $ 323,661 | $ 2,331,000 |
| | **Total Operating Expense** | **$ 1,104,776** | **$ 7,742,000** |
| Recovery Expense | | | |
| | Materials, Supplies, Contracts | $ 3,528,314 | $ - |
| | Outside Services | $ 776,437 | $ - |
| | **Total Recovery Expense** | **$ 4,304,751** | **$ -** |
| | **Total Expense** | **$ 5,409,528** | **$ 7,742,000** |
| | **Net Gain (Loss)** | $ 6,615,689 | $ 57,807,232 |
| | Cash & Equivalents | $ 24,906,852 | |
| | Investment Portfolio Cost | $ 75,870,803 | |
| | Portfolio Yield | 3.85% | |

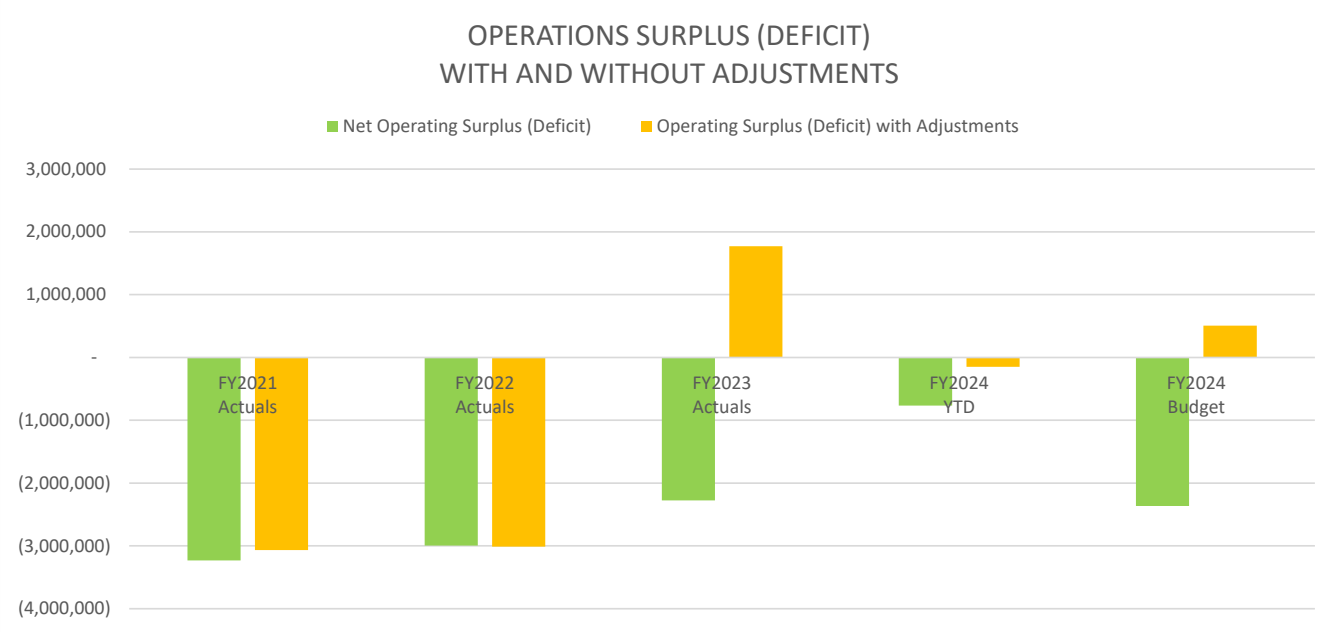
| Project | Paid to Date (est.) | Reimbursed to Date | Total Outstanding |
|---|---|---|---|
| Reservoir B | $ 8,670,801 | $ - | $ 8,670,801 |
| MISLR 2 | $ 27,915,546 | $ - | $ 27,915,546 |
| Zone A Pipeline | $ 2,118,584 | $ 841,390 | $ 1,277,194 |
| Magalia Dam | $ 942,234 | $ 519,445 | $ 422,789 |

# Paradise Irrigation District

Treasurer's Report August 31, 2023

Fiscal Year-to-Date Income & Expense Report

| | FY2021 Actuals | FY2022 Actuals | FY2023 Actuals | FY2024 YTD | FY2024 Budget |
|---|---|---|---|---|---|
| **District Operations** | | | | | |
| Operating Income | 3,804,279 | 4,664,521 | 4,953,280 | 340,378 | 5,376,232 |
| | | | | | |
| Source of Supply Total: | 17,969 | 251,189 | 55,310 | 14,688 | 250,000 |
| Water Treatment Total: | 1,238,662 | 1,318,893 | 1,723,304 | 275,700 | 2,188,000 |
| Transmission and Distribution Total: | 2,496,577 | 2,692,238 | 2,762,577 | 400,684 | 2,395,000 |
| Customer Service / Meter Shop Total: | 311,476 | 330,712 | 506,553 | 90,043 | 578,000 |
| Administration Total: | 2,972,166 | 3,066,015 | 2,182,676 | 323,661 | 2,331,000 |
| Operating Expense | 7,036,850 | 7,659,047 | 7,230,420 | 1,104,776 | 7,742,000 |
| | | | | | |
| **Net Operating Surplus (Deficit)** | **(3,232,571)** | **(2,994,526)** | **(2,277,140)** | **(764,399)** | **(2,365,768)** |
| | | | | | |
| Interest Income | (52,878) | (14,962) | 1,630,903 | 581,459 | 2,600,000 |
| Reimbursements | 219,507 | 0 | 2,419,635 | 36,500 | 273,000 |
| **Operating Surplus (Deficit) with Adjustments** | **(3,065,942)** | **(3,009,488)** | **1,773,398** | **(146,439)** | **507,232** |



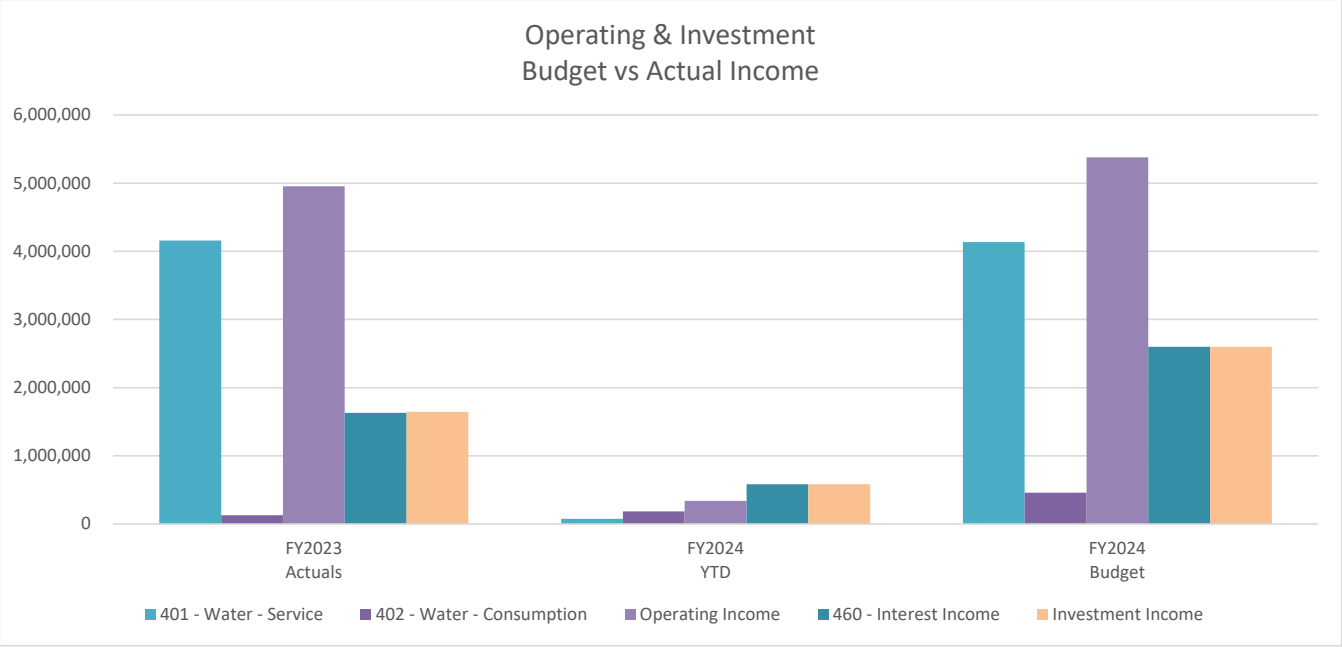
# Paradise Irrigation District

Treasurer's Report August 31, 2023

Fiscal Year-to-Date Income & Expense Report

| | | FY2021 Actuals | FY2022 Actuals | FY2023 Actuals | FY2024 YTD | FY2024 Budget |
|---|---|---|---|---|---|---|
| **Depart: 00 - Revenue** | | | | | | |
| | 400 - Taxes - PID Share | 317,000 | 288,006 | 184,088 | 0 | 330,000 |
| | 401 - Water - Service | 3,034,810 | 3,758,352 | 4,158,838 | 77,560 | 4,135,232 |
| | 402 - Water - Consumption | (44) | 0 | 128,971 | 183,205 | 460,000 |
| | 403 - Water - Fees & Adjustments | (2,408) | 30,005 | 147,384 | 34,271 | 160,000 |
| | 405 - Outside Water Sales | 126,556 | 214,169 | 209,756 | 34,159 | 225,000 |
| | 425 - Non-Recurring Services | 328,365 | 373,989 | 124,243 | 11,182 | 66,000 |
| | *Operating Income* | *3,804,279* | *4,664,521* | *4,953,280* | *340,378* | *5,376,232* |
| | 460 - Interest Income | (52,878) | (14,962) | 1,630,903 | 581,459 | 2,600,000 |
| | 465 - Rental Income | 21,416 | 22,652 | 14,429 | 2,223 | 0 |
| | 475 - Investment Gain/Loss* | 21,416 | 22,652 | -984,668 | 199,489 | 0 |
| | *Investment Income* | *(31,462)* | *7,690* | *1,645,332* | *583,682* | *2,600,000* |
| | 470 - Grant Income | 0 | 1,360 | 0 | 0 | 0 |
| | 490 - Reimbursements | 219,507 | 0 | 2,419,635 | 36,500 | 273,000 |
| | 495 - Grant Reimbursements | 5,443,911 | 12,880,241 | 692,302 | 0 | 45,300,000 |
| | 499 - Other | 9,766,341 | 120,739,779 | 1,333,161 | 11,064,656 | 12,000,000 |
| | *Recovery / Misc. Income* | *15,429,759* | *133,621,380* | *4,445,098* | *11,101,156* | *57,573,000* |
| **Total Revenue:** | | **19,223,992** | **138,316,243** | **10,059,043** | **12,224,705** | **65,549,232** |

* FYI only, not included in total income

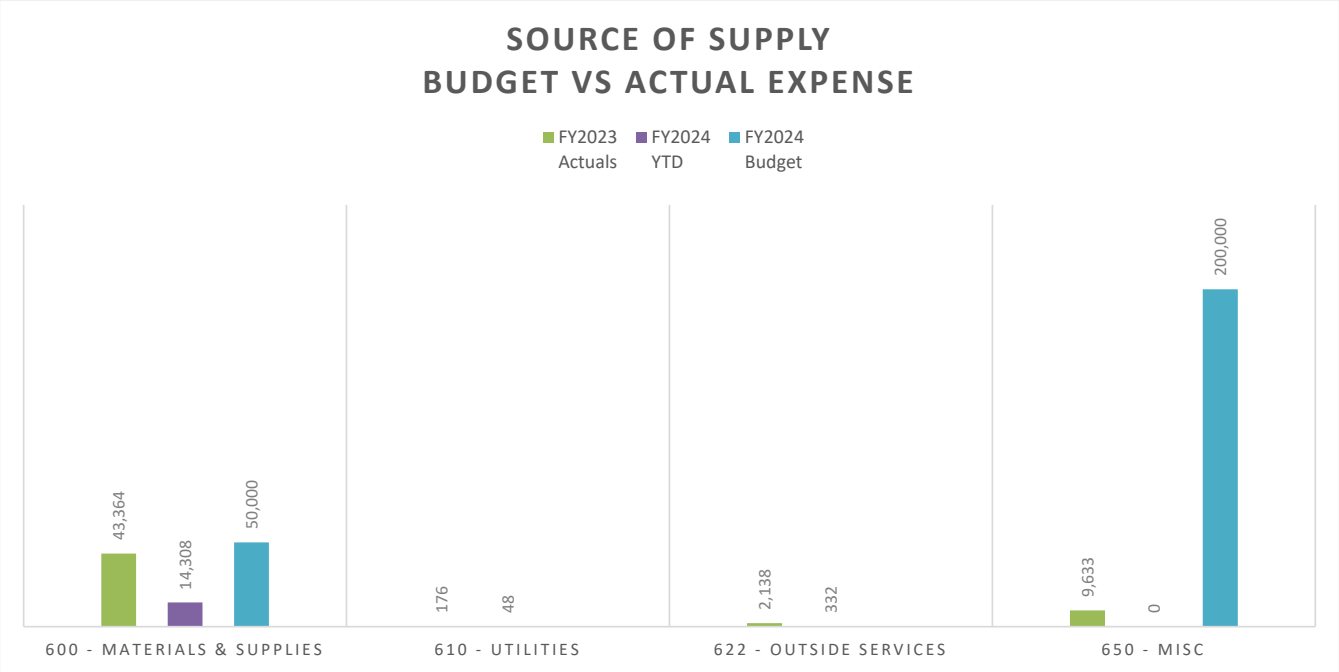


# Paradise Irrigation District

Treasurer's Report August 31, 2023

Fiscal Year-to-Date Income & Expense Report

| | | FY2021 Actuals | FY2022 Actuals | FY2023 Actuals | FY2024 YTD | FY2024 Budget |
|---|---|---|---|---|---|---|
| **Depart: 10 - Source of Supply** | | | | | | |
| | 600 - Materials & Supplies | 3,160 | 3,875 | 43,364 | 14,308 | 50,000 |
| | 610 - Utilities | 0 | 0 | 176 | 48 | |
| | 622 - Outside Services | 1,259 | 46,757 | 2,138 | 332 | |
| | 650 - Misc | 13,550 | 200,557 | 9,633 | 0 | 200,000 |
| **Total Expense:** | | **17,969** | **251,189** | **55,310** | **14,688** | **250,000** |

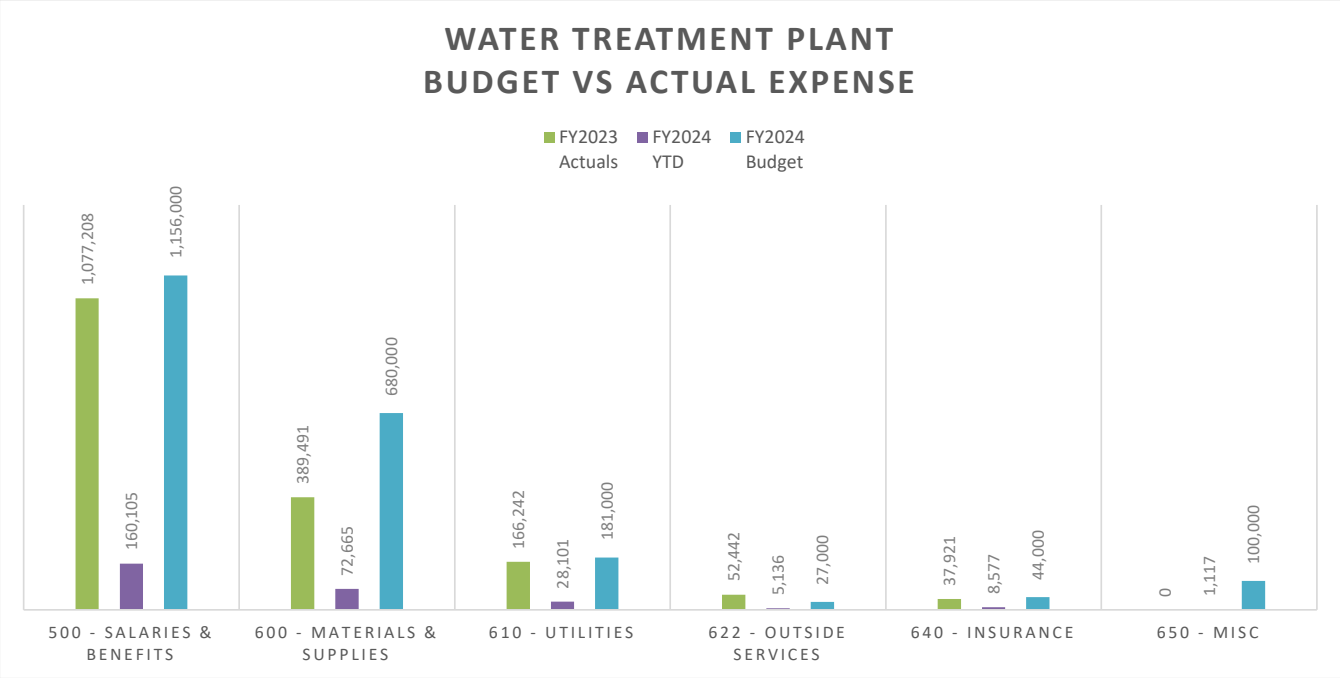


# Paradise Irrigation District

Treasurer's Report August 31, 2023

Fiscal Year-to-Date Income & Expense Report

| | | FY2021 Actuals | FY2022 Actuals | FY2023 Actuals | FY2024 YTD | FY2024 Budget |
|---|---|---|---|---|---|---|
| **Depart: 30 - Water Treatment** | | | | | | |
| | 500 - Salaries & Benefits | 982,404 | 1,012,944 | 1,077,208 | 160,105 | 1,156,000 |
| | 600 - Materials & Supplies | 201,222 | 250,351 | 389,491 | 72,665 | 680,000 |
| | 610 - Utilities | 514 | 5,127 | 166,242 | 28,101 | 181,000 |
| | 622 - Outside Services | 13,776 | 15,625 | 52,442 | 5,136 | 27,000 |
| | 640 - Insurance | 36,102 | 34,846 | 37,921 | 8,577 | 44,000 |
| | 650 - Misc | 4,644 | - | 0 | 1,117 | 100,000 |
| **Total Expense:** | | **1,238,662** | **1,318,893** | **1,723,304** | **275,700** | **2,188,000** |

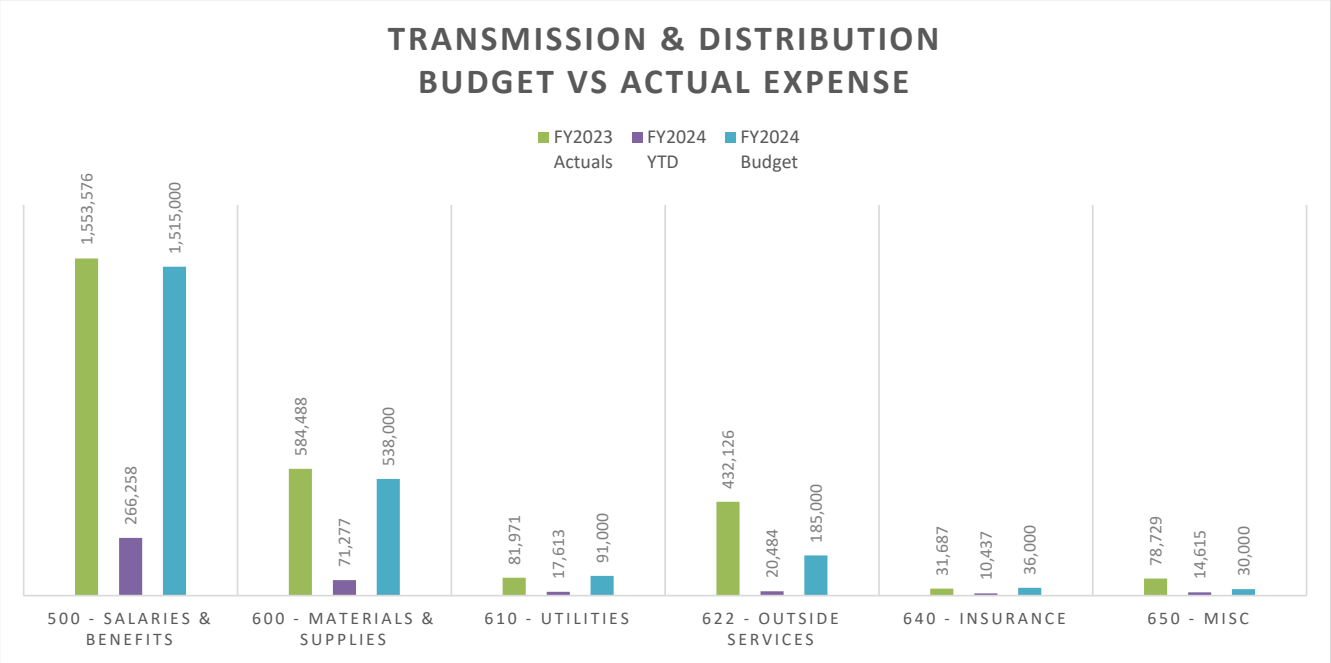


# Paradise Irrigation District

Treasurer's Report August 31, 2023

Fiscal Year-to-Date Income & Expense Report

| | | FY2021 Actuals | FY2022 Actuals | FY2023 Actuals | FY2024 YTD | FY2024 Budget |
|---|---|---|---|---|---|---|
| **Depart: 40 - Transmission & Distribution** | | | | | | |
| | 500 - Salaries & Benefits | 1,257,362 | 1,429,522 | 1,553,576 | 266,258 | 1,515,000 |
| | 600 - Materials & Supplies | 614,244 | 685,034 | 584,488 | 71,277 | 538,000 |
| | 610 - Utilities | 31,119 | 18,062 | 81,971 | 17,613 | 91,000 |
| | 622 - Outside Services | 513,181 | 493,029 | 432,126 | 20,484 | 185,000 |
| | 640 - Insurance | 29,279 | 28,261 | 31,687 | 10,437 | 36,000 |
| | 650 - Misc | 51,392 | 38,330 | 78,729 | 14,615 | 30,000 |
| **Total Expense:** | | **2,496,577** | **2,692,238** | **2,762,577** | **400,684** | **2,395,000** |

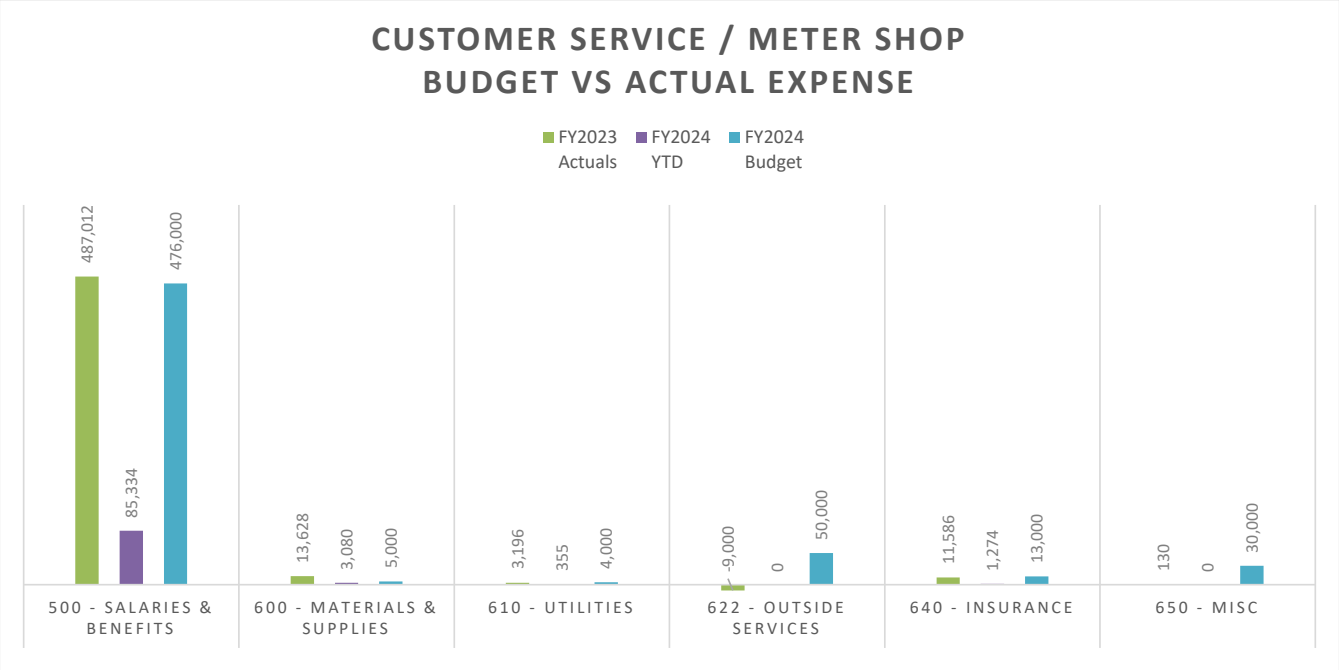


# Paradise Irrigation District

Treasurer's Report August 31, 2023

Fiscal Year-to-Date Income & Expense Report

| | | FY2021 Actuals | FY2022 Actuals | FY2023 Actuals | FY2024 YTD | FY2024 Budget |
|---|---|---|---|---|---|---|
| **Depart: 50 - Customer Service / Meter Shop** | | | | | | |
| | 500 - Salaries & Benefits | 290,613 | 295,789 | 487,012 | 85,334 | 476,000 |
| | 600 - Materials & Supplies | 692 | 8,901 | 13,628 | 3,080 | 5,000 |
| | 610 - Utilities | 0 | 3,000 | 3,196 | 355 | 4,000 |
| | 622 - Outside Services | 9,233 | 12,463 | -9,000 | 0 | 50,000 |
| | 640 - Insurance | 10,938 | 10,559 | 11,586 | 1,274 | 13,000 |
| | 650 - Misc | 0 | 0 | 130 | 0 | 30,000 |
| **Total Expense:** | | **311,476** | **330,712** | **506,553** | **90,043** | **578,000** |

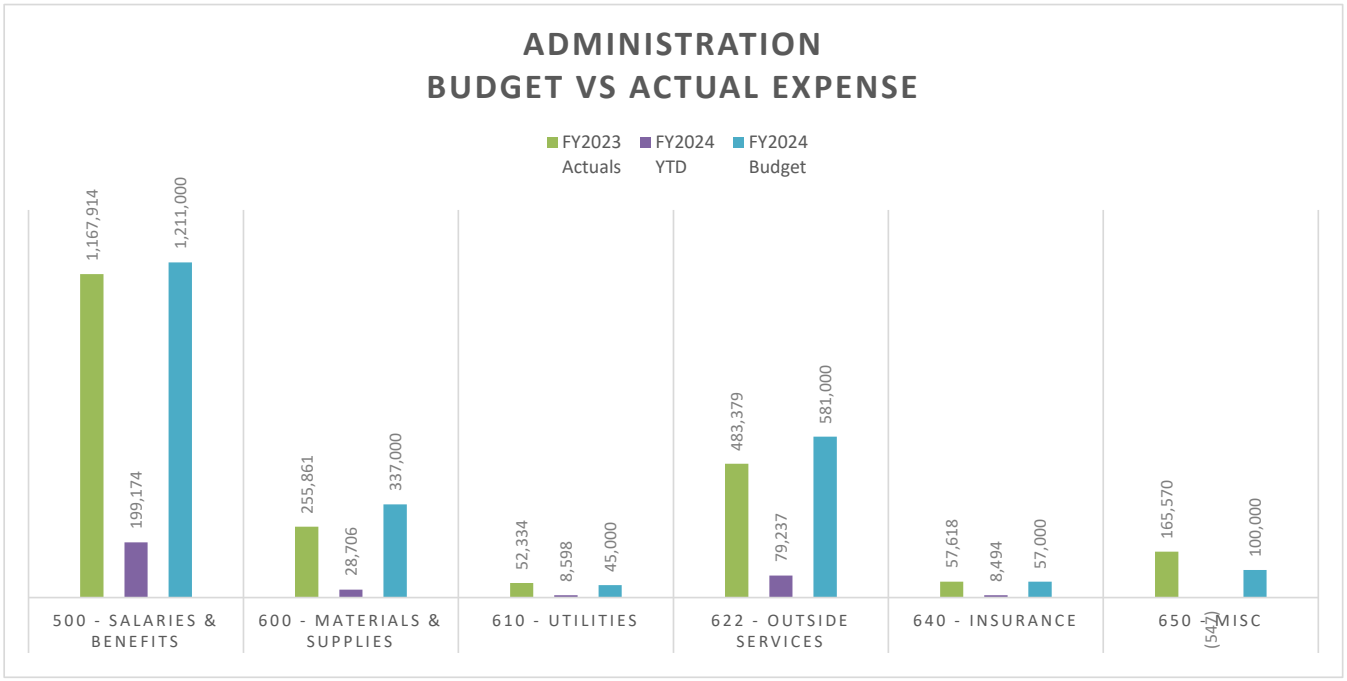


# Paradise Irrigation District

Treasurer's Report August 31, 2023

Fiscal Year-to-Date Income & Expense Report

| | | FY2021 Actuals | FY2022 Actuals | FY2023 Actuals | FY2024 YTD | FY2024 Budget |
|---|---|---|---|---|---|---|
| **Depart: 60 - Administration** | | | | | | |
| | 500 - Salaries & Benefits | 998,237 | 1,229,198 | 1,167,914 | 199,174 | 1,211,000 |
| | 600 - Materials & Supplies | 109,204 | 200,854 | 255,861 | 28,706 | 337,000 |
| | 610 - Utilities | 44,365 | 41,673 | 52,334 | 8,598 | 45,000 |
| | 622 - Outside Services | 1,656,841 | 1,414,867 | 483,379 | 79,237 | 581,000 |
| | 640 - Insurance | 56,970 | 44,979 | 57,618 | 8,494 | 57,000 |
| | 650 - Misc | 106,549 | 134,444 | 165,570 | (547) | 100,000 |
| **Total Expense:** | | **2,972,166** | **3,066,015** | **2,182,676** | **323,661** | **2,331,000** |

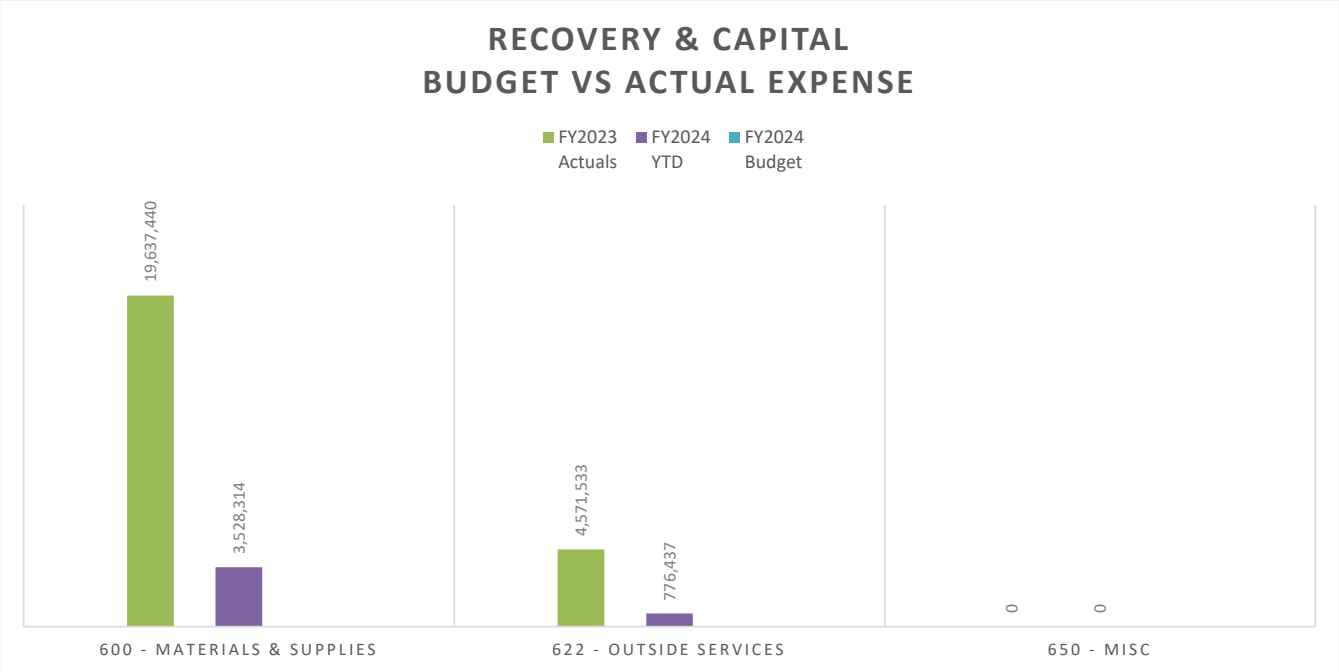


# Paradise Irrigation District

Treasurer's Report August 31, 2023

Fiscal Year-to-Date Income & Expense Report

| | | FY2021 Actuals | FY2022 Actuals | FY2023 Actuals | FY2024 YTD | FY2024 Budget |
|---|---|---|---|---|---|---|
| **Depart: 70 - Recovery & Capital** | | | | | | |
| | 600 - Materials & Supplies | 2,757,174 | 10,417,053 | 19,637,440 | 3,528,314 | |
| | 622 - Outside Services | 1,958,968 | 2,643,947 | 4,571,533 | 776,437 | |
| | 650 - Misc | | | 0 | 0 | |
| **Total Expense:** | | **4,716,142** | **13,061,000** | **24,208,973** | **4,304,751** | **0** |



# PARADISE IRRIGATION DISTRICT

## Expense Approval Report
## Percentage of Total Payments* by Account
## August 1 -31, 2023

*Displaying accounts greater than 0.50%

| Account Number | Account Name | Payments | % of Total |
|---|---|---|---|
| 01-70-601099 | Recovery & Capital Projects | 4,577,441.75 | 75.21% |
| 01-70-635020 | Engineering | 708,943.14 | 11.65% |
| 01-70-635099 | Miscellaneous Prof. Services | 463,341.67 | 7.61% |
| 01-122040 | Pre-Paid Insurance - Medical | 45,489.95 | 0.75% |
| 01-60-635030 | Legal | 44,573.36 | 0.73% |
| 01-210030 | FICA | 41,069.84 | 0.67% |
| 01-60-635099 | Miscellaneous Prof. Services | 38,149.08 | 0.63% |
| 01-210045 | Retirement | 36,164.10 | 0.59% |
| 01-60-699000 | Miscellaneous | 33,015.84 | 0.54% |
| | *Remainder* | *$98,178.81* | *1.61%* |
| **Grand Total** | | **$6,086,367.54** | |

# PARADISE IRRIGATION DISTRICT

## Expense Approval Report
## Percentage of Total Payments* by Vendor
## August 1 -31, 2023

*Displaying accounts greater than 1%

| Vendor | Payments | % of Total |
|---|---|---|
| RCI General Engineering | 2,318,268.18 | 38.09% |
| Myers and Sons Construction, LLC | 1,264,434.80 | 20.77% |
| Water Works Engineers | 710,059.64 | 11.67% |
| Sutton Enterprises | 685,055.09 | 11.26% |
| T&S Construction Co., Inc | 327,240.80 | 5.38% |
| CalOES | 222,608.36 | 3.66% |
| Internal Revenue Service | 70,295.55 | 1.15% |
| *Remainder* | *$488,405.12* | *8.02%* |
| **Grand Total** | **$6,086,367.54** | |

Paradise Irrigation District

# Expense Approval Report
By Vendor Name

Payment Dates 8/1/2023 - 8/31/2023

| Payment Date | Payment Number | Payable Number | Description (Item) | Amount |
|---|---|---|---|---|
| **Vendor: 01016 - Access Information Management** | | | | |
| 08/25/2023 | APA001163 | 10285541 | Bulk Shredding | 214.70 |
| 08/25/2023 | APA001163 | 10404382 | Bulk Shredding | 217.22 |
| | | | **Vendor 01016 - Access Information Management Total:** | **431.92** |
| **Vendor: 01021 - ACWA/JPIA** | | | | |
| 08/01/2023 | APA001112 | INV014255 | Cyber Liability Program Rene... | 3,373.00 |
| 08/01/2023 | APA001112 | INV014790 | Training | 1,695.00 |
| 08/08/2023 | 57984 | 700329 | Dental | 2,614.85 |
| 08/08/2023 | 57984 | 700329 | Life | 522.67 |
| 08/08/2023 | 57984 | 700329 | EAP | 96.72 |
| 08/08/2023 | 57984 | 700329 | Health | 30,541.99 |
| 08/08/2023 | 57984 | 700329 | Vision | 626.51 |
| | | | **Vendor 01021 - ACWA/JPIA Total:** | **39,470.74** |
| **Vendor: 03213 - Adobe Systems** | | | | |
| 08/16/2023 | DFT0006443 | 2528067478 | SOFTWARE | 29.99 |
| | | | **Vendor 03213 - Adobe Systems Total:** | **29.99** |
| **Vendor: 03185 - Advanced Document Concepts For Business** | | | | |
| 08/08/2023 | APA001127 | INV94535 | Office Equipment maintenance | 461.89 |
| 08/25/2023 | APA001164 | INV105902 | Equipment maintenance | 255.73 |
| 08/08/2023 | APA001127 | INV103606 | Equipment maintenance | 344.05 |
| | | | **Vendor 03185 - Advanced Document Concepts For Business Total:** | **1,061.67** |
| **Vendor: 02957 - Aflac** | | | | |
| 08/04/2023 | DFT0006340 | INV0006944 | Montly Invoices | 127.20 |
| 08/04/2023 | DFT0006341 | INV0006945 | Montly Aflac Invoice | 228.12 |
| 08/18/2023 | DFT0006413 | INV0006959 | Montly Invoices | 127.20 |
| 08/18/2023 | DFT0006414 | INV0006960 | Montly Aflac Invoice | 228.12 |
| | | | **Vendor 02957 - Aflac Total:** | **710.64** |
| **Vendor: 03066 - Airgas USA, LLC** | | | | |
| 08/08/2023 | DFT0006356 | 5500661094 | Welding supplies | 742.85 |
| 08/11/2023 | DFT0006405 | 5501375984 | Welding supplies | 801.00 |
| | | | **Vendor 03066 - Airgas USA, LLC Total:** | **1,543.85** |
| **Vendor: 03211 - Amazon.com** | | | | |
| 08/01/2023 | DFT0006361 | 113-5538796-7963460 | Supplies | 129.38 |
| 08/03/2023 | DFT0006366 | 113-2064741-7509008 | Supplies | 22.61 |
| 08/03/2023 | DFT0006359 | 113-9979480-3409832 | Supplies | 69.26 |
| 08/04/2023 | DFT0006391 | 111-4100704-3661032 | Supplies | 59.84 |
| 08/04/2023 | DFT0006358 | 112-2882002-0592266 | Supplies | 123.12 |
| 08/07/2023 | DFT0006394 | 111-1293220-5406603 | Supplies | 24.13 |
| 08/07/2023 | DFT0006393 | 112-1318505-0528252 | Supplies | 19.38 |
| 08/07/2023 | DFT0006451 | 112-9325704-7118640 | Supplies | 15.54 |
| 08/08/2023 | DFT0006392 | 112-9277816-1612269 | Supplies | 21.52 |
| 08/14/2023 | DFT0006454 | 112-090 | Supplies | 3.29 |
| 08/14/2023 | DFT0006445 | 112-5419736-8129049 | Supplies | 40.95 |
| 08/15/2023 | DFT0006453 | 112-3503656-0614652 | SUPPLIES | 68.85 |
| 08/12/2023 | DFT0006450 | 111-4707887-7593830 | Supplies | 16.41 |
| 08/21/2023 | DFT0006456 | 113-4923102-7389036, 113-8... | Supplies | 354.16 |
| 08/23/2023 | DFT0006496 | 111-1399946-5697056 | Repair Parts | 2,192.66 |
| 08/23/2023 | DFT0006452 | 112-8165206-0186635 | Supplies | 699.29 |
| 08/24/2023 | DFT0006497 | 112-3275203-2110613 | Supplies | 42.56 |
| 08/29/2023 | DFT0006499 | 112-0443382-9652214 | Supplies | 9.69 |
| 08/29/2023 | DFT0006498 | 112-471808-7935411,112-54... | Supplies | 189.13 |
| | | | **Vendor 03211 - Amazon.com Total:** | **4,101.77** |

| Payment Date | Payment Number | Payable Number | Description (Item) | Amount |
|---|---|---|---|---|
| **Vendor: 03266 - Apple** | | | | |
| 08/14/2023 | DFT0006457 | 2023-08 | SOFTWARE | 0.99 |
| | | | **Vendor 03266 - Apple Total:** | **0.99** |
| **Vendor: 03090 - APTIM Environmental & Infrastructure LLC** | | | | |
| 08/25/2023 | APA001165 | 602754 | Recovery Mgmt | 17,389.67 |
| | | | **Vendor 03090 - APTIM Environmental & Infrastructure LLC Total:** | **17,389.67** |
| **Vendor: 01068 - Aramark Uniform Services** | | | | |
| 08/11/2023 | DFT0006390 | 5066333962 | Uniforms | 376.59 |
| 08/11/2023 | DFT0006390 | 5066333963 | Uniforms | 119.42 |
| 08/11/2023 | DFT0006390 | 5066339775 | Uniforms | 374.09 |
| 08/11/2023 | DFT0006390 | 5066339776 | Uniforms | 119.42 |
| 08/11/2023 | DFT0006390 | 5066345749 | Uniforms | 374.09 |
| 08/11/2023 | DFT0006390 | 5066345750 | Uniforms | 119.42 |
| 08/11/2023 | DFT0006390 | 5066351423 | Uniforms | 374.09 |
| 08/11/2023 | DFT0006390 | 5066351424 | Uniforms | 119.42 |
| | | | **Vendor 01068 - Aramark Uniform Services Total:** | **1,976.54** |
| **Vendor: 01074 - Asbury Enviromental Service** | | | | |
| 08/08/2023 | APA001128 | I500-00943170 | Used Oil Pick up | 100.00 |
| | | | **Vendor 01074 - Asbury Enviromental Service Total:** | **100.00** |
| **Vendor: 01085 - AT&T Mobility** | | | | |
| 08/01/2023 | DFT0006492 | 287327766925X07042023 | Firstnet final bill | 435.01 |
| 08/01/2023 | DFT0006492 | 287327766925X07042023 | Firstnet final bill | 870.02 |
| 08/01/2023 | DFT0006492 | 287327766925X07042023 | Firstnet final bill | 435.01 |
| | | | **Vendor 01085 - AT&T Mobility Total:** | **1,740.04** |
| **Vendor: 01082 - AT&T** | | | | |
| 08/08/2023 | APA001129 | 20246622 | Office telephones | 735.30 |
| | | | **Vendor 01082 - AT&T Total:** | **735.30** |
| **Vendor: 03303 - Barewood Inc** | | | | |
| 08/11/2023 | DFT0006395 | 7318-1 | Office Desks | 21,162.11 |
| | | | **Vendor 03303 - Barewood Inc Total:** | **21,162.11** |
| **Vendor: 02870 - Boot Barn, Inc** | | | | |
| 08/31/2023 | APA001184 | INV00284677 | Safety Boots | 1,213.70 |
| | | | **Vendor 02870 - Boot Barn, Inc Total:** | **1,213.70** |
| **Vendor: 01942 - Butte Co - Neal Rd Landfill** | | | | |
| 08/25/2023 | APA001166 | 20846 | Landfill fee | 15.58 |
| | | | **Vendor 01942 - Butte Co - Neal Rd Landfill Total:** | **15.58** |
| **Vendor: 01127 - Butte County Public Health Department** | | | | |
| 08/14/2023 | 57986 | FA0004887 | Permit | 975.00 |
| 08/14/2023 | 57986 | 524217 | Fees | 1,034.00 |
| | | | **Vendor 01127 - Butte County Public Health Department Total:** | **2,009.00** |
| **Vendor: 02975 - Butte LAFCO** | | | | |
| 08/25/2023 | APA001167 | CINV-1314 | LAFCO 2023-2024 | 4,196.94 |
| | | | **Vendor 02975 - Butte LAFCO Total:** | **4,196.94** |
| **Vendor: 03313 - CalOES** | | | | |
| 08/31/2023 | 58005 | LA-6250 | Recovery | 222,608.36 |
| | | | **Vendor 03313 - CalOES Total:** | **222,608.36** |
| **Vendor: 01266 - Cedar Creek Publishing** | | | | |
| 08/14/2023 | APA001147 | 230807_P1 | Community Relations | 1,823.36 |
| 08/14/2023 | APA001147 | 230807_P1 | Wise Water Usage | 23.75 |
| | | | **Vendor 01266 - Cedar Creek Publishing Total:** | **1,847.11** |
| **Vendor: 01585 - Chemtrade Chemicals** | | | | |
| 08/01/2023 | APA001113 | 93568947 | Aluminum Sulfate | 6,586.72 |
| | | | **Vendor 01585 - Chemtrade Chemicals Total:** | **6,586.72** |
| **Vendor: 03194 - Cintas Corporation** | | | | |
| 08/08/2023 | DFT0006381 | 5169162908 | Supplies | 107.34 |
| 08/11/2023 | DFT0006404 | 5169162919 | Supplies | 397.10 |

| Payment Date | Payment Number | Payable Number | Description (Item) | Amount |
|---|---|---|---|---|
| 08/08/2023 | DFT0006380 | 5169162934 | Supplies | 46.28 |
| | | | **Vendor 03194 - Cintas Corporation Total:** | **550.72** |
| **Vendor: 01320 - Comcast** | | | | |
| 08/23/2023 | DFT0006459 | 2023-07 | WTP TV | 29.68 |
| 08/23/2023 | DFT0006459 | 2023-07 | WTP Internet | 207.70 |
| 08/23/2023 | DFT0006459 | 2023-07 | Shop TV | 79.46 |
| 08/24/2023 | DFT0006458 | 178271440 | Internet - Office | 851.42 |
| | | | **Vendor 01320 - Comcast Total:** | **1,168.26** |
| **Vendor: 01328 - Consolidated Electrical Dist** | | | | |
| 08/14/2023 | APA001148 | 1053-1049381 | electrical wire for shop lift | 428.57 |
| | | | **Vendor 01328 - Consolidated Electrical Dist Total:** | **428.57** |
| **Vendor: 03203 - Constant Contact** | | | | |
| 08/15/2023 | DFT0006461 | 1689498467 | Marketing / Email | 145.00 |
| | | | **Vendor 03203 - Constant Contact Total:** | **145.00** |
| **Vendor: 03311 - Dan's Electrical Supply** | | | | |
| 08/10/2023 | DFT0006462 | 66699V | Office Light Balast | 57.85 |
| | | | **Vendor 03311 - Dan's Electrical Supply Total:** | **57.85** |
| **Vendor: 01403 - De Novo Planning Group** | | | | |
| 08/25/2023 | APA001168 | 3953 | Water Rights-Phase \| CEQA ... | 22,260.35 |
| | | | **Vendor 01403 - De Novo Planning Group Total:** | **22,260.35** |
| **Vendor: 01439 - DMV** | | | | |
| 08/07/2023 | DFT0006396 | 2023-08 | Processing fees | 7.14 |
| 08/17/2023 | DFT0006463 | 2023-08(1) | Title Transfer | 570.18 |
| | | | **Vendor 01439 - DMV Total:** | **577.32** |
| **Vendor: 03308 - DoorDash** | | | | |
| 08/17/2023 | DFT0006464 | 2023-08 | Lunch and Learn | 365.02 |
| | | | **Vendor 03308 - DoorDash Total:** | **365.02** |
| **Vendor: 01474 - Eagles Security Systems** | | | | |
| 08/08/2023 | DFT0006373 | 1366762 | Security Services | 156.03 |
| 08/08/2023 | DFT0006373 | 1366763 | Security | 469.20 |
| | | | **Vendor 01474 - Eagles Security Systems Total:** | **625.23** |
| **Vendor: 02888 - Elecsys International Corporation** | | | | |
| 08/14/2023 | APA001149 | SIP-E180729 | Misc. supplies | 10.00 |
| | | | **Vendor 02888 - Elecsys International Corporation Total:** | **10.00** |
| **Vendor: 01496 - Employee Relations** | | | | |
| 08/25/2023 | APA001169 | 95553 | Pre-employment | 172.32 |
| | | | **Vendor 01496 - Employee Relations Total:** | **172.32** |
| **Vendor: 01480 - Employment Development Dept.** | | | | |
| 08/08/2023 | APA001130 | 2023-07 | Unemployment | 2,852.00 |
| 08/01/2023 | DFT0006386 | L1984649296 | Unemployment | 2,852.00 |
| 08/07/2023 | DFT0006348 | INV0006954 | State Income Tax Withholding | 5,599.57 |
| 08/07/2023 | DFT0006351 | INV0006957 | State Disability Withholding | 1,203.26 |
| 08/21/2023 | DFT0006421 | INV0006969 | State Income Tax Withholding | 5,708.99 |
| 08/21/2023 | DFT0006424 | INV0006972 | State Disability Withholding | 1,194.69 |
| 08/21/2023 | DFT0006429 | INV0006978 | State Income Tax Withholding | 116.64 |
| 08/21/2023 | DFT0006432 | INV0006981 | State Disability Withholding | 25.03 |
| | | | **Vendor 01480 - Employment Development Dept. Total:** | **19,552.18** |
| **Vendor: 01501 - Enloe Medical Center** | | | | |
| 08/08/2023 | DFT0006374 | 2023-07 | Physical | 206.00 |
| | | | **Vendor 01501 - Enloe Medical Center Total:** | **206.00** |
| **Vendor: 01527 - Ferguson Enterprises, Inc** | | | | |
| 08/08/2023 | APA001131 | 1797474 | 6 x 16 bury | 1,081.27 |
| 08/08/2023 | APA001131 | 1797474 | 6 x 48 bury | 1,621.64 |
| 08/08/2023 | APA001131 | 1797474 | 6 x 42 bury | 1,908.25 |
| 08/08/2023 | APA001131 | 1797474 | break away check valve | 14,169.66 |
| 08/08/2023 | APA001131 | 1797474 | 6 x 24 bury | 1,500.96 |

| Payment Date | Payment Number | Payable Number | Description (Item) | Amount |
|---|---|---|---|---|
| 08/08/2023 | APA001131 | 1791676-2 | Reducer - CI - 6' x 4' FL | 186.68 |
| | | | **Vendor 01527 - Ferguson Enterprises, Inc Total:** | **20,468.46** |
| **Vendor: 01528 - FGL Environmental** | | | | |
| 08/01/2023 | APA001114 | 374517A | Academy P/L | 28.00 |
| 08/01/2023 | APA001114 | 374622A | Routine Bacti Monitoring | 103.00 |
| 08/15/2023 | DFT0006408 | 374986A | Water Quality Monitoring | 61.00 |
| 08/15/2023 | DFT0006408 | 374989A | Routine Bacti Monitoring | 103.00 |
| 08/15/2023 | DFT0006408 | 375121A | Routine Bacti Monitoring | 103.00 |
| 08/15/2023 | DFT0006409 | 375658A | McClain Shut Down | 28.00 |
| 08/15/2023 | DFT0006410 | 375659A | Elliott Shut Down | 53.00 |
| 08/15/2023 | DFT0006408 | 375712A | Waste Water Monitoring | 31.00 |
| 08/15/2023 | DFT0006408 | 375603A | Routine Bacti Monitoring | 103.00 |
| 08/15/2023 | DFT0006408 | 375864A | Routine Bacti Monitoring | 103.00 |
| 08/15/2023 | DFT0006408 | 375017A | Waste Water Monitoring | 302.00 |
| 08/15/2023 | DFT0006408 | 375169A | Tractor Supply Shut Down | 28.00 |
| 08/15/2023 | DFT0006408 | 375608A | Water Quality Monitoring | 923.00 |
| | | | **Vendor 01528 - FGL Environmental Total:** | **1,969.00** |
| **Vendor: 02945 - Fiserv Solutions, LLC** | | | | |
| 08/14/2023 | APA001150 | 90255565 | Bank charges | 5.45 |
| | | | **Vendor 02945 - Fiserv Solutions, LLC Total:** | **5.45** |
| **Vendor: 01548 - Foothill Mill & Lumber Co.** | | | | |
| 08/01/2023 | APA001115 | 1152794 | Supplies | 69.39 |
| | | | **Vendor 01548 - Foothill Mill & Lumber Co. Total:** | **69.39** |
| **Vendor: 01688 - Home Depot** | | | | |
| 08/15/2023 | DFT0006469 | WJ38171996 | Supplies | 518.95 |
| 08/15/2023 | DFT0006469 | 2023-08 | SUPPLIES | 97.34 |
| 08/15/2023 | DFT0006469 | 2023-08 | Office Parts | 64.08 |
| | | | **Vendor 01688 - Home Depot Total:** | **680.37** |
| **Vendor: 01705 - Hunt & Sons, Inc.** | | | | |
| 08/11/2023 | DFT0006407 | 220778 | 170gals. unleaded gasoline | 768.57 |
| 08/11/2023 | DFT0006407 | 244866 | 155gals. unleaded gasoline | 686.22 |
| 08/11/2023 | DFT0006407 | 258923 | 165gals. dyed diesel | 609.66 |
| 08/11/2023 | DFT0006407 | 278770 | 260gals. unleaded gasoline | 1,236.58 |
| | | | **Vendor 01705 - Hunt & Sons, Inc. Total:** | **3,301.03** |
| **Vendor: 01713 - I.B.E.W. Local Union 1245** | | | | |
| 08/08/2023 | APA001132 | INV0006952 | Union Dues | -52.00 |
| 08/08/2023 | APA001132 | INV0006952 | Union Dues | 1,125.14 |
| 08/25/2023 | APA001170 | INV0006967 | Union Dues | 1,125.14 |
| 08/25/2023 | APA001170 | INV0006967 | Union Dues | -52.00 |
| 08/25/2023 | APA001170 | INV0006977 | Union Dues | 30.97 |
| 08/31/2023 | APA001185 | INV0006991 | Union Dues | 1,098.76 |
| 08/31/2023 | APA001185 | INV0006991 | Union Dues | -50.00 |
| | | | **Vendor 01713 - I.B.E.W. Local Union 1245 Total:** | **3,226.01** |
| **Vendor: 01716 - ICMA Retirement Trust-401** | | | | |
| 08/04/2023 | DFT0006343 | INV0006947 | Retirement - 401(a) Match | 2,787.59 |
| 08/18/2023 | DFT0006416 | INV0006962 | Retirement - 401(a) Match | 2,844.91 |
| 08/18/2023 | DFT0006426 | INV0006974 | Retirement - 401(a) Match | 54.10 |
| | | | **Vendor 01716 - ICMA Retirement Trust-401 Total:** | **5,686.60** |
| **Vendor: 01715 - ICMA Retirement Trust-457** | | | | |
| 08/04/2023 | DFT0006344 | INV0006948 | Retirement Trust - 457 | 2,787.59 |
| 08/04/2023 | DFT0006345 | INV0006949 | Deferred Comp 457 | 9,022.24 |
| 08/04/2023 | DFT0006346 | INV0006950 | Retirement Trust - 457 | 2,300.22 |
| 08/04/2023 | DFT0006347 | INV0006951 | Retirement Trust - 457 | 951.46 |
| 08/18/2023 | DFT0006417 | INV0006963 | Retirement Trust - 457 | 2,844.91 |
| 08/18/2023 | DFT0006418 | INV0006964 | Deferred Comp 457 | 9,194.22 |
| 08/18/2023 | DFT0006419 | INV0006965 | Retirement Trust - 457 | 2,209.01 |
| 08/18/2023 | DFT0006420 | INV0006966 | Retirement Trust - 457 | 951.46 |
| 08/18/2023 | DFT0006427 | INV0006975 | Retirement Trust - 457 | 54.10 |

| Payment Date | Payment Number | Payable Number | Description (Item) | Amount |
|---|---|---|---|---|
| 08/18/2023 | DFT0006428 | INV0006976 | Deferred Comp 457 | 162.29 |
| | | | **Vendor 01715 - ICMA Retirement Trust-457 Total:** | **30,477.50** |
| **Vendor: 01721 - Industrial Equipment** | | | | |
| 08/31/2023 | APA001186 | 59064 | roto nozzle | 318.56 |
| 08/31/2023 | APA001186 | 59082 | Equipment Replacement | 1,745.55 |
| 08/21/2023 | DFT0006436 | AN03715 | Refund for PO-2897 | -236.67 |
| | | | **Vendor 01721 - Industrial Equipment Total:** | **1,827.44** |
| **Vendor: 02807 - Infosend** | | | | |
| 08/25/2023 | APA001171 | 243751 | Postage & Mailings | 740.35 |
| 08/25/2023 | APA001171 | 244890 | Postage & Mailings | 4,853.25 |
| | | | **Vendor 02807 - Infosend Total:** | **5,593.60** |
| **Vendor: 01731 - Internal Revenue Service** | | | | |
| 08/07/2023 | DFT0006349 | INV0006955 | FICA Withholding | 16,529.30 |
| 08/07/2023 | DFT0006350 | INV0006956 | Fed Withholding | 14,327.83 |
| 08/07/2023 | DFT0006352 | INV0006958 | Medicare WIthholding | 3,865.74 |
| 08/21/2023 | DFT0006422 | INV0006970 | FICA Withholding | 16,411.22 |
| 08/21/2023 | DFT0006423 | INV0006971 | Fed Withholding | 14,611.82 |
| 08/21/2023 | DFT0006425 | INV0006973 | Medicare WIthholding | 3,838.10 |
| 08/21/2023 | DFT0006430 | INV0006979 | FICA Withholding | 344.84 |
| 08/21/2023 | DFT0006431 | INV0006980 | Fed Withholding | 286.06 |
| 08/21/2023 | DFT0006433 | INV0006982 | Medicare WIthholding | 80.64 |
| | | | **Vendor 01731 - Internal Revenue Service Total:** | **70,295.55** |
| **Vendor: 03057 - International Brotherhood of 137 TCWH** | | | | |
| 08/08/2023 | APA001133 | INV0006953 | Union Dues Teamsters | 409.40 |
| 08/25/2023 | APA001172 | INV0006968 | Union Dues Teamsters | 409.40 |
| 08/31/2023 | APA001187 | INV0006992 | Union Dues Teamsters | 409.40 |
| | | | **Vendor 03057 - International Brotherhood of 137 TCWH Total:** | **1,228.20** |
| **Vendor: 01729 - Interstate Batteries of the Rogue River** | | | | |
| 08/31/2023 | APA001188 | 92002736 | Repairs | 196.94 |
| | | | **Vendor 01729 - Interstate Batteries of the Rogue River Total:** | **196.94** |
| **Vendor: 01722 - isolved, Inc.** | | | | |
| 08/08/2023 | APA001134 | I129790672 | Plan admin. | 88.20 |
| 08/08/2023 | APA001134 | I129790672 | Plan admin. | 88.20 |
| 08/10/2023 | DFT0006412 | I129790672(1) | Plan admin | 88.20 |
| 08/24/2023 | DFT0006494 | I129790672 (return) | Service fee (refund) | -176.40 |
| | | | **Vendor 01722 - isolved, Inc. Total:** | **88.20** |
| **Vendor: 01749 - Jensen Precast** | | | | |
| 08/14/2023 | APA001151 | CD99203429 | concrete composite lid large | 2,579.54 |
| 08/14/2023 | APA001151 | CD99205291 | concrete composite lid small | 10,757.76 |
| | | | **Vendor 01749 - Jensen Precast Total:** | **13,337.30** |
| **Vendor: 01780 - Kimball Midwest** | | | | |
| 08/08/2023 | APA001135 | 101177936 | supplies | 478.45 |
| 08/14/2023 | APA001152 | 101260995 | Supplies | 744.98 |
| 08/14/2023 | APA001152 | 101261108 | Supplies | 383.95 |
| 08/31/2023 | APA001189 | 101309169 | 546738NW | 11.58 |
| 08/31/2023 | APA001189 | 101309424 | 546698NW | 541.06 |
| 08/31/2023 | APA001189 | 101310296 | 546718NW | 76.20 |
| | | | **Vendor 01780 - Kimball Midwest Total:** | **2,236.22** |
| **Vendor: 01790 - Knife River Construction** | | | | |
| 08/14/2023 | APA001153 | 290929 | Materials | 854.36 |
| | | | **Vendor 01790 - Knife River Construction Total:** | **854.36** |
| **Vendor: 01460 - LARRY ETHINGTON** | | | | |
| 08/25/2023 | APA001173 | 07-25-23-3 | DMV Screening | 138.50 |
| | | | **Vendor 01460 - LARRY ETHINGTON Total:** | **138.50** |
| **Vendor: 03270 - MAC Tools** | | | | |
| 08/07/2023 | DFT0006397 | 210421 | Tools | 271.51 |

| Payment Date | Payment Number | Payable Number | Description (Item) | Amount |
|---|---|---|---|---|
| 08/21/2023 | DFT0006500 | 210920 | Tools | 263.98 |
| | | | **Vendor 03270 - MAC Tools Total:** | **535.49** |
| **Vendor: 01905 - Minasian Law** | | | | |
| 08/01/2023 | APA001116 | 2023-06 | Legal | 29,521.14 |
| 08/25/2023 | APA001174 | 2023-07 | Legal Council | 15,052.22 |
| | | | **Vendor 01905 - Minasian Law Total:** | **44,573.36** |
| **Vendor: 03225 - Myers and Sons Construction, LLC** | | | | |
| 08/08/2023 | APA001136 | 348-12 | RES B Replacement 5% retent… | -44,251.60 |
| 08/08/2023 | APA001136 | 348-12 | RES B Replacement | 885,032.00 |
| 08/31/2023 | 58006 | 348-13 | Retainage | -22,297.60 |
| 08/31/2023 | 58006 | 348-13 | RES B Replacement Project | 445,952.00 |
| | | | **Vendor 03225 - Myers and Sons Construction, LLC Total:** | **1,264,434.80** |
| **Vendor: 03045 - N.C.G.T. SECURITY FUND** | | | | |
| 08/09/2023 | 1292 | 2023-08 | Health 2023-08 | 13,806.00 |
| | | | **Vendor 03045 - N.C.G.T. SECURITY FUND Total:** | **13,806.00** |
| **Vendor: 01742 - Nelson's Building Maintenance, Inc.** | | | | |
| 08/25/2023 | APA001175 | 778655 | Supplies | 380.62 |
| 08/31/2023 | APA001190 | 778854 | Supplies | 96.34 |
| | | | **Vendor 01742 - Nelson's Building Maintenance, Inc. Total:** | **476.96** |
| **Vendor: 01960 - Normac** | | | | |
| 08/08/2023 | DFT0006377 | 0011416420-001 | 2 x 3 brass nipple | 204.38 |
| 08/08/2023 | DFT0006377 | 0011416420-001 | 2" brass st ell | 301.84 |
| 08/08/2023 | DFT0006377 | 0011416420-001 | 2" brass ball balve | 530.74 |
| 08/08/2023 | DFT0006377 | 0011416420-001 | 2 x 24 brass nipple | 428.74 |
| 08/08/2023 | DFT0006377 | 0011416420-001 | 2 x 18 brass nipple | 406.61 |
| 08/08/2023 | DFT0006377 | 0011416420-001 | 2" brass union | 355.81 |
| 08/08/2023 | DFT0006377 | 0011416420-001 | 2" brass 90 | 197.00 |
| | | | **Vendor 01960 - Normac Total:** | **2,425.12** |
| **Vendor: 03249 - North Valley Arbor Managment, Inc** | | | | |
| 08/08/2023 | DFT0006378 | 31680 | Tree removal | 1,400.00 |
| 08/08/2023 | DFT0006378 | 31681 | Grounds Maint. Tree removal | 3,400.00 |
| 08/08/2023 | DFT0006378 | 31682 | Grounds Maint. Tree removal | 4,700.00 |
| 08/08/2023 | DFT0006378 | 31683 | Grounds Maint-Tree Removal | 7,725.00 |
| | | | **Vendor 03249 - North Valley Arbor Managment, Inc Total:** | **17,225.00** |
| **Vendor: 01980 - Northern Recycling & Waste Srvs** | | | | |
| 08/11/2023 | DFT0006398 | 2023-08(1) | Garbage | 20.00 |
| 08/11/2023 | DFT0006399 | 2023-08 | Garbage | -64.64 |
| 08/11/2023 | DFT0006399 | 2023-08 | Garbage | 35.66 |
| 08/11/2023 | DFT0006399 | 2023-08 | Garbage | 56.97 |
| 08/11/2023 | DFT0006399 | 2023-08 | Garbage | 180.52 |
| 08/11/2023 | DFT0006399 | 2023-08 | Garbage | 62.68 |
| | | | **Vendor 01980 - Northern Recycling & Waste Srvs Total:** | **291.19** |
| **Vendor: 01950 - Northstate Aggregate, Inc.** | | | | |
| 08/14/2023 | APA001154 | 160115 | Lt Base | 226.28 |
| 08/14/2023 | APA001154 | 144799 | Sand | 563.50 |
| 08/14/2023 | APA001154 | 145852 | Base Rock | 479.99 |
| | | | **Vendor 01950 - Northstate Aggregate, Inc. Total:** | **1,269.77** |
| **Vendor: 01985 - NTU Technologies, Inc.** | | | | |
| 08/14/2023 | APA001155 | 12464 | Zeta Floc 20 | 21,501.60 |
| | | | **Vendor 01985 - NTU Technologies, Inc. Total:** | **21,501.60** |
| **Vendor: 01995 - Office Depot** | | | | |
| 08/01/2023 | APA001117 | 320891867001 | Office supplies | 96.09 |
| | | | **Vendor 01995 - Office Depot Total:** | **96.09** |
| **Vendor: 02005 - Olin Corp** | | | | |
| 08/01/2023 | APA001118 | 6900342109-2 | Credit for Plant Chemicals | -11,300.00 |
| 08/01/2023 | APA001118 | 900257537 | Sodium Hypochlorite - Bleach | 11,110.22 |

| Payment Date | Payment Number | Payable Number | Description (Item) | Amount |
|---|---|---|---|---|
| 08/01/2023 | APA001118 | 900292817 | Sodium Hypochlorite - Bleach | 12,044.44 |
| | | | **Vendor 02005 - Olin Corp Total:** | **11,854.66** |
| **Vendor: 01538 - O'Reilly Auto Parts** | | | | |
| 08/08/2023 | APA001137 | 3534-491127 | Refund for Parts | -40.06 |
| 08/08/2023 | APA001137 | 3534-497930 | Repair parts | 75.21 |
| 08/08/2023 | APA001137 | 3534-498088 | Repair parts | 41.96 |
| 08/14/2023 | APA001156 | 3534-498833 | Repair parts | 61.05 |
| 08/14/2023 | APA001156 | 3534-499050 | Supplies | 116.31 |
| 08/14/2023 | APA001156 | 3534-499133 | Repair parts | 138.50 |
| 08/25/2023 | APA001176 | 3534-499605 | Supplies | 37.43 |
| 08/31/2023 | APA001191 | 3534-100709 | Supplies | 161.43 |
| | | | **Vendor 01538 - O'Reilly Auto Parts Total:** | **591.83** |
| **Vendor: 02030 - Pace Supply** | | | | |
| 08/08/2023 | DFT0006379 | 088735094 | 2" gate valve | 1,145.73 |
| 08/25/2023 | DFT0006476 | 198800386 | 6 x 12 steel nipple | 112.07 |
| 08/25/2023 | DFT0006476 | 088532397-4 | Wye 4 Way - Serv Brass - 2 x 1'... | 662.73 |
| | | | **Vendor 02030 - Pace Supply Total:** | **1,920.53** |
| **Vendor: 02081 - Pacific Gas & Electric Company** | | | | |
| 08/01/2023 | DFT0006400 | 2023-07 | Utilities | 18,327.66 |
| 08/31/2023 | DFT0006495 | 2023-08 (2 of 2) | Gas & Electric | 7,191.21 |
| 08/31/2023 | DFT0006439 | 2023-08(1) | Utilities | 7,191.21 |
| | | | **Vendor 02081 - Pacific Gas & Electric Company Total:** | **32,710.08** |
| **Vendor: 03048 - Plan B Professional Answering Service** | | | | |
| 08/08/2023 | APA001138 | 2023-08 | Answering service | 164.80 |
| | | | **Vendor 03048 - Plan B Professional Answering Service Total:** | **164.80** |
| **Vendor: 02098 - Pollard Water** | | | | |
| 08/25/2023 | APA001177 | 0244422 | ascorbic acid 26lbs | 482.72 |
| 08/25/2023 | APA001177 | 0244422 | dechlorinator | 1,125.99 |
| | | | **Vendor 02098 - Pollard Water Total:** | **1,608.71** |
| **Vendor: 03167 - RCI General Engineering** | | | | |
| 08/01/2023 | APA001119 | 2023-05 | MISLR 2 5% retention | -58,806.12 |
| 08/01/2023 | APA001119 | 2023-05 | MISLR2 Invoiced | 1,176,122.35 |
| 08/25/2023 | APA001178 | 2023-06 | MISLR 2 Retention | -63,208.00 |
| 08/25/2023 | APA001178 | 2023-06 | MISLR 2 | 1,264,159.95 |
| | | | **Vendor 03167 - RCI General Engineering Total:** | **2,318,268.18** |
| **Vendor: 01631 - Rental Guys** | | | | |
| 08/01/2023 | APA001120 | 945217-6 | Rental equipment | 83.06 |
| | | | **Vendor 01631 - Rental Guys Total:** | **83.06** |
| **Vendor: 03304 - Rick Crowder** | | | | |
| 08/14/2023 | 57987 | 2023-08 | Reimbursement | 300.00 |
| | | | **Vendor 03304 - Rick Crowder Total:** | **300.00** |
| **Vendor: 02057 - Riebes Auto Parts** | | | | |
| 08/15/2023 | DFT0006471 | 5356-133069 | Parts & Supplies | 59.33 |
| | | | **Vendor 02057 - Riebes Auto Parts Total:** | **59.33** |
| **Vendor: 02185 - Roberts & Brune Company** | | | | |
| 08/08/2023 | APA001139 | S995445 | Tap Sleeve 12' x 6 12.90-13.30 | 1,941.23 |
| | | | **Vendor 02185 - Roberts & Brune Company Total:** | **1,941.23** |
| **Vendor: 02211 - Sabre Backflow, LLC.** | | | | |
| 08/01/2023 | APA001121 | 3556 | test kit calibration | 136.37 |
| | | | **Vendor 02211 - Sabre Backflow, LLC. Total:** | **136.37** |
| **Vendor: 03306 - Save Mart** | | | | |
| 08/17/2023 | DFT0006472 | 2023-08 | Lunch and Learn | 83.15 |
| | | | **Vendor 03306 - Save Mart Total:** | **83.15** |
| **Vendor: 03153 - Slate Geotechnical Consultants, Inc.** | | | | |
| 08/25/2023 | APA001179 | 2114 | Magalia Dam Final Design | 12,095.84 |
| | | | **Vendor 03153 - Slate Geotechnical Consultants, Inc. Total:** | **12,095.84** |

| Payment Date | Payment Number | Payable Number | Description (Item) | Amount |
|---|---|---|---|---|
| **Vendor: 03273 - Snap-On Credit LLC** | | | | |
| 08/01/2023 | DFT0006490 | 2023-07 | Software | 99.00 |
| | | | **Vendor 03273 - Snap-On Credit LLC Total:** | **99.00** |
| **Vendor: 03210 - Spatial Networks, Inc.** | | | | |
| 08/01/2023 | DFT0006384 | 7E7049A6-0048 | Field software, Fulcrum | 714.00 |
| 08/09/2023 | DFT0006401 | 7E7049A6-0049 | Field software, Fulcrum | 30.51 |
| | | | **Vendor 03210 - Spatial Networks, Inc. Total:** | **744.51** |
| **Vendor: 02292 - Standard Insurance Company** | | | | |
| 08/08/2023 | 57985 | 2023-08 | ST Disability | 21.21 |
| 08/08/2023 | 57985 | 2023-08 | LT Disability | 137.84 |
| 08/08/2023 | 57985 | 2023-08 | ST Disability | 35.06 |
| 08/08/2023 | 57985 | 2023-08 | LT Disability | 227.85 |
| 08/08/2023 | 57985 | 2023-08 | LT Disability | 49.98 |
| 08/08/2023 | 57985 | 2023-08 | ST Disability | 7.69 |
| 08/08/2023 | 57985 | 2023-08 | LT Disability | 194.52 |
| 08/08/2023 | 57985 | 2023-08 | ST Disability | 29.93 |
| 08/25/2023 | APA001180 | 2023-09 | ST Disability | 22.22 |
| 08/25/2023 | APA001180 | 2023-09 | LT Disability | 144.40 |
| 08/25/2023 | APA001180 | 2023-09 | LT Disability | 235.65 |
| 08/25/2023 | APA001180 | 2023-09 | ST Disability | 36.25 |
| 08/25/2023 | APA001180 | 2023-09 | ST Disability | 9.04 |
| 08/25/2023 | APA001180 | 2023-09 | LT Disability | 58.76 |
| 08/25/2023 | APA001180 | 2023-09 | ST Disability | 30.07 |
| 08/25/2023 | APA001180 | 2023-09 | LT Disability | 195.45 |
| | | | **Vendor 02292 - Standard Insurance Company Total:** | **1,435.92** |
| **Vendor: 03061 - Sterling Health Services, Inc DBA** | | | | |
| 08/04/2023 | DFT0006342 | INV0006946 | HSA Contribution | 167.30 |
| 08/18/2023 | DFT0006415 | INV0006961 | HSA Contribution | 167.30 |
| | | | **Vendor 03061 - Sterling Health Services, Inc DBA Total:** | **334.60** |
| **Vendor: 03214 - Sutter Buttes Rubber Company LLC** | | | | |
| 08/07/2023 | DFT0006402 | 17490 | Supplies | 557.97 |
| | | | **Vendor 03214 - Sutter Buttes Rubber Company LLC Total:** | **557.97** |
| **Vendor: 03088 - Sutton Enterprises** | | | | |
| 08/31/2023 | 58007 | 2023-08 | MODS for MISLR 1 Project | 685,055.09 |
| | | | **Vendor 03088 - Sutton Enterprises Total:** | **685,055.09** |
| **Vendor: 03242 - SWALE Inc.** | | | | |
| 08/25/2023 | APA001181 | 278 | Consulting services PID MSR u… | 14,943.73 |
| | | | **Vendor 03242 - SWALE Inc. Total:** | **14,943.73** |
| **Vendor: 03284 - T&S Construction Co., Inc - Umpqua Bank** | | | | |
| 08/08/2023 | APA001141 | 2023-07 | Zone A Pump Station and Tran… | 17,223.20 |
| | | | **Vendor 03284 - T&S Construction Co., Inc - Umpqua Bank Total:** | **17,223.20** |
| **Vendor: 03283 - T&S Construction Co., Inc** | | | | |
| 08/08/2023 | APA001140 | 2023-07 | Zone A Pump Station and Tran… | 327,240.80 |
| | | | **Vendor 03283 - T&S Construction Co., Inc Total:** | **327,240.80** |
| **Vendor: 02362 - Thomas Ace Hardware** | | | | |
| 08/08/2023 | APA001142 | 210178 | Supplies | 23.26 |
| 08/08/2023 | APA001142 | 210201 | Supplies | 101.64 |
| 08/08/2023 | APA001142 | 210266 | Supplies | 25.82 |
| 08/08/2023 | APA001142 | 210267 | Supplies | 12.11 |
| 08/08/2023 | APA001142 | 210275 | Supplies | 209.42 |
| 08/08/2023 | APA001142 | 210283 | Supplies | 9.57 |
| 08/08/2023 | APA001142 | 210399 | Supplies | 172.81 |
| 08/08/2023 | APA001142 | 210493 | Supplies | 18.45 |
| 08/08/2023 | APA001142 | 210665 | Supplies | 1.80 |
| 08/08/2023 | APA001142 | 210707 | Supplies | 37.06 |
| 08/08/2023 | APA001142 | 210754 | Supplies | 23.58 |
| 08/08/2023 | APA001142 | 210818 | Supplies | 12.79 |

| Payment Date | Payment Number | Payable Number | Description (Item) | Amount |
|---|---|---|---|---|
| 08/14/2023 | APA001157 | 210842 | Supplies | 54.28 |
| 08/08/2023 | APA001142 | 210940 | Supplies | 21.79 |
| 08/08/2023 | APA001142 | 210984 | Supplies | 21.71 |
| 08/08/2023 | APA001142 | 211228 | Supplies | 1.13 |
| 08/08/2023 | APA001142 | 211238 | Supplies | 3.08 |
| 08/08/2023 | APA001142 | 211344 | Supplies | 20.66 |
| 08/08/2023 | APA001142 | 211354 | Supplies | 87.51 |
| 08/08/2023 | APA001142 | 211367 | Supplies | 15.13 |
| 08/08/2023 | APA001142 | 211429 | Supplies | 1.55 |
| 08/14/2023 | APA001157 | 211439 | Supplies | 8.12 |
| 08/08/2023 | APA001142 | 211474 | Supplies | 10.66 |
| 08/08/2023 | APA001142 | 211534 | Supplies | 46.74 |
| 08/08/2023 | APA001142 | 211548 | Supplies | 7.00 |
| 08/08/2023 | APA001142 | 211555 | Supplies | 5.27 |
| 08/08/2023 | APA001142 | 211565 | Supplies | 21.32 |
| 08/08/2023 | APA001142 | 211677 | Supplies | 21.30 |
| 08/14/2023 | APA001157 | 211684 | Supplies | 8.85 |
| 08/08/2023 | APA001142 | 211740 | Supplies | 8.91 |
| 08/08/2023 | APA001142 | 211782 | Supplies | 33.77 |
| 08/08/2023 | APA001142 | 211822 | Supplies | 12.36 |
| 08/08/2023 | APA001142 | 211909 | Supplies | 173.31 |
| 08/14/2023 | APA001157 | 212014 | Supplies | 19.57 |
| 08/14/2023 | APA001157 | 212043 | Supplies | 24.56 |
| 08/14/2023 | APA001157 | 212210 | Supplies | 100.26 |
| 08/14/2023 | APA001157 | 212214 | Supplies | 26.19 |
| 08/02/2023 | DFT0006403 | 107376 | Supplies | 309.80 |
| 08/04/2023 | DFT0006437 | 109336 | Refund for Supplies | -35.00 |
| 08/31/2023 | APA001192 | 820381 | Supplies | 93.17 |
| 08/23/2023 | DFT0006473 | 120998 | Office supplies | 29.07 |
| | | | **Vendor 02362 - Thomas Ace Hardware Total:** | **1,800.38** |
| **Vendor: 02363 - Thomas Hydraulic** | | | | |
| 08/02/2023 | DFT0006411 | APA001077 | Repairs: refund | -5.49 |
| | | | **Vendor 02363 - Thomas Hydraulic Total:** | **-5.49** |
| **Vendor: 02364 - Thrifty Rooter** | | | | |
| 08/01/2023 | APA001122 | 196563 | Maintenance | 270.39 |
| 08/08/2023 | APA001143 | 196682 | Maintenance | 265.00 |
| | | | **Vendor 02364 - Thrifty Rooter Total:** | **535.39** |
| **Vendor: 03013 - Total Compensation Systems, Inc** | | | | |
| 08/14/2023 | APA001158 | 12216 | Prof Services | 945.00 |
| | | | **Vendor 03013 - Total Compensation Systems, Inc Total:** | **945.00** |
| **Vendor: 03261 - Tractor Supply Company** | | | | |
| 08/01/2023 | DFT0006385 | 109117 | Supplies | 564.58 |
| | | | **Vendor 03261 - Tractor Supply Company Total:** | **564.58** |
| **Vendor: 02685 - Underground Service Alerts** | | | | |
| 08/11/2023 | DFT0006406 | 23USB159713 | Fees | 4,542.53 |
| 08/14/2023 | APA001159 | 2023159713 | Fees | 13,562.81 |
| | | | **Vendor 02685 - Underground Service Alerts Total:** | **18,105.34** |
| **Vendor: 02692 - United Rentals, Inc** | | | | |
| 08/01/2023 | APA001123 | 220468515-001 | Rental | 211.20 |
| 08/14/2023 | APA001160 | 222613355-001 | Supplies | 588.32 |
| 08/14/2023 | APA001160 | 222913740-001 | Repairs | 359.92 |
| 08/14/2023 | APA001160 | 222917762-001 | Repairs | 921.69 |
| | | | **Vendor 02692 - United Rentals, Inc Total:** | **2,081.13** |
| **Vendor: 02681 - Univar USA, Inc.** | | | | |
| 08/14/2023 | APA001161 | 51378421 | Sodium Bisulfite 25% | 1,632.74 |
| | | | **Vendor 02681 - Univar USA, Inc. Total:** | **1,632.74** |

| Payment Date | Payment Number | Payable Number | Description (Item) | Amount |
|---|---|---|---|---|
| **Vendor: 02824 - US Bank Corporate Payment System** | | | | |
| 08/29/2023 | DFT0006501 | CI046171 | MAINTENACE | 325.76 |
| | | | **Vendor 02824 - US Bank Corporate Payment System Total:** | **325.76** |
| **Vendor: 02686 - USA Blue Book** | | | | |
| 08/14/2023 | APA001162 | INV00075932 | Supplies | 1,019.22 |
| | | | **Vendor 02686 - USA Blue Book Total:** | **1,019.22** |
| **Vendor: 03305 - Valley Iron Inc** | | | | |
| 08/16/2023 | DFT0006475 | 487507,487532 | 3/16 x 10 x 20' HR strip | 158.11 |
| 08/16/2023 | DFT0006475 | 487507,487532 | 10 x 10 x 20' square tube | 759.64 |
| 08/16/2023 | DFT0006475 | 487507,487532 | 6" Sch 40 pipe 21' | 893.79 |
| 08/16/2023 | DFT0006475 | 487507,487532 | 4" Sch40 pipe 21' | 509.12 |
| | | | **Vendor 03305 - Valley Iron Inc Total:** | **2,320.66** |
| **Vendor: 02703 - Verizon Wireless** | | | | |
| 08/11/2023 | DFT0006389 | 9940155595 | Cell phone | 309.01 |
| 08/11/2023 | DFT0006389 | 9940155595 | Cell phone | 1,142.18 |
| 08/11/2023 | DFT0006389 | 9940155595 | Cell phone | 354.67 |
| 08/11/2023 | DFT0006389 | 9940155595 | Cell phone | 463.64 |
| | | | **Vendor 02703 - Verizon Wireless Total:** | **2,269.50** |
| **Vendor: 02712 - VistaNet inc.** | | | | |
| 08/01/2023 | APA001124 | 22327 | MSP Sophos Central | 731.25 |
| 08/01/2023 | APA001124 | 22328 | Network Monitoring | 629.00 |
| 08/08/2023 | APA001144 | 22442 | Emails not being delivered | 870.00 |
| 08/25/2023 | APA001182 | 22488 | Office Equipment Maintenance | 5,967.04 |
| 08/25/2023 | APA001182 | 22489 | Office Equipment Maintenance | 120.00 |
| 08/25/2023 | APA001182 | 22490 | Office Equipment Maintenance | 540.00 |
| 08/25/2023 | APA001182 | 22581 | MSP Sophos Central | 752.85 |
| 08/25/2023 | APA001182 | 22582 | Network Monitoring | 629.00 |
| 08/25/2023 | APA001182 | 22583 | Quarterly Perimeter Scan | 60.00 |
| 08/31/2023 | APA001193 | 22651 | Printer Issues | 60.00 |
| 08/24/2023 | DFT0006493 | 22203 (return) | Shortel (return) | -310.97 |
| | | | **Vendor 02712 - VistaNet inc. Total:** | **10,048.17** |
| **Vendor: 03002 - Water Works Engineers** | | | | |
| 08/25/2023 | APA001183 | 13701 | 22-047 PID GIS Valve Tagging ... | 4,543.54 |
| 08/08/2023 | APA001145 | 13796 | 17-041 Res B Replacement | 25,241.17 |
| 08/08/2023 | APA001145 | 13796 | 17-041 Res B Replacement | 37,699.53 |
| 08/08/2023 | APA001145 | 14089 | 17-041 Reservoir B Replacem... | 19,814.32 |
| 08/01/2023 | APA001125 | 14090 | 19-017 Disaster Recovery Ma... | 303,069.57 |
| 08/01/2023 | APA001125 | 14091 | 17-071 Backwash Waste NPD... | 4,420.90 |
| 08/08/2023 | APA001145 | 14099 | 21-046 CWS Flow Meter Repla... | 1,058.92 |
| 08/01/2023 | APA001125 | 14044 | 22-098 PID WTP Equalizer Tan... | 9,490.83 |
| 08/25/2023 | APA001183 | 14089-1 | 17-041 RES B Replacement Pro.. | 18,413.89 |
| 08/25/2023 | APA001183 | 14158 | 22-047 GIS Valve Tagging Proj... | 2,219.14 |
| 08/25/2023 | APA001183 | 14161 | 17-041 Res B Replacement | 28,462.49 |
| 08/25/2023 | APA001183 | 14162 | 17-071 Backwash Waste NPD... | 1,116.50 |
| 08/25/2023 | APA001183 | 14165 | 19-017 Disaster Recovery Ma... | 254,508.84 |
| | | | **Vendor 03002 - Water Works Engineers Total:** | **710,059.64** |
| **Vendor: 03134 - White Glove Cleaning Svc Inc** | | | | |
| 08/08/2023 | APA001146 | 76686 | Janitorial services | 495.00 |
| 08/08/2023 | APA001146 | 76684 | Janitorial services | 456.00 |
| 08/08/2023 | APA001146 | 76685 | Janitorial services | 550.00 |
| | | | **Vendor 03134 - White Glove Cleaning Svc Inc Total:** | **1,501.00** |
| **Vendor: 02778 - Wurth USA Inc.** | | | | |
| 08/01/2023 | APA001126 | 97775536 | Shop supplies | 344.97 |
| | | | **Vendor 02778 - Wurth USA Inc. Total:** | **344.97** |
| | | | **Grand Total:** | **6,086,367.54** |

## Mission Statement

*We are dedicated to producing and delivering a safe, dependable supply of quality water in an efficient, cost-effective manner with service that meets or exceeds the expectation of our community.*

**Our water. Our future.**
Paradise Irrigation District

# Strategic Plan Progress Report-09/23

no updates – Strategic planning scheduled for January 2024

## Customers
Objective: Provide Exceptional Customer Service

| Goal | Lead | By Date | Status | Complete |
|---|---|---|---|---|
| Create a Report on Updates to Customer Service Processes (for Board) | Mickey Rich | 6/30/2021 | | ✓ |
| Included in monthly staff reports | | | | |
| Developing 2023 'Voice of the Customer' Survey (based on the 'Voice of the Customer' Survey Conducted in 2022. | Mickey Rich | Updated 4/1/2023 | New survey in progress | ✓ |
| | | | | |
| Develop a 'Service Survey' to Be Used at the Completion of Service Delivery. 9/1/2022 added a 1-question post-call survey to our phone tree. | Dir. Sulik | 9/1/2021 | | ✓ |
| | | | | |
| Develop a Communication/Promotion Plan for 'Sharing Good News' | Dir. Sulik | 9/1/2021 | | ✓ |
| Cedar Creek has developed a "Moving Forward" campaign. Items of interest are included monthly in newsletters, social media and semi-annually in Chamber publications | | | | |

## Finance
Objective: Improve Financial Sustainability

| Goal | Lead | By Date | Status | Complete |
|---|---|---|---|---|
| Identify Opportunities for New Products and or Service Lines. | Tom Lando | 4/1/2022 | ongoing | |
| | | | | |
| To Establish a Plan to Create a Financial Reserve. | Tom Lando | 10/2021 | | ✓ |
| Capital improvement plan and financial analysis underway. Expected Completion by June 2022 | | | | |
| To Identify Grant/Funding Opportunities | Dir. Hinman | 9/1/2021 | | ongoing |
| Identify a Committed Grant Writer | Dir. Hinman | 9/1/2021 | | ✓ |
| CDBG-DR – Aptim via County<br>Infrastructure Bill – Aptim mapping out currently<br>HMGP – Aptim<br>CalFire – Butte County Fire Safe Council / Aptim<br>Water Board / Capital Improvements - Aptim | | | | |

## Operations
Objective: Enhance Operation Efficiencies

The Paradise Irrigation District will be the Gold Star Standard of business models. We will provide exceptional service to our customers and a quality product. Our financial independence will be the result of our innovative approach to the development of new products and or lines of service in tandem with precision financial and operational management. | We will prioritize our team members by investing in their work environment and providing opportunities for their future development and advancement. We will be dedicated and productive community partners, and as the regional People's Water District we will be leaders in sustainability, maintaining a net-neutral to net-positive impact on the environment.

| Goal | Lead | By Date | Status | Complete |
|---|---|---|---|---|
| Perform Employee Role Assessment | Tom Lando | 10/15/2021 | | ongoing |
| Ongoing assessment occurs anytime there is a vacancy.<br>The time spent with newly metered customers is keeping the customer service department busy. We have one temporary customer service rep and believe additional help is still needed.<br>Field crew has indicated the current employee roles are necessary through the end of 2024 or when PID, and utilities complete underground work. An assessment will be performed when construction work has been completed. | | | | |
| Initiate Project to Develop Organization Standard Operating Procedures (SOP's) and Standard Work Instructions (SWI's) | Tom Lando | 9/1/2021 | initiated | |
| Each department is developing SOPs for emergency and critical work. | | | | |

## People

Objective: Maximize Our Investment in People

| Goal | Lead | By Date | Status | Complete |
|---|---|---|---|---|
| Develop a Plan for a Phased Approach Formal Training Program | Mickey Rich | Updated 5/5/2023 | initiated | |
| • Staff has set up online training solution. Department managers will be offering relevant courses to employees<br>• Illness and Injury Program has been updated and additional training needs have been identified.<br>• Continue annual training program through ACWA/JPIA<br>• Staff Development Training offered<br>• Annual Safety Training / Required annual / bi-annual training<br>• We have created a safety coordinator team and the team along with Pete will be working on implementing a formal field training program 5/5/2023 | | | | |
| Develop Draft of a Plan for PID Career Tracks | Bowen/Boston | 5/5/2023 | initiated | |
| Staff is researching career track elements and best practices for learning organizations. While we don't anticipate job description changes, we will wait until the classification study concludes 5/5/2023. | | | | |
| Currently developing career skills sheets / awaiting final classification by CPS / HR | HR Firm/Mickey Rich | Updated 3/1/2023 | | |
| The board has entered into agreement with a firm 9/2022 – Work will begin after January 2023 | | | | |
| Employee Incentive Program | Mickey Rich | 4/1/2023 | NEW | |
| The District has an incentive program that allows for $50.00 gift cards to be awarded to employees going above and beyond. Starting August 2023 we hold monthly lunch and learn sessions with staff and have started a peer recognition program. | | | | |

*Organization Goal: Transform business to be the model all businesses want to replicate.*

# Customer Service Activity Report - August 2023

## Service Requests

| Service Types | Request Total |
|---|---|
| Account Management | 422 |
| Activate Water w/ Backflow | 16 |
| Backflow Maintenance | 37 |
| Construction Support | 5 |
| Disconnect | 1 |
| Field Customer Service | 90 |
| Field Maintenance | 15 |
| From Active to Ready-to-Serve | 51 |
| New Meter Order | 0 |
| No Water | 5 |
| Transfer Ownership | 101 |
| Water Quality | 8 |
| **Grand Total** | **751** |

***Increased*** *from 659 service requests in August 2022*

## Phone Activity

| Phone Activity | Aug-22 | Aug-23 | Trend |
|---|---|---|---|
| Average calls per day | 26.97 | 44.00 | Increased |
| Average abandoned per day | 2.00 | 1.52 | Decreased |
| Average time abandon | 1:23 min. | 2:39 min. | Increased |
| Average time to handle | 22 sec. | 52 sec. | Increased |

## Payments Processed

| Payment Method | Aug-22 | Aug-23 | Trend |
|---|---|---|---|
| Automated Phone System | 192 | 237 | Increased |
| Customer Service Team | 2280 | 3103 | Increased |
| Web Portal | 1422 | 1962 | Increased |
| **Total** | **3894** | **5302** | **Increased** |

# Customer Service Activities
# Aug-Sept , 2023

- **Phone Survey**
  - Starting September 1, 2022 phone in customers are invited to participate in a 1-question phone survey rating their service (1 through 5, with 5 being excellent).
  - **Cumulative Results:**

| **Rating** | ★★★★★ | ★★★★ | ★★★ | ★★ | ★ | **% Calls** |
|---|---|---|---|---|---|---|
| Sept 2022 | **77** | **3** | | **0** | **1** | **10 %** |
| Oct 2022 | **10** | **0** | | **0** | **1** | **1.4 %** |
| Nov 2022 | **14** | **0** | | **1** | **1** | **2.3 %** |
| Dec 2022 | **3** | **0** | | **0** | **1** | **0.7 %** |
| Jan 2023 | **12** | **1** | | **0** | **2** | **1.8 %** |
| Feb 2023 | **17** | **1** | | **0** | **3** | **2.9 %** |
| Mar 2023 | **10** | **0** | | **0** | **0** | **1.1 %** |
| Apr 2023 | **25** | **1** | **1** | **1** | **0** | **3.5 %** |
| May 2023 | **9** | **0** | **0** | **0** | **0** | **0.9%** |
| June 2023 | **15** | **0** | **1** | **1** | **0** | **1.8%** |
| July 2023 | **7** | **0** | **0** | **0** | **0** | **0.9%** |
| Aug 2023 | **13** | **0** | **0** | **0** | **1** | **1.49%** |

- **DropCountr Registrations**
  - We currently have 641 users signed up for DropCountr.
  - 41 new users in the last month
- **Billing**
  - Customers will see a smaller than normal July – September billing as the consumption represents 20 days less than normal. In July, customers were billed for an additional 20 days.
  - We have meetings this month with DropCountr to discuss needed improvements with the app including correcting the double-meter issue, allowing usage thresholds, and reporting usage in cubic feet to match the monthly water bill.
  - Metering data is corrected in Zenner and we will resume notification of meter installation and billing.

- Communications
  - Communication to August A-Zone customers affected by 36" pipe tie-in at B Reservoir was very thorough. Despite the delays, customer service and Tonya with Cedar Creek kept the community up to date on the changes.

From a customer: *"Just want to say thanks for the great communication. We knew this was coming and the updates along the way are superior compared to many service providers. "*

**STAFF REPORT**
**FIELD OPERATIONS**
**August 2023**

# TRANSMISSION & DISTRIBUTION

## DAILY OPERATIONS

- Our crews have been taking care of leaks, emergencies, and maintenance issues.
- 29 scheduled main line and service line leaks were repaired this month.
- Call Center received 134 after hour calls.
- Standby received 25 calls.
- 26 emergency calls due to contractors.
- 1408 Completed USA tickets.
- 88 Backflows were tested.
- There were 10 Infrastructure Damage Reports filed.

## SERVICE LINE REPLACEMENT / WATER REQUEST

- 11 IWS Backflow devices were installed.
- 35 Fire Flow tests were performed.
- 0 Service lines were replaced.

## CUSTOMER REIMBURSEMENT JOBS (by work order)

- 4 New Meter Estimates for various projects in town have been completed.

## OVERVIEW

- Continued efforts are being made with RCI and WWE to keep the M.I.S.L.R #2 and #3 project running smoothly and efficiently.
- We are continuing to work on our vehicle replacement program, including surplus of vehicles.
- Zone A Pipeline is going well, we are continuing to work with WWE, T&S, and Blaine on that project.
- Continued coordination with Meyers on the Reservoir B project.
- Beginning phases of MISLER #3 and the Mains Replacement Project.
- Coordinating with the Town of Paradise with their Paving Project.
- Woodsdale pipeline project.
- Teichert has completed the pipeline on Clark Rd.
- Distribution Operator new hire.
- Utility I job postings have opened.
- New tapping machine has arrived.

## MAINTENANCE PROJECTS

- PID has not had the maintenance position filled since 2018 so our current position has quite the back log of tasks to complete. Since filling this position Mark has been working on
    - Installing door stops on all doors at the Corp Yard and Office.
    - Replacing all irrigation that was burned around the Corp Yard and the Office.
    - Replacing lighting in buildings at both Corp Yard and Office.
    - Getting bids from numerous contractors to repair both rentals on Clark Rd.
    - Tree removal and vegetation management around the Corp Yard and Office.
    - Location and design of the electronic sign for the Office.
    - Working with rancho engineering to get a door and HVAC installed in the supply closet so this can be converted into office space.
    - New ceiling tile in the admin office.
- These are some of the tasks he has been working on. From here forward this section will be in list form.

## SUMMARY

The pipeline on Woodsdale has been started, the main is in, we had to pull off due to the B-Res tie in. This will be resumed and completed soon.

Teichert has been widening and sloping the hillside on HWY 191 “Clark Rd”. Due to the removal of topsoil covering our pipe they needed to lower a watermain in an effort to maintain minimum coverage. This work has been completed and in back in water.

I would like to congratulate Kurtis Brey for accepting the position of Distribution System Operator. This shift from Crew Leader to DSO will open vacant positions that will be filled in the near future.

Utility I job postings have closed. We received approximately 50 applications and interviews will take place in the first part of September.

The tapping machine that PID has had since the late 1980’s has broken beyond repair. I submitted an emergency request to purchase a new machine, which was approved. PID has received the new machine and will be putting it to use right away.

**STAFF REPORT**

**WATER TREATMENT PLANT**

**August 2023**

## WATER TREATMENT

- Production at the District's treatment plant for the month of August varied between 3.8 and 5.7 mgd, with the average day being 5.2 mgd.
    - Compared to:

| | pre-fire August 2018 | August 2020 | August 2021 | August 2022 |
|---|---|---|---|---|
| Low | 6.2 | 5.5 | 5.0 | 5.1 |
| High | 8.2 | 6.7 | 6.4 | 6.3 |
| Avg. | 7.6 | 5.9 | 5.6 | 5.1 |

- Completed required monthly reporting to Department of Drinking Water and Regional Water Control Board.
- Still waiting on the EPAs results from UCMR5 sampling (PFAS).

### Treatment Plant

- We have received a new plant production meter and are working with Badger Meter to get it tied in.
- The treatment plant has had 2 Operators in training so far, the operators on shift have spent time and shared their knowledge of how the treatment plant functions.
- T&S construction is beginning work for the pump station at the plant.
- I have reached out to our regulator, who is looking into the possibility of allowing swimming at Paradise Lake and what would be involved in making that happen.
- B-Tanks are now visible at the treatment plant SCADA
- We are working with our regulator on B-Tanks permitting
- We will be doing extra sampling for the NPDES permit to ensure a smooth acquisition of the next permit.
- Operators were well prepared and had A-Tank full for the B-Tanks tie-in, while A-zone was isolated, the tank had used 13.5' of water.

## MAGALIA/PARADISE DAMS

- Monthly monitoring of piezometers at Magalia and Paradise dams were performed.

## WATER QUALITY – DISTRIBUTION SYSTEM

- Routine Sampling - 4 Bacteriological samples are taken each week at locations throughout the Distribution system. They are analyzed for Total Coliforms, Fecal Coliform & E. Coli. These samples verify the potability of the water in the system.
- Ucmr5 sample for August complete
- Lead & copper letters to customers who participated have been mailed.

**August 2023, WATER QUALITY**

- Average daily production: 5.2 mgd
- Average effluent turbidity: 0.03 ntu
- Average raw water turbidity: 1.1 ntu

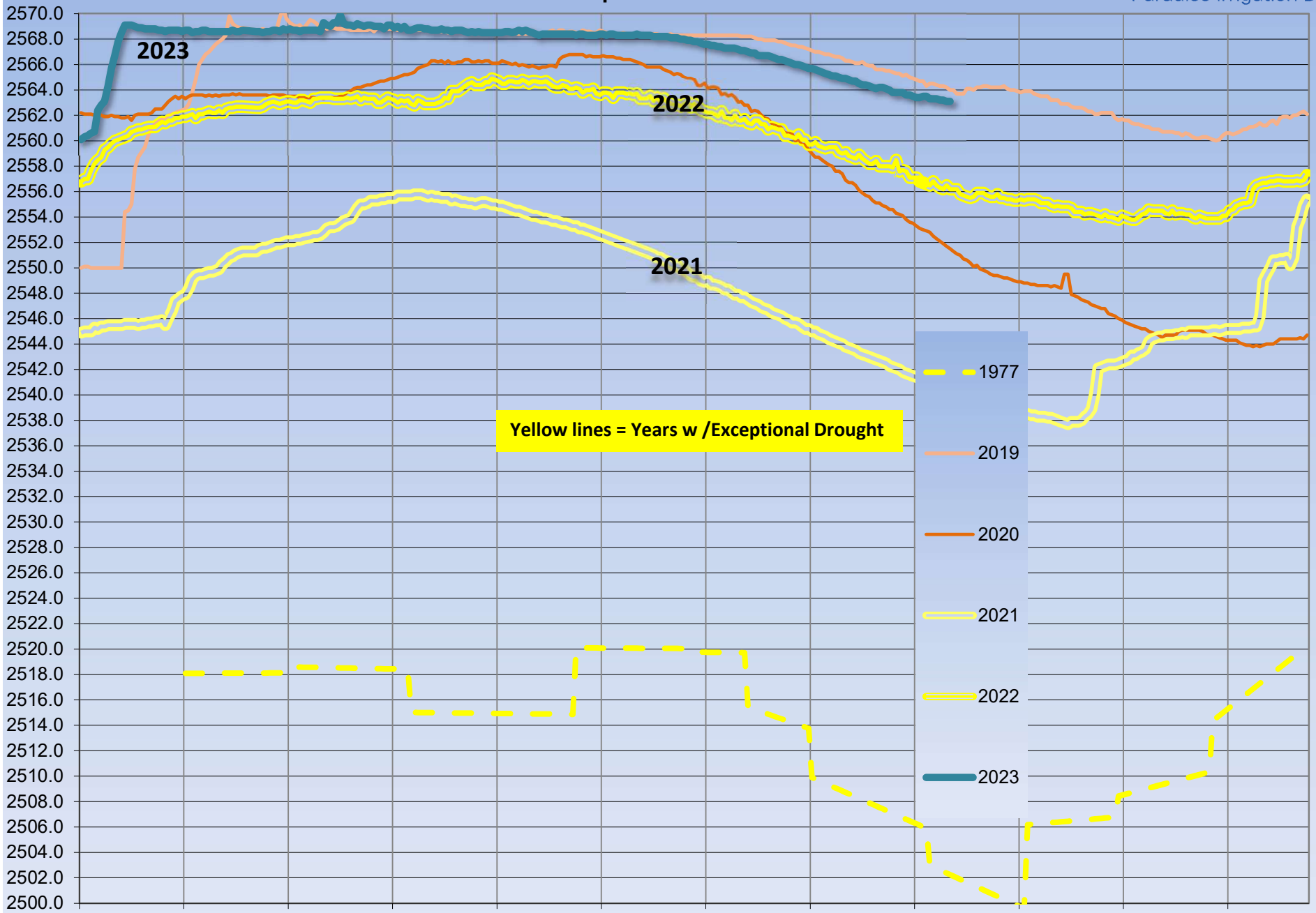
**Water Levels** (as of 8/31/2023)

- Magalia Reservoir 2199.4'
- Paradise Lake -4.5' -11.0' same day in 2022
- Percentage of Water in Storage 91%+ of Total Available
- Rainfall for 2022/2023 rainfall year:

| | Magalia Res. | Paradise Lake |
|---|---|---|
| October | 0.00" | 0.00" |
| November | 5.57" | 5.51" |
| December | 19.06" | 17.89" |
| January | 18.55" | 21.44" |
| February | 5.30" | 2.29" |
| March | 23.71" | 24.80" |
| April | 2.25" | 2.14" |
| May | 2.07" | 2.77" |
| June | 0.19" | 0.88" |
| July | 0.00" | 0.00" |
| August | 0.23" | 0.24" |
| September | | |
| Total for 2022/2023 Rain Year | 76.90" | 77.96" |
| Average Rainfall | 64.00" | 65.20" |

# Paradise Lake Elevation
Updated 09/12/2023
Spill = 2568.1

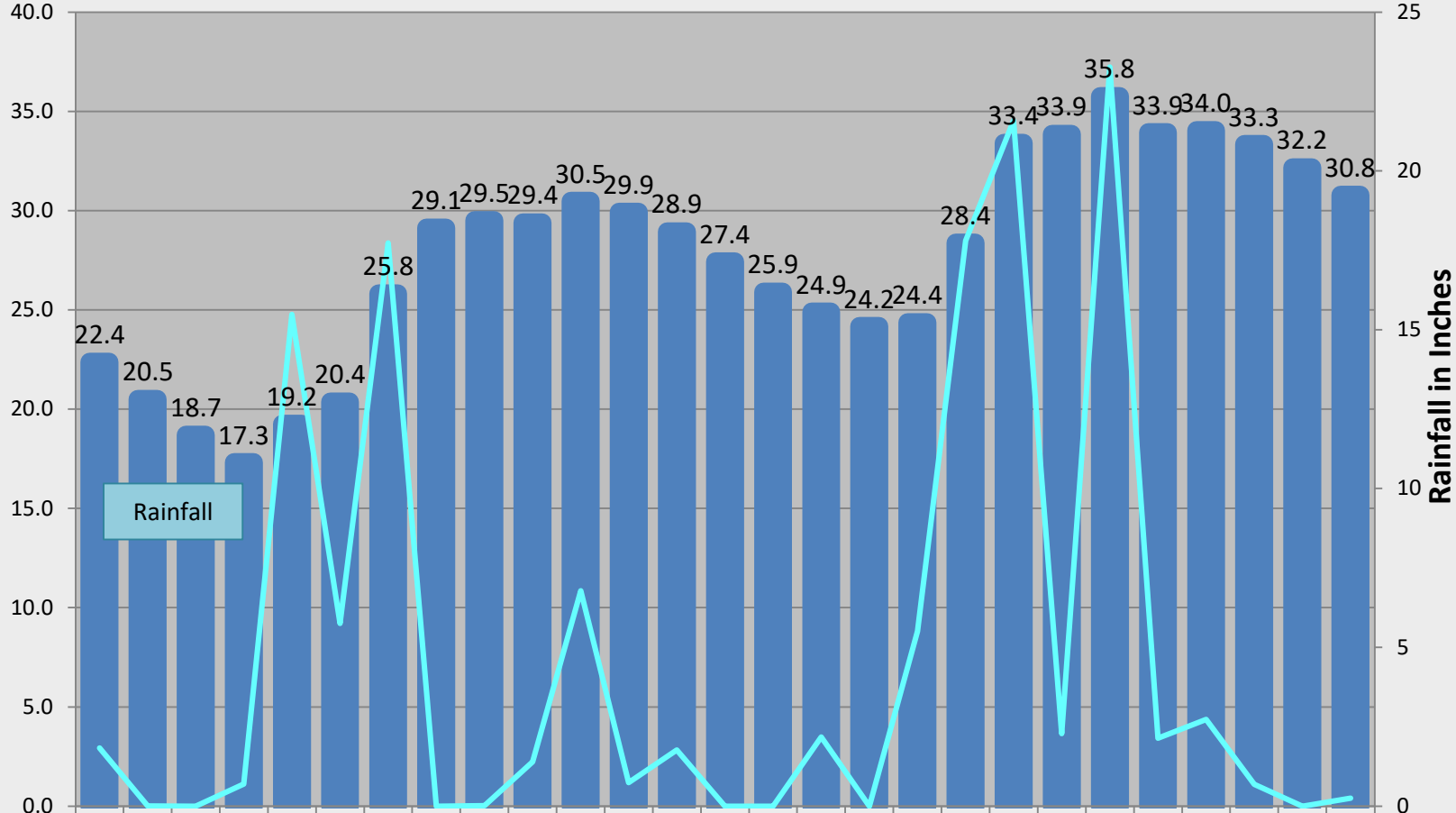
Our water.
Our future.
Paradise Irrigation District



# Months of Supply Remaining on the First of the Month with No Future Rain Based on 2020/21 Use

Full Reservoir Supply is 33.84 Months of Supply Remaining. Water use from Oct 2020 through Oct 2021 averaged 363 acre feet per month

Pre-November 2018 Full reservoir




| | Jul-21 | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 | Jul-22 | Aug-22 | Sep-22 | Oct-22 | Nov-22 | Dec-22 | Jan-23 | Feb-23 | Mar-23 | Apr-23 | May-23 | Jun-23 | Jul-23 | Aug-23 | Sep-23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| months remaining | 22.4 | 20.5 | 18.7 | 17.3 | 19.2 | 20.4 | 25.8 | 29.1 | 29.5 | 29.4 | 30.5 | 29.9 | 28.9 | 27.4 | 25.9 | 24.9 | 24.2 | 24.4 | 28.4 | 33.4 | 33.9 | 35.8 | 33.9 | 34.0 | 33.3 | 32.2 | 30.8 |
| Rainfall | 1.83 | 0.01 | 0 | 0.7 | 15.5 | 5.75 | 17.7 | 0 | 0.02 | 1.4 | 6.78 | 0.74 | 1.77 | 0 | 0 | 2.18 | 0 | 5.51 | 17.8 | 21.6 | 2.29 | 23.3 | 2.14 | 2.73 | 0.69 | 0 | 0.25 |

9-13-23

**District Engineering Update for the Board of Directors**

1. Working with customers and providing estimates to provide new water meter services to multiple locations throughout town.
2. Coordinated with Water Works on MISLR 2 and other projects.
3. Working with Slate Geotechnical Consultants for Magalia Dam 100% design. The Design has continued after meeting with FEMA, however any further required borings are on hold until FEMA has finished their review.
4. Zone A pipeline is progressing nicely, the pipeline portion has been installed from the connection point on Skyway to the water treatment plant. They are completing the installation of the valve cans along Skyway.
5. Monthly water reporting is continuously being completed.
6. Working with the Town of Paradise as they complete the second phase of this year's on-system roads, our service laterals have been completed on all sections in this phase. They will be starting the 2023 Off-system phase in September; all laterals have been replaced on these roads.
7. Working with Customer and Distribution group at 5275 Skyway where the customer will be installing a 6" line off Schmale Ln. to inside their property for a Hydrant, Fire Suppression system, and meter.
8. Worked with Water Works and Myers and Sons in conjunction with the Distribution group and Treatment plant to complete the shutdown of Zone A tank to install the new pipe for Tanks at B-Reservoir site. Also working with all the groups concerning the leakage at the tanks.
9. Notice to proceed has been issued to West Valley for the Mains project. Due to supply chain issues this project is not projected to begin until later this year or early next year.
10. MISLR phase 3 work has begun with the installations of backflow only sites and service laterals should begin soon for this project.
11. Bill Taylor has begun working in the Engineering department and has been doing a great job transitioning and will be a major asset for the department going forward.

# Water Supply Recovery Program Update

## Executive Summary

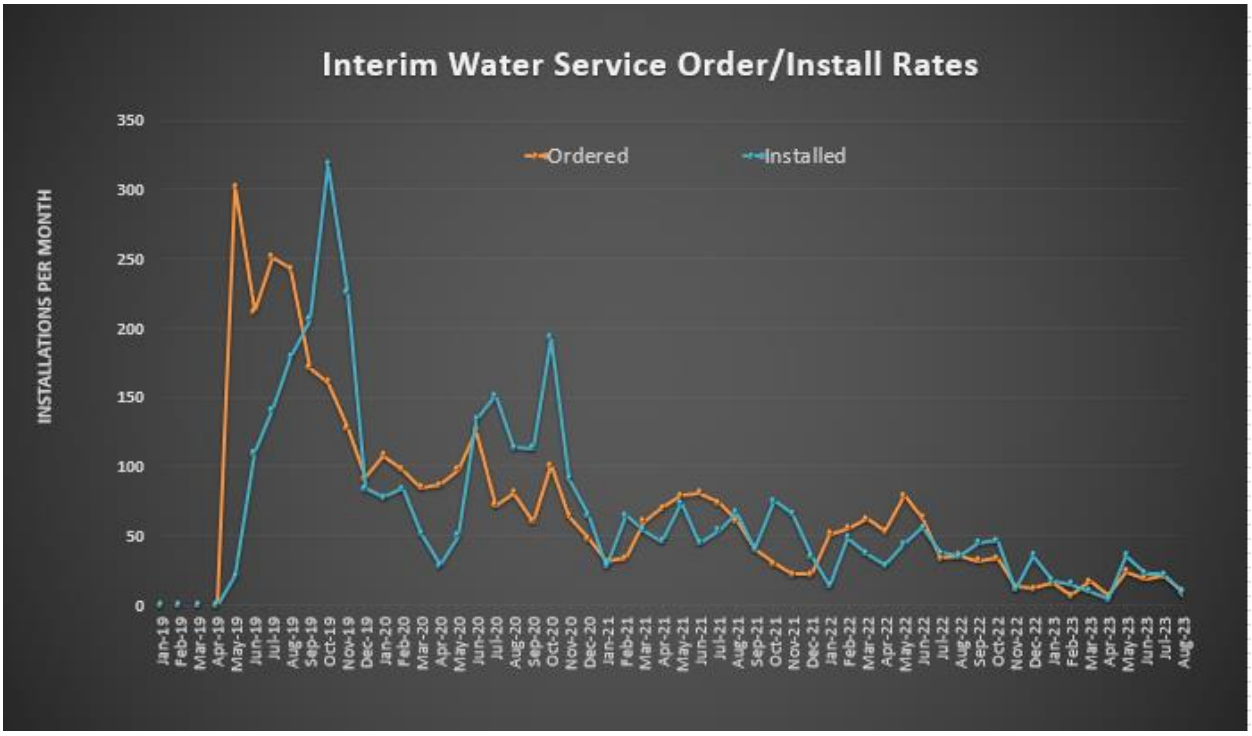
The Recovery Program continued on in good order in June. Highlights from the update:

- **Interim Water** orders continued in August with 10 orders. 9 installs were conducted. This program is planned to sunset with the start of MISLR 3.
- **Service lateral replacement** rates continued at a normal production rate. Priority locations where the Town's paving is imminent (2023 Off System Paving) were the focus as well as priority locations and building permits.
- **Building permit applications** rose with 40 new applications, in line with the 2-year average (43/mo). We have worked to carve out space in the schedule for building permits nearing completion in between priority paving locations to be able to deliver new services to those who are building new houses.
- **Meter and Backflow installations** - As of 8/30, 4,631 meters were installed - 78% of the 5,910 accounts who have requested water have meters installed. The focus of all remaining work on the MISLR 2 Project are coordinated installs at commercial properties.
- **Phase 3 of the MISLR Project** – Phase 3 of this project has begun with backflow only installations and service laterals. There will be some overlap in time between the two project phases as Service Laterals for begin for MISLR 3. Coordinated installs for MISLR Phase 2 will continue until complete, projected for the end of September/beginning of October.
- The **Mains Replacement Project, Phase 1** was awarded to West Valley Construction and kicked off with the preconstruction conference in August. The start of this project is expected to be delayed until the spring due to long lead times for procurement of materials.
- **Reservoir B Replacement Project** is nearing completion. There has been a setback for the project with floor leakage of the concrete floor which is in the process of being addressed. Following repairs the tanks will be re-tested and re-disinfected prior to being placed into service. There are also final project completion activities including electrical and controls testing, final grading, gravel surfacing, fencing, etc. which will occur over the next month to two months.
- **Zone A Pump Station and Transmission Main Project**: The Zone A Transmission Main (ZATM) construction is complete other than the final tie-in to the distribution system. Work on the Zone A Pump Station (at the WTP site) will commence in September.
- **Billing** for august was a bit above overall anticipated burn rate, however we remain on-track with budget through the end of 2023. As we move into the fall, we will assess and begin discussions regarding contract extension into 2024.

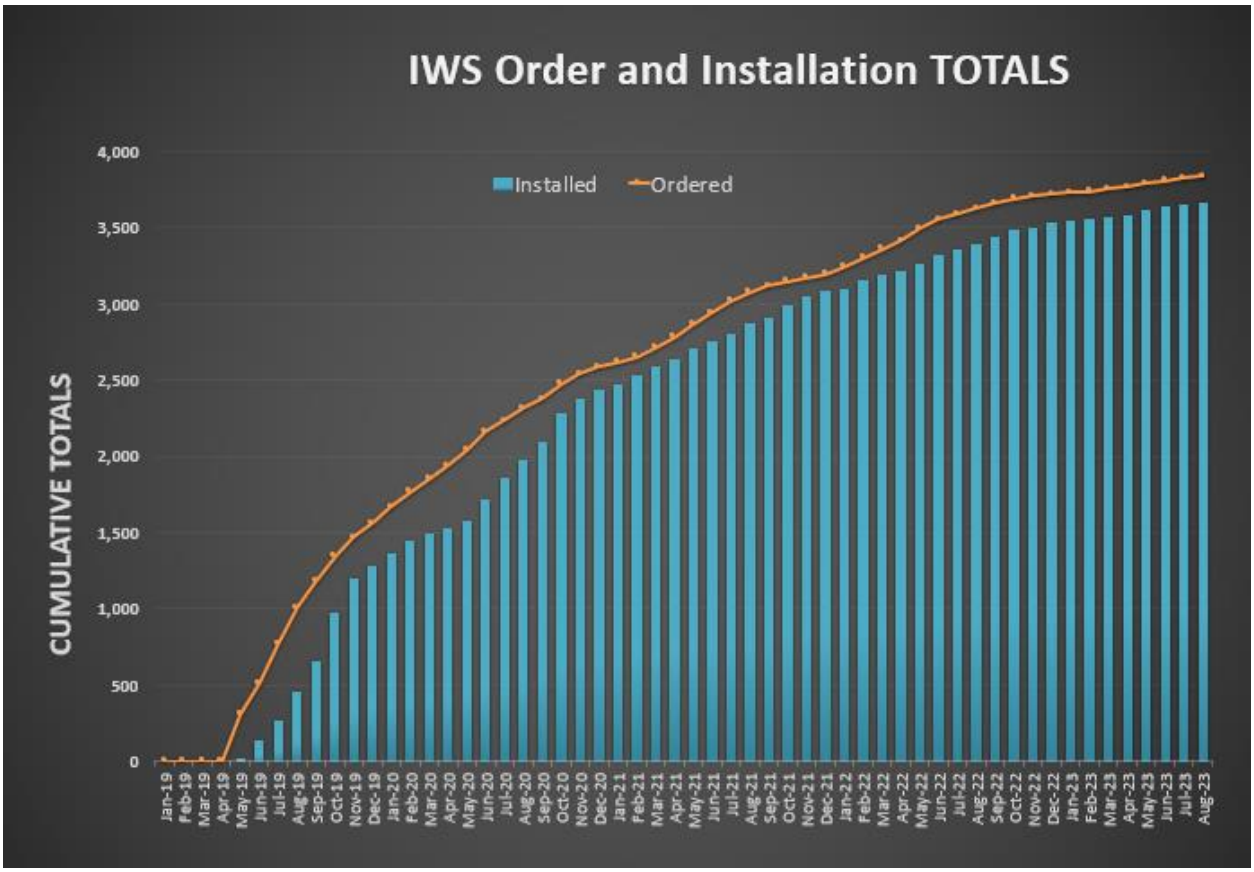
# Water Supply Recovery Program Update

## Metered Interim Water Service

MIWS orders in August wound down with 10 orders. The overall downward trend of this program has continued and will be sunset with the start of MISLR 3 as those deemed priority installations by PID management will be wrapped into the contractor's workload and have installations conducted alongside building permit holders. 9 installations were completed in August.



# Water Supply Recovery Program Update

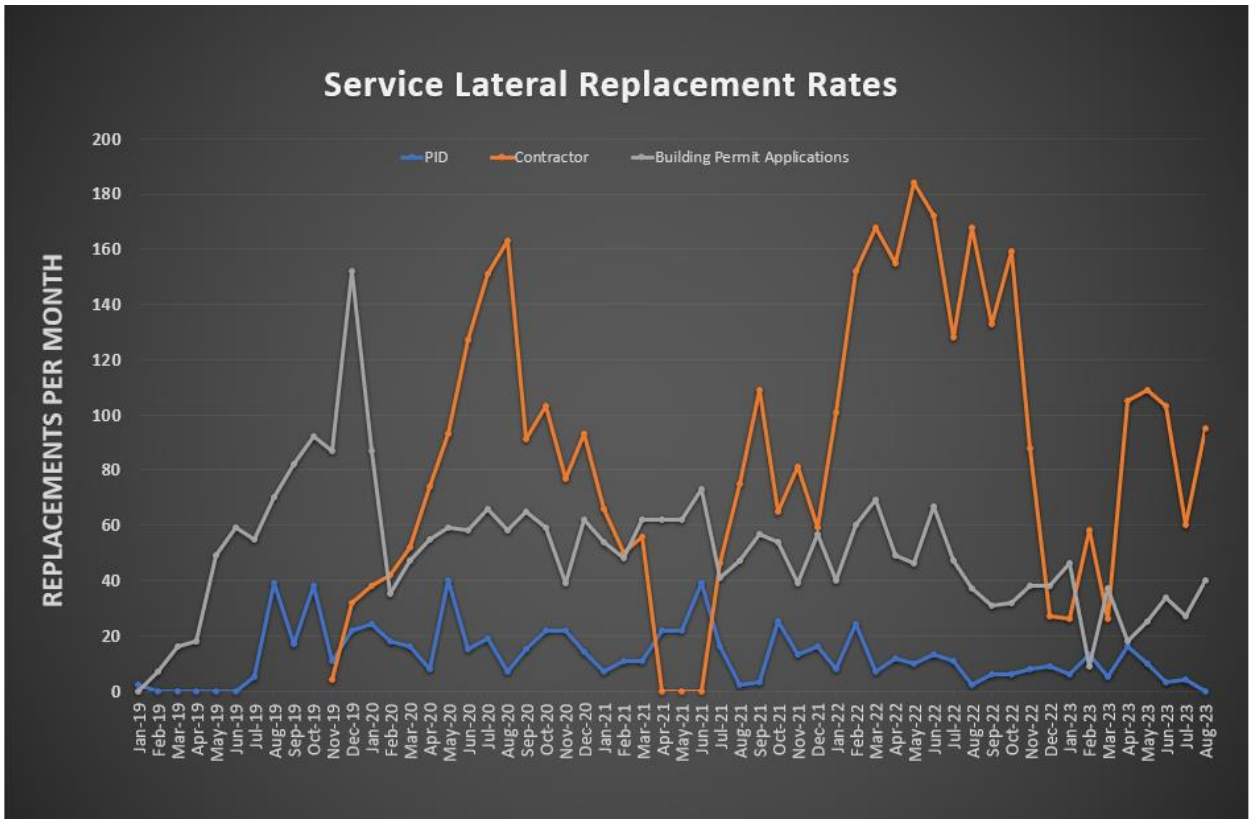


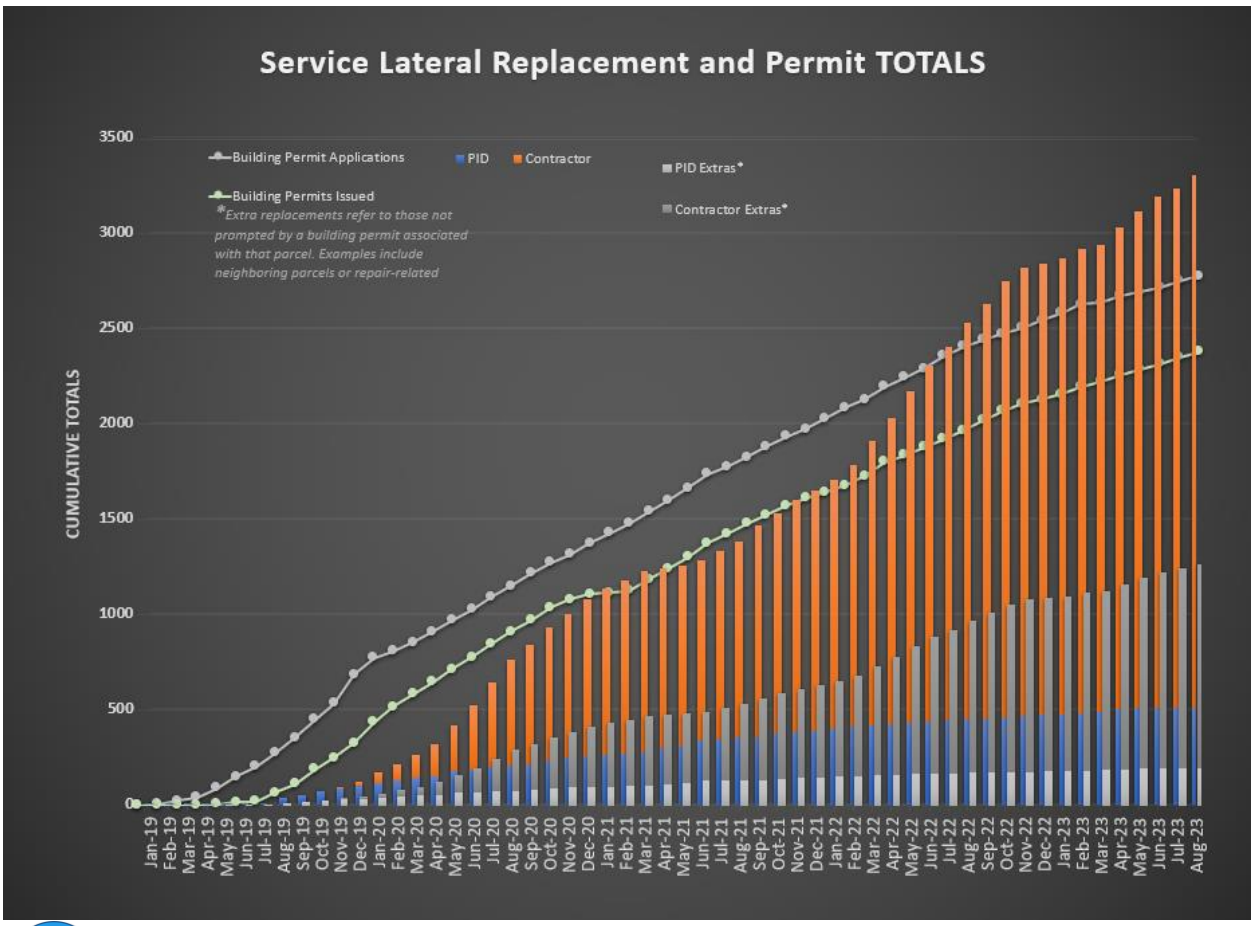

## Meter Installation and Service Lateral Replacement Program

In August the Meter Installation and Service Lateral Replacement (MISLR) Project installed 95 service laterals. The team coordinated with PID to continue focus on service laterals in advance of the Town of Paradise's paving project (the next phase is 2023 Off System Paving) as well as priority installations to support building permits. New permit applications at the Town of Paradise rose to 40/month, still below the 2-year average of 43/mo. As we work through the final weeks of the MISLR Phase 2 project and transition over to MISLR Phase 3, focus is on remaining coordinated meter/backflow installations at commercial properties as service lateral work shifts to MISLR 3.

MISLR 3 is in the startup phase with careful attention being put to documentation of the two project phases separately. There will be some staffing overlap of the projects as service laterals for MISLR 2 wrap up and begin with MISLR 3. There are several more weeks of remaining coordinated installations for MISLR 2 at commercial properties, scheduled to wrap at the end of September/beginning of October. Once that happens, all staff will shift over to focus on MISLR 3 project work.

# Water Supply Recovery Program Update

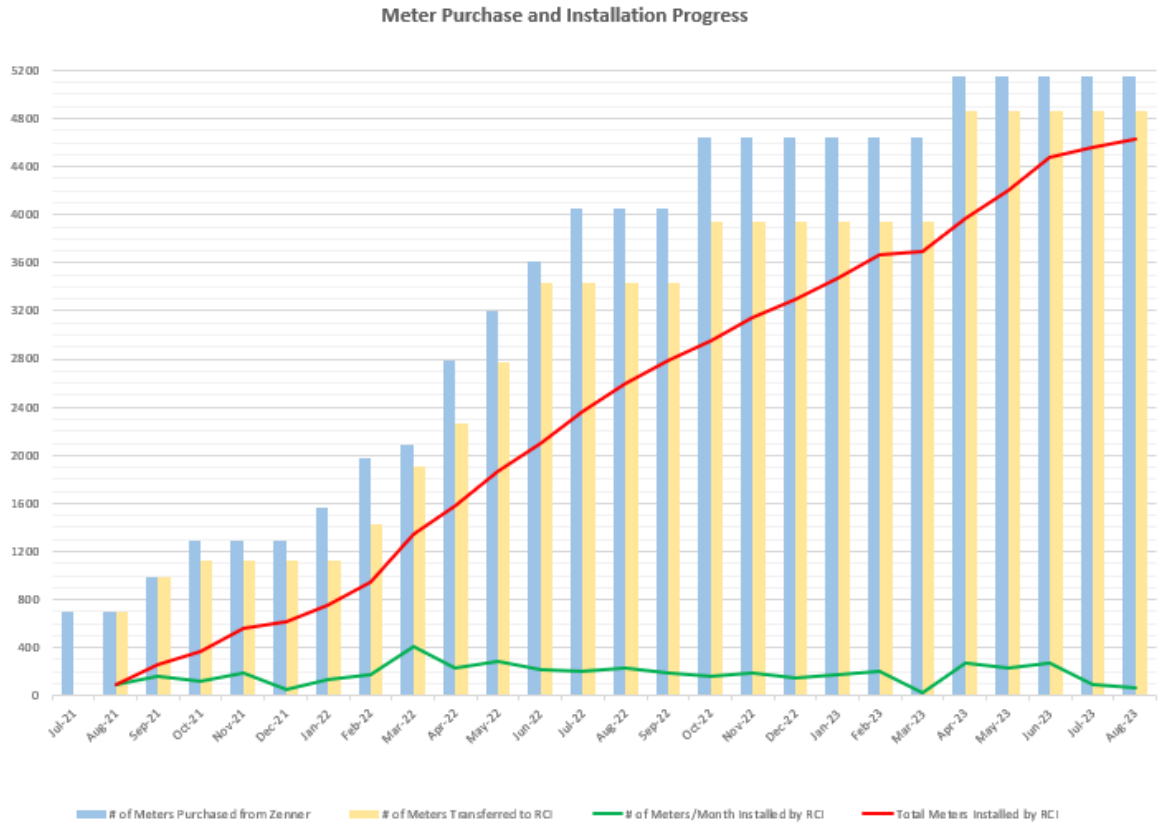


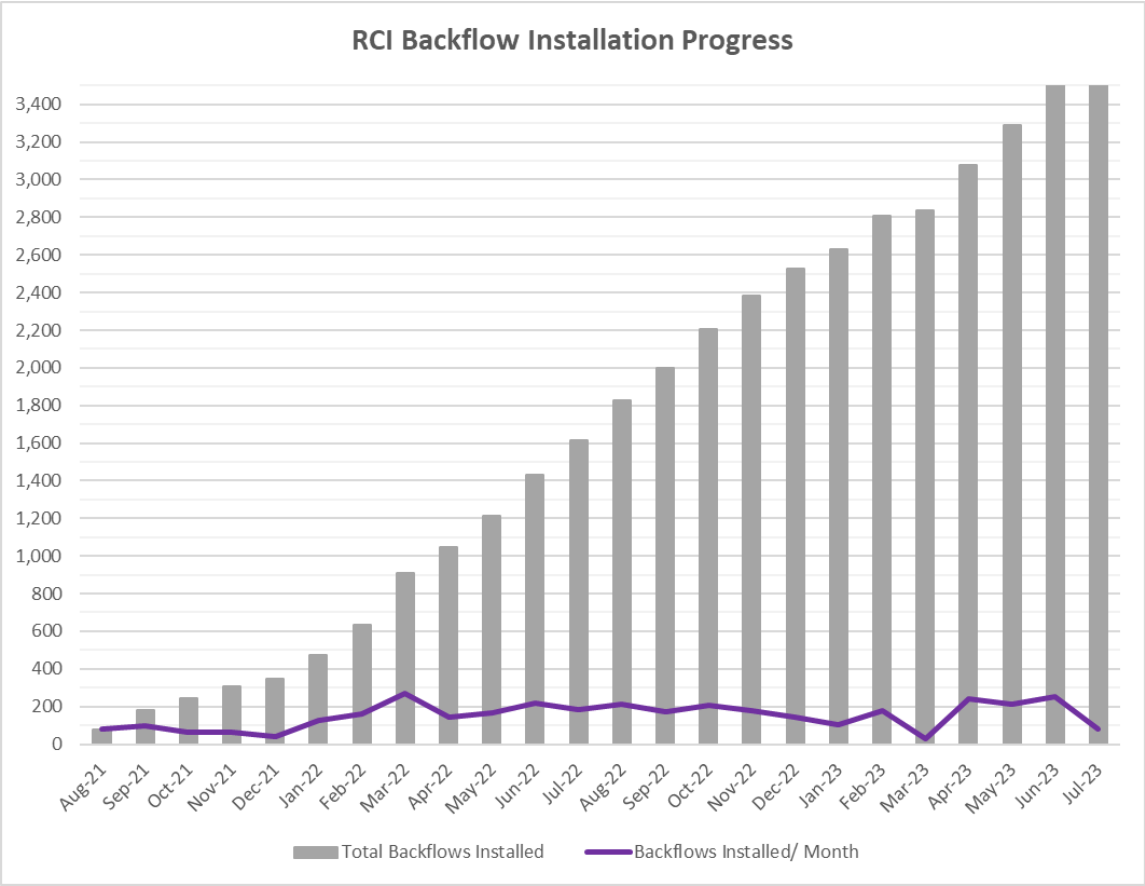
# Water Supply Recovery Program Update

## Meter Replacement Program

In August RCI Installed 68 meters and 62 district-maintained backflow preventers. This totals 4,631 meters and 3,683 district-maintained backflows from the start of the project. There are currently 5,648 accounts who have opted into a district-maintained backflow, which is approximately 96% of all customers who have made a request for water to date.



# Water Supply Recovery Program Update




## Main Replacement Project

The Mains Replacement Project was awarded to West Valley Construction and has kicked off in the planning phases with a Preconstruction Conference held at the end of August. Staff is working with West Valley project management to identify a start date for the project which is likely to be delayed until approximately March of 2024. West Valley is experiencing the same delays in material procurement that we have observed over the past 2 years industry wide. These delays and lead times are consistent with those observed by PID's inventory and management staff. Currently, the project team is working through submittal review and approval to ensure that all long lead time items can be ordered promptly and will be documenting the projected schedule delay via change order.

# Water Supply Recovery Program Update

## Reservoir B Replacement Project

The final tie into the PID distribution of the site piping was completed the morning of August 31st. The event began at 5 am on Wednesday morning, August 30th and due to a number of complications during the tie-in work being performed, was not completed until early the morning of August 31st. This required considerable effort from all of the project team, including Myers and Sons construction staff, Water Works Engineers field services and PID staff who were all on site for a tremendously long day. This was all done in order to completely restore service to the system by 7:00 am on August 31st. This was not ideal (the original plan from RCI was to complete this work in 8 hours), but it became needed in order to respond to how actual construction was going during that day.

The tank leak test was scheduled for the first week of September. Unfortunately, both tanks experienced leakage. It has been determined that the likely culprit for this leakage are floor cracks in the concrete floor. A crack repair plan has been proposed by Myers and Sons and will be carried out in the coming weeks. The tanks will then be re-tested and re-disinfected. The repairs and testing will be completed on one tank and confirmed to be successful prior to repairing the second tank.

The remaining yard piping is mostly complete. The irrigation system is all that remains to be completed of the yard piping network.

The final grading, fencing, and landscaping line items are scheduled to be completed in September/October. PID is confirming the location of the property boundaries with survey control points prior to the fence installation.

The equipment pads for the solar panel batteries at the other storage tank sites have been poured. The structurally engineered solar panel array mounts will be installed within the month, finishing up the photovoltaic portion of the Reservoir B project. Electrical panel testing and completion is ongoing.

The project cost has increased above the approved contingency amount. This is on the Board agenda to discuss/consider under a separate item.

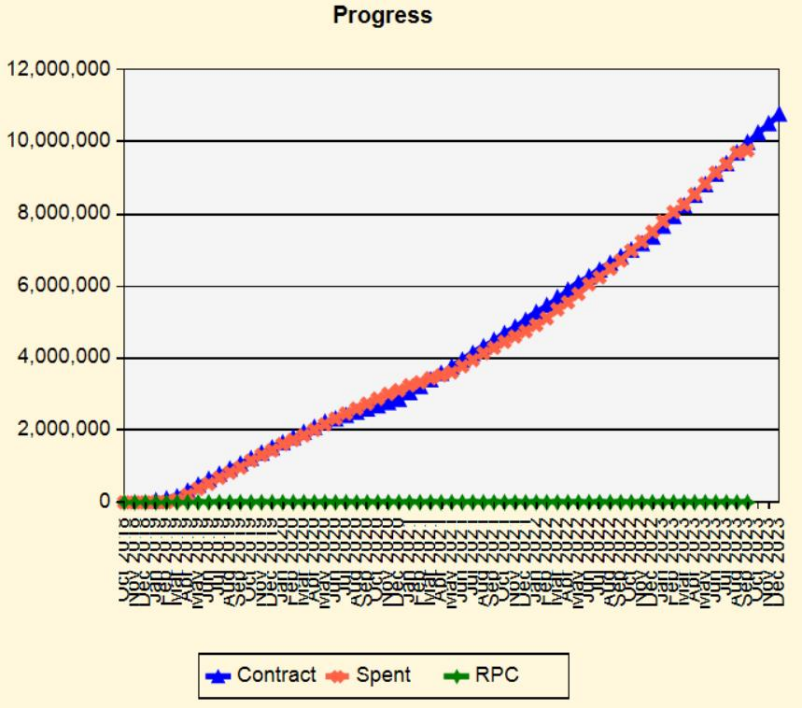
## Zone A Pump Station and Transmission Main Project

The Zone A Transmission Main (ZATM) construction is complete. The pipeline has passed the pressure test. The contractor is completing punchlist items, like installing the combination air relief valves and valve cover boxes.

Paving of the pipeline is complete, as of 8/8/2023. The slurry seal of the Skyway Intersection at Coutelenc and Pine Needle will be completed at the end of September.

The contractor has resumed work at the Water Treatment Plant. Installation of shoring for the excavation of the pump station is underway.

# Water Supply Recovery Program Update




## Budget

Burn rate and budget continues to proceed on-track overall. Total billing for July ($298k) was above our projected $270k/month burn rate for the project, but we still remain on-track for budget remaining for the last 4 months of 2023. We plan to bring discussions forward to the Board in October regarding contract extension into 2024.

AGENDA ITEM 9.h.
Post-Fire Recovery Update

SEPTEMBER 20, 2023

# Post-Fire Recovery Update

## FEMA Public Assistance (PA) – DR-4407 (Camp Fire Major Disaster Declaration)

The FEMA PA Program provides reimbursements for costs incurred while responding to and recovering from a Presidentially declared major disaster. For this event, the federal cost share was 90% on Emergency Work projects (Categories A-B) and 75% on Permanent Work projects (Categories C-G). CalOES covers 75% of the remaining local cost share, so they pay 7.5% and 18.75% respectively. This typically leaves PID with 2.5% and 6.25% respectively.

For this event, PID was able to claim donated resources and offset the entire local cost share on the emergency work projects. In addition, some of the funding from the Drinking Water State Revolving Fund (DWSRF) is offsetting the local cost share on the major PWs for repairing the water system as well as the replacement Reservoir B when FEMA denied the mitigation proposal. With all funding combined, PID is now only paying a local cost share on recovery-related projects of approximately 0.3%.

Upcoming priorities and recent developments include:

- **Financial Dashboard Development** – Continued inputting data in the Ingenious Build system. Delay due to resolving unique issues in the system related to documenting early payments from CalOES.
- **Pursuing FEMA BRIC grant for Magalia Dam Construction –** The BRIC NOI was successfully submitted Friday, August 18. We received an initial list of critiques and suggestions for updates from CalOES, but the program is now stalled due to the congressional budget delays, which has caused FEMA to activate their Strategic Funds Management process and delay new grant programs.
- **Begin Discussions with Butte County for Magalia Dam Construction –** Still need to get the County involved in the future construction project since the dam-widening is for their plans to widen Skyway. This could open up additional funding for evacuation routes through Department of Transportation's PROTECT grant next summer.
- **Time Extension Requests for HMGP and PA Projects** – The HMGP Time Extension request for Magalia Dam was submitted August 18, and revised at CalOES request through the next couple of weeks.Time Extension requests for the PA projects will be submitted by Friday, September 22.
- **Pending Reimbursement Requests** – We are continuously working with CalOES reviewers to clarify documentation and finalize costs on multiple projects. This process may also be impacted by FEMA"s Strategic Funds Management process.

Following are status summaries for each project awarded by FEMA under Public Assistance:

APTIM

## PW 3 GP 72826 B Emergency Response/Protective Measus

| | | |
|---|---|---|
| Obligated: | $ | 1,654,810.97 |
| Fed Share: | $ | 1,489,329.88 |
| State Share: | $ | 124,110.82 |
| Received: | $ | 1,637,185.00 |
| Pending: | $ | 23,744.30 |

Project is in closeout with CalOES. Overpayment will be addressed at closeout.

## PW 15 GP 84775 Z PID Management Costs

| | | |
|---|---|---|
| Obligated: | $ | 68,779.00 |
| Fed Share: | $ | 68,779.00 |
| Pending Amend: | $ | 4,105,052.56 |
| Received: | $ | 0.00 |
| Pending: | $ | 4,105,052.56 |

Project 84775/PW 15 was obligated when PID only had PW 3 obligated at $1,375,597.87, leading to PW 15 having a total value of 5% of that amount or $68,779.89. Since then, PID has had an additional 12 obligations for a total of $82,101,045.19, resulting in a need for an amendment to add 5% of that value, or $4,105,052.26. Amendment was requested on 4/18/22.

## PW 33 GP 84011 A Arborist

| | | |
|---|---|---|
| Obligated: | $ | 10,210.00 |
| Fed Share: | $ | 9,189.00 |
| State Share: | $ | 765.75 |
| Received: | $ | 9,955.00 |
| Pending: | $ | 0.00 |

Project will be closed out when the last small project is closed out.

## PW 138 GP 90006 F Water Storage Tanks and Supporting Systems

| | | |
|---|---|---|
| Obligated: | $ | 0.00 |
| Fed Share: | $ | 0.00 |
| State Share: | $ | 0.00 |
| Received: | $ | 0.00 |
| Pending: | $ | 0.00 |

Project was written as a placeholder for potential damages to tanks and associated systems. None were found, and if any had been found, insurance would have covered it and the deductible is on the equipment/vehicles PW.

## PW 221 GP 94422 G District-wide Fencing

| | | |
|---|---|---|
| Obligated: | $ | 100,000.00 |
| Fed Share: | $ | 75,000.00 |
| State Share: | $ | 18,750.00 |
| Received: | $ | 93,750.00 |
| Pending: | $ | 0.00 |

Project was initially written for $578,655.00 with an insurance reduction of $478,655.00, have received all funding from FEMA and CalOES. Project is pending completion of Reservoir B, so all damaged funding can be completed under one project. Project can then be closed out upon completion of all small projects.

## PW 238 GP 94415 C Road Damage Caused by Fire (Henson Road Culvert)

| | | |
|---|---|---|
| Obligated: | $ | 134,173.00 |
| Fed Share: | $ | 100,629.75 |
| State Share: | $ | 25,157.44 |
| Received: | $ | 2,516.00 |
| Pending: | $ | 123,271.19 |

Project was written for repair costs of $84,263.00 and 406 mitigation costs of $49,910.00 to armor the culvert openings with rock. PID is considering performing this repair internally.

## PW 257 GP 84049 B Contaminant Testing by PID

| | | |
|---|---|---|
| Obligated: | $ | 1,781,833.70 |
| Fed Share: | $ | 1,603,650.33 |
| State Share: | $ | 133,637.53 |
| Received: | $ | 1,576,922.00 |
| Pending: | $ | 160,365.86 |

Most of project funds have been received due to the project being complete at the time of obligation. Remainder (10% of fed share) will be held against closeout of the disaster. We have submitted documentation, both for corrections and additional costs, for a net increase of $530,892.56. We are still actively answering RFIs from FEMA for this closeout.

## PW 265 GP 96404 E Vehicles, Equipment and Buildings

| | | |
|---|---|---|
| Obligated: | $ | 35,942.32 |
| Fed Share: | $ | 26,956.74 |
| State Share: | $ | 6,739.19 |
| Received: | $ | 33,695.00 |
| Pending: | $ | 0.00 |

Project was written for $883,769.59, with a reduction for anticipated insurance proceeds of $847,827.27. Has been fully paid as a small project. PID staff are working through the list of minor repairs and purchases that need to be made to complete this project. In discussions with PID staff, some potential scope items may not be feasible or desired, so a scope modification may need to occur.

APTIM

## PW 321 GP 76334 F Reservoir B

| | | |
|---|---|---|
| Obligated: | $ | 347,704.00 |
| Fed Share: | $ | 260,778.00 |
| State Share: | $ | 65,194.50 |
| Received: | $ | 0.00 |
| Pending: | $ | 325,972.50 |

Project was written for replacement of Reservoir B in its pre-disaster form with cover and liner. FEMA rejected 406 mitgation proposal to replace with steel tanks. DWSRF is funding the full project, so FEMA funds aren't needed here.

## PW 326 GP 91767 Donated Resources

| | | |
|---|---|---|
| Obligated: | $ | 382,983.85 |
| Fed Share: | $ | 344,685.47 |
| State Share: | $ | 28,723.79 |
| Received: | $ | 376,281.00 |
| Pending: | $ | 2,871.74 |

FEMA allows donated resources projects as a way to offset the local cost share. PID received $1,090,910.05 in donated water, but the obligation is limited to the amount that will result in matching PID's local share on other Category A and B projects. Unsure why the CalOES' payments resulted in an overpayment – this can be resolved at disaster closeout.

## PW 328 GP 94420 D Paradise and Magalia Dam Burn Damage

| | | |
|---|---|---|
| Obligated: | $ | 35,631.32 |
| Fed Share: | $ | 26,723.42 |
| State Share: | $ | 6,680.85 |
| Received: | $ | 33,404.00 |
| Pending: | $ | 0.00 |

Project was written for minor repairs to the surface of Magalia Dam as well as damage to the conveyance pipe between the dam and WTP. Project referenced Paradise Dam as a placeholder, but no damage was observed. As a small project, this has been completed, but the scope of work will need to be completed before closing all small projects.

## PW 332 GP 94494 F Meters, Meter Boxes and AMI System

| | | |
|---|---|---|
| Obligated: | $ | 2,087,334.00 |
| Fed Share: | $ | 1,565,500.50 |
| State Share: | $ | 391,375.00 |
| Received: | $ | 39,138.00 |
| Pending: | $ | 1,917,737.50 |

Project was written for replacement of meters, meter boxes and the automated meter reading system, with a 406 mitigation proposal to replace plastic meters and boxes with brass meters and concrete boxes. Initial reimbursement requests are on hold pending further insurance information.

APTIM

## PW 333 GP 94496 F Service Laterals

| | |
|---|---|
| Obligated: | $ 42,793,182.00 |
| Fed Share: | $ 32,094,886.50 |
| State Share: | $ 8,023,721.62 |
| Received: | $ 802,372.00 |
| Requested: | $ 13,40125.98 |
| Pending: | $ 25,915,210.14 |

Project was written for testing and replacement of the rest of the FEMA-eligible service laterals, after PW 355 covered the initial phase of service lateral replacements from the Sutton contract. This project includes a 406 mtiigation proposal for backflows for the quantity of laterals granted (the remainder of backflows are covered on project 349). This project includes the latter half of the Sutton contract and the RCI contract. An improved project is being formulated to shift testing costs into replacing more laterals. Initial RFR submitted 1/18/23.

## PW 349 GP 130152 F Water Mains

| | |
|---|---|
| Obligated: | $ 29,873,110.00 |
| Fed Share: | $ 22,404,832.50 |
| State Share: | $ 5,601,208.12 |
| Received: | $ 560,120.00 |
| Pending: | $ 27,445,920.62 |

Project was written for replacement of mains determined to be damaged by testing, as well as a 406 mitigation proposal for the remainder of backflows. This project is only recently started and initial reimbursement requests will be formulated soon. Time Extension approved for November 2023, will need to request a new one in October.

## PW 355 GP 130189 F Initial Service Laterals (pre-FEMA-428 Program)

| | |
|---|---|
| Obligated: | $ 4,587,432.00 |
| Fed Share: | $ 3,440,574.00 |
| State Share: | $ 860,144.00 |
| Received: | $ 4,386,732.00 |
| Pending: | $ 86,014.00 |

Project was written for the initial phase of service lateral replacements from the Sutton contract. FEMA's titling of the project as "completed outside of 428" led to confusion of CalOES and early payment of funds – notified CalOES of the issue and they decided not to pursue correction of the issue since the work had already been completed. Working on resolving the Sutton change orders to get ready for project closeout – the increase in eligible costs will be submitted at closeout for extra reimbursement, which is expected to surpass the amount of CalOES' overpayment. Sutton issues appear to be resolved and we will file for reimbursement as soon as final payment is processed.

APTIM

## FEMA Hazard Mitigation Grant Program (HMGP)

The FEMA Hazard Mitigation Grant Program is a competitive grant program tied to major disaster declarations. The program provides mitigation opportunities for facilities that were not damaged by the event, but that could be hardened against or protected from a similar type of event.

For the DR-4407 (2018 Camp Fire) HMGP cycle, PID submitted four applications. One application was allowed to partially move forward as an Advance Assistance HMGP grant, for the study and design of the options to restore Magalia Dam. For the DR-4344 (2017 Wildfires) HMGP cycle, PID had submitted an application for a generator at the WTP, as well as pipeline and pump stations improvements. This grant was suddenly revived in early 2022, and we just received the formal award notice this month.

The HUD CDBG-MIT program (discussed below) offers opportunities to provide local cost match for HMGP projects, so we will be submitting both HMGP grants for match funding when the application window opens. APTIM's CDBG advisors are working to put together guidance on any project modifications in order to be compliant with HUD-CDBG (such as Davis-Bacon provisions in RFPs and contracts).

As of September 2023, future reimbursements may be affected by FEMA's Strategic Funds Management process.

### DR-4344-PJ0619 Paradise Water Supply Hazard Mitigation Project

| | |
|---|---|
| Awarded: | $ 6,259,315.00 |
| Federal Share: | $ 4,694,486.25 |
| PID Share: | $ 1,564,828.75 |
| Requested: | $ 1,246,504.13 |
| Received: | $ 841,390.35 |
| Pending: | $ 4,694,486.25 |

This grant was just awarded in September 2022, for a new generator at the WTP, plus pipeline and pump station upgrades for Zone A. This is also known as the ZAPS Project. PID staff are working to review/revise the 5-year-old cost estimates to determine if a budget increase request is needed. The RFPs for this scope have been reviewed for FEMA compliance, and we have located the HUD terms and conditions to add as well.

### DR-4407-PJ0278 Advance Assistance – Magalia Dam Study and Design

| | |
|---|---|
| Awarded: | $ 1,610,575.00 |
| Budget Increase: | $ 916,602.58 |
| Total Expected: | $ 2,527,177.58 |
| Federal Share: | $ 1,617,416.23 |
| PID Share: | $ 909,761.35 |
| Requested: | $ 519,445.22 |
| Received: | $ 350,625.52 |
| Remaining: | $ 1,266,790.71 |

The study phase of this grant was completed in early 2022. PID has received an extension to the period of performance and requested a budget increase approval from FEMA. We've been informed that the available bucket of funding is smaller but that PID may request the full amount remaining, and have revised our request to do so. The design contract was approved, so that design may be accomplished in time to apply for the 2023 BRIC funding cycle. CalOES has asked that coring sample work be stopped at the request of FEMA. Call scheduled with FEMA and CalOES on July 13th to discuss path forward.

APTIM

## Community Power Resiliency Allocation to Special Districts (CalOES)

Previous PID leadership applied for a Community Power Resiliency Grant and received an allocation of $269,200 to install solar panels on the water tanks and update the District's Emergency Response Plan (ERP). Bill Taylor completed the ERP portion of the scope. Procurement of the solar panel work proved difficult due to the relatively small scale, so after a couple attempts at procuring this alone, it was bundled into the Reservoir B RFP. This work came in at under half of the expected cost. Closeout documents were submitted, with a small amount of diesel fuel submitted as additional eligible costs. A request for remittance of the excess grant funds was received and has been paid. This will be the last report on this grant program.

## California Drinking Water State Revolving Fund (DWSRF)

The California DWSRF has awarded funding to PID, through a mixture of ASADRA and other funding sources, to accomplish the following tasks:

- Fund the Almond Street project (completed)
- Fund the replacement of Reservoir B (begun)
- Fund the local cost share of FEMA PA PWs related to the recovery of the water system (PWs 332, 333, 349 and 355)

We are working to pull all the documentation and develop a management plan that meets requirements for reporting, reimbursement, and any scope or schedule changes. We are also looking to pursue additional DWSRF grants to fund the added cost of rock removal at Reservoir B. We met with Bow Reilly at DWSRF, who confirmed that additional funding is available and can be requested to cover cost increases. We are working with WaterWorks staff to calculate budget revisions and make the request for additional funding.

## HUD Community Development Block Grants (CDBG-DR, -MIT)

California Department of Housing and Community Development (HCD) released the allocations for CDBG-Disaster Recovery (CDBG-DR) in August 2022. Of the $14M we submitted in requests, we are expecting an allocation of approximately $3.25M. One project (the portable water treatment truck) was ruled ineligible. Several projects contained scope elements that are in the newly awarded HMGP grant, so those will be included with the Magalia Dam HMGP grant in our submission to CDBG-MIT for FEMA HMGP Match.

We met with the Town of Paradise and HCD on Wednesday 11/16/22 to discuss how information and financials will flow between PID, the Town (as the main applicant) and HCD. As of that meeting, the Town and HCD had not finalized their agreement, and our next steps are based on the finalization of that documentation, which is not expected until early next year. We met with HCD on 1/17/23 to discuss the form to prove Urgent Need and contract requirements (David-Bacon, Section 3, etc) for work we plan to fund through CDBG-DR and CDBG-MIT. On 2/13/23, the Town indicated they still hadn't seen an MSA to review. As of 7/5/23, Requested CDBG Project Descriptions have been provided to the Town. No update from the Town on the subrecipient agreement.

## FEMA Building Resilient Infrastructure and Communities (BRIC)

FEMA's BRIC Notice of Intent (NOI) window ended November 11, 2022. We had intended to submit the Magalia Dam construction project in this cycle of BRIC funding, but CalOES staff informed us that the project would not be selected for this cycle due to our current schedule for having a completed, shovel-ready design. They did inform us that FEMA had held back some of the recent legislative additions to BRIC so that next year would be comparable to this year's allocation, so our current plan is to submit for next year's cycle (NOI window expected in Aug-Sep 2023). We are also seeking additional funding sources to reduce our requested cost share on BRIC, thus making us more competitive. CalOES mitigation staff provided guidance on options to pursue BRIC funding. Initial feedback from the meeting is the allocation this year is anticipated to be significantly lower than last year and will be more competitive to obtain. The BRC NOI was submitted Friday 8/18. We have since been notified by CalOES that FEMA's Strategic Funds Management process has been activated and will be delaying the BRIC 2023 application process. We are using the delay to respond to helpful suggestions from CalOES on the NOI.

"Paradise Irrigation District (PID) is dedicated to the business of producing and delivering a safe, dependable supply of quality water in an efficient, cost effective manner with service that meets or exceeds the expectation of our customers."

DATE: September 20, 2023

TO: PID Board of Directors

FROM: Tom Lando, District Manager
Mickey Rich, Assistant District Manager

RE: Continued: Consider updates to PID's Schedule of Fees and Charges

PID's schedule of fees and charges need updating. The attached schedule of fees is representative of the current costs to provide non-property related services. If approved, staff recommend an effective date of January 1, 2024 to allow time to implement the changes.

Fees not included in this schedule:

Water Waste fees

The Board previously inquired about water wasting fees. These fees are part of the District's water shortage contingency plan, specifically ordinance 2015-01 and can be collected when the District's water usage restrictions or other water-related policies have been violated. The fees are charged as part of a citation process which includes a citation warning, initial citation of $100, and subsequent citations of $200, $500 for the same offense. A change to these fees would require change to the ordinance.

Water Infrastructure Damage Fees

We are currently working with legal counsel to develop a similar ordinance to water waste for the purpose of collecting for infrastructure damage. The policy changes and ordinance/resolution would be a process outside of the regular fee schedule.

No Increase to annual backflow maintenance fee

We are not recommending an increase in the backflow maintenance fee at this time as there are still ongoing changes in the meter department.

Recommended Motion: "I move to approve the amended schedule of fees and charges as presented effective January 1, 2024."

| Paradise Irrigation District | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Current and Proposed Fee Schedule | | | | | | | | | | | | | | | | | |
| | Proposed | Current Fees | | Note | District Secretary | Accounting Technician | Billing Technician | Customer Service Rep | Finance & Accounting Mng | Meter Serviceperson | Meter Supervisor | Utility 2 | Engineering | Service Truck | Materials Cost | Noticing & Mailing Costs | Calculated |
| Hourly Rate | | | | | *$78.50* | *$44.00* | *$48.77* | *$35.66* | *$82.74* | *$45.61* | *$66.96* | *$39.86* | *$97.92* | *$42.39* | | | |
| | | | | | | | | | | | | | | | | | |
| **Meter Fees** | | | | | | | | | | | | | | | | | |
| Meter Installation | **40 + LEMO** | **$30.00** | 33% | **+ LEMO*** | | | 0.1 | 1 | | | | | | | | | $40.54 |
| Meter Removal | **30+ LEMO** | **$0.00** | new fee | | | | 0.25 | 0.5 | | | | | | | | | $30.02 |
| | | | | | | | | | | | | | | | | | |
| **Construction Water** | | | | | | | | | | | | | | | | | |
| Permit Fee | **No Change** | | 0% | **Current Business 2" Meter Charge / mo.** | | 0.5 | | | | 0.5 | | | | 0.5 | | | $66.00 |
| Hydrant Deposit | **No Change** | **$2,000.00** | 0% | | | | | | | | | | | | 1600 | | $1,600.00 |
| Cost of Water | **No Change** | | 0% | **3 x Highest Tiered Consumption Charge** | | | | | | | | | | | | | $0.00 |
| Meter Set/Move Charge | **$ 41.00** | **$30.00** | 37% | | | 0.1 | | 0.1 | | 0.5 | | | | 0.25 | | $0 | $41.37 |
| Damages | **No Change** | | 0% | **Actual LEMO* Costs** | | | | | | | | | | | | | $0.00 |
| Unauthorized Taking of Water Penalty | | | | | | | | | | | | | | | | | |
| First Offense | **No Change** | **$100.00** | 0% | **Written Warning** | | | | 0.1 | | | | | | | | $2 | $5.57 |
| Second & Subsequent | **No Change** | **$2,000.00** | 0% | **+ applicable civil code violations** | | | | 0.1 | | | | | | | | $2 | $5.57 |
| | | | | | | | | | | | | | | | | | |
| **Miscellaneous Utility Billing/Customer Fees:** | | | | | | | | | | | | | | | | | |
| Special Meter Reading | **$ 30.00** | **$20.00** | 50% | | | | 0.1 | 0.1 | | 0.25 | | | | 0.25 | | $2 | $32.44 |
| Service Trip Charge | **$ 30.00** | **$20.00** | 50% | | | | | 0.2 | | 0.25 | | | | 0.25 | | $2 | $31.13 |
| Returned Check | **$ 46.00** | **$25.00** | 84% | | | | 0.15 | | 0.15 | | | | | | 25 | $2 | $46.73 |
| Duplicate Bill | **$ 2.00** | **$1.00** | 100% | **each billing** | | | | 0.05 | | | | | | | | $1 | $2.28 |
| Fifteen Day Notice | **$ 15.00** | **$10.00** | 50% | | | | 0.15 | 0.2 | | | | | | | | $2 | $16.45 |
| Delivery of 48-hour Notice | **$ 40.00** | **$20.00** | 100% | | | | 0.15 | 0.15 | | 0.25 | | | | 0.25 | | $2 | $36.66 |
| Meter Inspection/Testing (refundable if accuracy differs +/- 5%) | **$ 83.00** | **$30.00** | 177% | | | | 0.1 | 0.25 | | 1 | | | | 0.5 | | $2 | $82.60 |
| Account Change (property transfers, processing, meter reading, etc.) | **$ 40.00** | **$30.00** | 33% | | | | 0.25 | 0.1 | | 0.25 | | | | 0.25 | 1 | $2 | $40.76 |
| | | | | | | | | | | | | | | | | | |
| **Credit Card Transaction Fees:** | | | | | | | | | | | | | | | | | |
| Online | **$ -** | **$0.00** | | | | 0 | | | 0.01 | | | | | | | $0 | $1.13 |
| Over the Counter or by Phone | **$ 3.00** | **$3.00** | 0% | | | | | 0.1 | | | | | | | | $0 | $3.87 |
| | | | | | | | | | | | | | | | | | |
| **Meter Seal Fees:** | | | | | | | | | | | | | | | | | |
| Customer Request Seal | **$ 30.00** | **$20.00** | 50% | | | | 0.1 | 0.1 | | 0.3 | | | | 0.25 | | $0 | $32.72 |
| Non-payment Seal | **$ 60.00** | **$50.00** | 20% | | | | 0.5 | 0.25 | | 0.3 | | | | 0.25 | | $3 | $60.08 |
| After Hours Unseal | **$ 130.00** | **$100.00** | 30% | | | | 0.5 | 0.1 | | 0.25 | | 2 | | 0.25 | | $2 | $131.67 |
| | | | | | | | | | | | | | | | | | |
| **Meter / Backflow Tampering Fee:** | | | | | | | | | | | | | | | | | |
| First Incident (Meter removal or reinstall) | **55 + repair costs** | **$50.00** | 10% | **+ repair costs** | | | 0.25 | | | 0.5 | 0.1 | | | 0.25 | | $2 | $54.29 |
| Second and Subsequent (Plus applicable civil code violations) | **255 + repair costs** | **$250.00** | 2% | **+ repair costs** | | | 0.25 | | | 0.5 | 0.1 | | | 0.25 | | $2 | $54.29 |
| Wasteful Use Fee (non-compliance related) | **3 x highest** | | 0% | **2 x Highest Tiered Consumption Charge, Ordinance 2015-01 provides for additional citations and fees** | | | | 0.1 | | | | | | | | $2 | $5.57 |
| Work Orders | **No Change** | | 0% | **Estimated LEMO* Deposit** | | | | | | | | | | | | | $0.00 |
| Backflow Fees | | | | | | | | | | | | | | | | | |
| Annual Testing | **No Change** | **$40.00** | 0% | | | | | 0.12 | | 0.25 | 0.12 | | | 0.25 | 1 | $2 | $37.31 |
| Re-Testing | **No Change** | **$40.00** | 0% | | | | | 0.12 | | 0.25 | 0.12 | | | 0.25 | 1 | $2 | $37.31 |
| | | | | | | | | | | | | | | | | | |
| **Administrative Fees:** | | | | | | | | | | | | | | | | | |
| Legal Document Preparation (plus recording fees) | **$ 130.00** | **$50.00** | 160% | **+ Engineering & Legal** | 1 | | | | | | | | 0.5 | | | | $127.46 |
| Duplication Services: | | | | | | | | | | | | | | | | | |
| Audiotapes (each) | **No Change** | **$5.00** | 0% | **+ $1 / event** | | | | | | | | | | | | | $0.00 |
| Digital Copies (Cost of Disk and per Document) | **No Change** | **$5.00** | 0% | **+ $1 / file** | | | | | | | | | | | | | $0.00 |
| Electronic Copies * | **No Change** | **$1.00** | 0% | **per file** | | | | | | | | | | | | | $0.00 |
| to 11x17) | **No Change** | **$0.20** | 0% | | | | | | | | | | | | | | $0.00 |
| to 11x17) | **No Change** | **$1.20** | 0% | | | | | | | | | | | | | | $0.00 |
| Printing) | | | | | | | | | | | | | | | | | |
| Line work, < 10% Coverage * | **No Change** | | 0% | **$ 5.00 / file + $1 / sq. ft. paper** | | | | | | | | | | | | | $0.00 |
| Areas > 10% Coverage * | **No Change** | | 0% | **$ 5.00 / file + $2 / sq. ft. paper** | | | | | | | | | | | | | $0.00 |
| Engineering Drawings & Maps* (Digital Copies) | **No Change** | **$5.00** | 0% | **+ $1 / file** | | | | | | | | | | | | | $0.00 |
| * Existing Files – Ready to Print | **No Change** | | | | | | | | | | | | | | | | |
| Bid Documents | **No Change** | **Regular Copy F** | 0% | | | | | | | | | | | | | | $0.00 |
| District Specifications | **No Change** | **Download-NC/R** | 0% | | | | | | | | | | | | | | $0.00 |
| Faxes | **No Change** | **$1.00** | 0% | | | | | | | | | | | | | | $0.00 |
| District Equipment Charges | **No Change** | **Separate Sched** | 0% | | | | | | | | | | | | | | $0.00 |
| District Overhead Charges | | | | | | | | | | | | | | | | | $0.00 |
| Labor | **No Change** | **Actual** | 0% | | | | | | | | | | | | | | $0.00 |
| General | **No Change** | **100% of Labor C** | 0% | | | | | | | | | | | | | | $0.00 |
| | | | | | | | | | | | | | | | | | |
| **Engineering Fees:** | **No Change** | | 0% | | | | | | | | | | | | | | $0.00 |
| Planning Review Fee, Parcel Maps & Other | **$ 185.00** | **$100.00** | 85% | | 1 | | | 0.25 | | | | | 1 | | | | $185.34 |
| Planning Review Fee, Subdivision Maps | **$ 330.00** | **$250.00** | 32% | | 1 | | | 0.25 | | | | | 2.5 | | | | $332.22 |
| **LEMO stand for Labor, Equipment, Materials & Overhead* | | | | | | | | | | | | | | | | | |

PARADISE IRRIGATION DISTRICT
ORDINANCE NO. 2015-01

AN ORDINANCE ADOPTING ENFORCEMENT PROCEDURES AND FINES AND PENALTIES FOR WATER CONSERVATION MEASURES

WHEREAS, Governor Brown on April 1, 2015, issued Executive Order B-29-15 which includes in paragraph 2 a mandate that the State Water Resources Control Board impose a reduction in potable water usage through February 28, 2016, to achieve a statewide 25% water savings; and

WHEREAS, the State Water Resources Control Board on May 5, 2015, adopted emergency regulations setting forth, among other items, mandatory end-user conservation measures and a requirement that the Paradise Irrigation District ("District") reduce its total potable water production by 36% beginning June 1, 2015, through February 2016 as compared to the same months in 2013; and

WHEREAS, in order to implement these mandates, the District adopted Resolution No. 2015-04 Amending and Readopting a Water Conservation Program ("Water Conservation Program") on May 20, 2015, a true and correct copy of which is attached as Exhibit A and incorporated herein by this reference; and

WHEREAS, the District maintains policies and rules and regulations concerning water use within the District and incorporates the current versions of the District's policies and rules and regulations herein by this reference; and

WHEREAS, pursuant to Water Code §§ 375 et seq. and Government Code § 53069.4, the District is empowered to implement conservation measures, to conduct enforcement proceedings, and to impose fines and penalties for violations; and

WHEREAS, the District finds that sanctions, including fines and penalties for excessive water use, are reasonable and are necessary to deter customers from taking excess water from District supplies or engaging in wasteful or prohibited water use practices; and

WHEREAS, the Board of Directors of Paradise Irrigation District finds and determines, as set forth in detail below, that this Ordinance is necessary to comply with state conservation mandates and to strengthen enforcement of the District's Water Conservation Program, the District's policies, and its rules and regulations.

NOW, THEREFORE, the Board of Directors of Paradise Irrigation District does hereby ordain as follows:

1. Applicability.
    a. This ordinance provides for administrative citations which are in addition to all other legal remedies, criminal or civil, which may be pursued by the District.
    b. The administrative citation process set forth in this ordinance applies to all violations of:
        i. The Water Conservation Program;
        ii. The District's policies as currently written or hereafter duly adopted or revised by the Board of Directors; and/or

iii. The District's rules and regulations as currently written or hereafter duly adopted or revised by the Board of Directors.

c. The use of this Ordinance shall be at the sole discretion of the District.

2. Definitions. For purposes of this Ordinance:

a. "Compliance Officer" shall mean any District employee or agent of the District with the authority delegated by the General Manager to enforce any provision of this Ordinance; and

b. "Hearing Officer" shall mean the Chief Financial Officer, or persons appointed by the District's General Manager, including the General Manager himself, that presides over an administrative hearing provided for in this Ordinance.

3. Administrative Citation.

a. Whenever a Compliance Officer determines that a violation of this Ordinance has occurred, the Compliance Officer shall have the authority to issue an administrative citation to any person responsible for the violation.

b. Each administrative citation shall contain the following information:

i. The date of the violation(s);
ii. The address or a specific description of the location where the violation(s) occurred;
iii. The section(s), as applicable, of the Water Conservation Program, policies, and rules and regulations violated and a description of the violation(s);
iv. The amount of the fine for the violation(s);
v. A description of the fine payment process, including a description of the time within which and the place to which the fine shall be paid;
vi. An order prohibiting the continuation or repeated occurrence of the violation(s) described in the administrative citation;
vii. A description of the administrative citation review process, including the time within which the administrative citation may be contested by submitting a request for a hearing form;
viii. The name and signature of the citing Compliance Officer; and
ix. A statement that a failure to appeal shall constitute a failure to exhaust administrative remedies and result in the citation becoming a final administrative enforcement order.

4. Administrative Citation Fines.

a. Except in cases where the violation or violations, in the judgment of the Compliance Officer, pose an immediate threat to health and safety, the District will utilize the

following progressively more stringent enforcement procedure in issuing administrative citations:

i. First administrative citation: written warning. Whenever a Compliance Officer determines that a violation has occurred, the Compliance Officer may issue a warning of administrative citation to any person responsible for the violation. Service of a written warning shall be a prerequisite to the issuance of further administrative citations with attendant financial penalties. In addition to the information set forth in Section 3.b., and if applicable, the warning shall specify a time and date by which the violation shall be corrected, after which a second administrative citation may be issued if the violation is not fully corrected. The Compliance Officer shall provide for a reasonable amount of time to correct the violation after considering the circumstances of the case, except that at least 24 hours shall be allowed for from the time and date of the warning. A warning shall not be required before the issuance of a second or any subsequent administrative citation for a continuing or repeated violation.

ii. Second administrative citation within any twelve (12) month period: one hundred dollars ($100.00) for each violation cited.

iii. Third administrative citation within any twelve (12) month period: two hundred dollars ($200.00) for each violation cited.

iv. Fourth administrative citation within any twelve (12) month period: five hundred dollars ($500.00) for each violation cited.

v. Fifth and succeeding administrative citation within any twelve (12) month period: the District may resort to any and all available legal remedies, including without limitation, suspending or reducing deliveries to the property and referring the matter to the Butte County District Attorney's office.

b. Each day or portion thereof during which a violation is committed, continued, or permitted, is a separate and distinct violation for which an administrative citation may be issued. Each violation constitutes a separate offense for which a separate penalty may be imposed. The fine amounts shall be cumulative where multiple citations are issued and the aggregate amount will be set forth in the administrative citation.

c. Payment of the fine(s) shall not excuse the failure to correct the violation(s), nor shall it bar further enforcement action by the District.

d. Fines imposed on any person under the second administrative citation stage will be reimbursed by the District if the person receiving the citation attends a one (1) hour water conservation course offered by the District. Attendance and receipt of a refund will not relieve the person from any additional administrative citations and fines for subsequent violation(s) of this Ordinance.

5. Payment of the Fine(s).

   a. All fine(s) assessed shall be payable to the District unless otherwise directed on the citation. Payment must be made within thirty (30) days from the date of the administrative citation.

   b. Any fine paid shall be refunded in accordance with Section 7.g.ii., if it is determined after a hearing or appeal, the person charged with the administrative citation was not responsible for the violation, or that there was no violation as charged in the administrative citation.

   c. Payment of fines under this Ordinance shall not excuse or discharge any continuation or repeated occurrence of the violation that is the subject of the administrative citation.

   d. Any person who fails to pay the District any fine imposed pursuant to this Ordinance on or before the date that fine is due, shall also be liable for the payment of a late payment charge of 10% of administrative citation fine quantity. .

6. Hearing Request.

   a. Any recipient of an administrative citation in which fines are imposed may contest that there was a violation of this Ordinance or that the recipient is the responsible party, by completing a request for hearing form and returning it to the District office within thirty (30) days from the date of the administrative citation, together with an advance deposit of the fine(s).

   b. A request for hearing form may be obtained from the District's office, 6332 Clark Road, Paradise CA.

   c. The person requesting the hearing shall be notified of the time and place set for the hearing at least ten (10) days prior to the date of the hearing.

   d. If the Compliance Officer submits an additional written report concerning the administrative citations to the Hearing Officer for consideration at the hearing, then a copy of this report shall also be served on the person requesting the hearing at least five (5) days prior to the date of the hearing.

7. Hearing Procedure.

   a. No hearing to contest an administrative citation before a Hearing Officer shall be held unless the fine(s) has been deposited with the District in advance.

   b. A hearing before the Hearing Officer shall be set for a date that is not less than fifteen (15) days and not more than sixty (60) days from the date that the request for hearing is filed in accordance with the provisions of this Ordinance.

   c. At the hearing, the party contesting the administrative citation shall be given the opportunity to testify and to present evidence concerning the administrative citation.

d. The failure of any party contesting the administrative citation to appear at the hearing shall constitute a forfeiture of the fine and a failure to exhaust administrative remedies.

e. The administrative citation and any additional report submitted by the Compliance Officer, if compliant with Section 3.b., shall constitute prima facie evidence of a violation of this Ordinance.

f. The Hearing Officer shall be a disinterested employee, agent or consultant of the District. The employment, performance evaluation, compensation and benefits of the Hearing Officer shall not be directly or indirectly conditioned upon the amount of administrative citation fines upheld by the Hearing Officer.

g. Decision of the Hearing Officer:

   i. After considering all the testimony and evidence submitted at the hearing, the Hearing Officer shall issue a written decision to uphold or cancel the administrative citation and shall list in the decision, the reasons for that decision.
   ii. If the Hearing Officer decides to cancel the administrative citation, the District shall promptly refund the amount of the deposited fine.
   iii. The person receiving the administrative citation shall be served with a copy of the Hearing Officer's written decision.
   iv. For purposes of the Ordinance, service is accomplished by either personal delivery or deposit in the United States Mail in a sealed envelope sent first class, postage prepaid, addressed to the person to be notified at the mailing address for the person as set forth in the District's files, or such other address as provided by the person receiving notice.

h. Appeal of Hearing Officer's Decision to Board of Directors:

   i. If the Hearing Officer upholds the imposition of the administrative citation, the person aggrieved by the administrative citation may appeal the Hearing Officer's decision to the Board of Directors of the District.
   ii. A request for appeal to the Board of Directors must be made in writing to the District within ten (10) days of service of the Hearing Officer's decision. If an appeal to the Board of Directors is not timely received, the decision of the Hearing Officer shall be final. Timely appeal to the Board of Directors is a prerequisite to seeking judicial review under Section 8; failure to timely appeal to the Board of Directors constitutes a failure to exhaust administrative remedies.
   iii. Timely appeal requests will be considered by the Board at its next regularly scheduled board meeting.
   iv. The failure of any party appealing the Hearing Officer's decision to appear at the appeal shall constitute a denial of the appeal, forfeiture of the fine, and a failure to exhaust administrative remedies.

v. After considering the Hearing Officer's decision, evidence, testimony of the appealing party, and any public comments, the Board of Directors will make a decision, by motion and majority vote, to grant or deny the appeal.

8. Right to Judicial Review. Any person aggrieved by the Board of Directors' decision to uphold the administrative decision of a Hearing Officer on an administrative citation, may obtain review of the decision by filing a petition for review within the Butte County Superior Court in accordance with the timeliness and provisions set forth in Government Code section 53069.4.

9. Recovery of Administrative Citations Fines and Costs. The District may collect any past due administrative citation fines or late payment charges by any or all available legal means.

PASSED AND ADOPTED this 17th day of June, 2015 by the following vote at a regular meeting of the Board of Directors.

| | |
|---|---|
| AYES: | Directors Sep Carola, Larry Duncan, Doug Flesher and Ken Hunt |
| NOES: | Director Bill Kellogg |
| ABSTAINED: | None |
| ABSENT: | None |

PARADISE IRRIGATION DISTRICT

Kenneth G. Hunt, President

ATTEST:

Georgeanna Borrayo, Secretary

"Paradise Irrigation District (PID) is dedicated to the business of producing and delivering a safe, dependable supply of quality water in an efficient, cost effective manner with service that meets or exceeds the expectation of our customers."

DATE: September 20, 2023

TO: PID Board of Directors

FROM: Tom Lando, District Manager
Mickey Rich, Assistant District Manager

RE: Continued: Approval of Memorandum of Understanding between PID and the BCFSC

Staff, the Admin and Personnel Committee, and Butte County Fire Safe Council (BCFSC) have considerately made changes to our existing Memorandum of Understanding (MOU) between our two agencies. The MOU creates guidelines that allow the BCFSC to create fuelbreaks on PID lands that benefit our local communities. The MOU is a requirement for the BCFSC to obtain the funding that makes the fuelbreak work possible.

The recent changes to the MOU allow for the following:

- Encourages better communication and planning.
- Includes approved treatment types.
- Includes annual reports to the Board.
- Allows for the MOU to be reviewed and readopted every five years.
- Adds PID oversight and approval for treatment plans and public communication.
- Supersedes any prior MOUs with the BCFSC

"I move to approve the Forest Health Work Memorandum of Understanding between PID and the Butte County Fire Safe Council."

# MEMORANDUM OF UNDERSTANDING

## Butte County Fire Safe Council
## And
## Paradise Irrigation District
Forest Health Projects

This **Memorandum of Understanding (MOU)** sets forth the terms of a working relationship between the Butte County Fire Safe Council (BCFSC) and Paradise Irrigation District (PID) to implement Forest Health projects that improve forest health, reduce hazardous fuels, or enhance water quality.

WHEREAS, PID owns forest land between lower Paradise to North of Paradise Lake, with the specific project area shown on the attached Exhibit "A", hereinafter referred to as "Property".

WHEREAS, BCFSC has funds and intends to seek additional funding for Forest Health on PID property by applying for grants and other funding opportunities.

WHEREAS, the scope of this MOU is limited to available funding secured by BCFSC for use on PID property.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby stipulated, the parties agree as follows:

**Project Description:**

Improve Forest health and reduce hazardous fuels on PID Property. The project will restore Little Butte Creeks watershed health by enhancing the forest ecosystem and watershed protection by thinning densely overstocked trees and brush. The project will include treatments from replanting to mature stand management.

**Project Goals:**

1. Restore and maintain a healthy forest structure in Little Butte Creek watershed to increase resilience against catastrophic fire events.
2. Protect drinking water supplies to the Town of Paradise.
3. Improve the probability that fires developing in the community of Magalia can be contained in the initial attack phase and will not damage surrounding lands including US Forest Service, private industrial, private non-industrial and residential areas.

PID shall:

1. Allow the BCFSC and their subcontractors to access the Property to conduct

fuels reduction, monitoring, planning, follow up work and other aspects of the project with prior notice to PID.
2. Allow Sierra Nevada Conservancy (SNC) to access the Property for monitoring purposes only.
3. Participate in project planning and provide oversight on PID property.

4. Provide up to $500 in matching funds for grant applications if available.
5. Participate in collaboration meetings as needed.

BCFSC shall:

1. Maintain all financial records
2. Act as the lead agency for all environmental compliance work, including but not limited to CEQA.
3. BCFSC, utilizing sub-contractors, will reduce fire hazardous fuels with pile burning, grazing, mastication, hazardous tree removal, and chipping.
4. Monitor the projects with field surveys.
5. Provide education through community involvement, educational newsletters, and an online story map.
6. Collaborate in fire safe community events such as Adopt a Forest, Paradise Grazing Festival, Wildfire Safety Summit, Forest Health Tours, and other community engagement events.

7. Manage land utilizing standard treatment objectives based on prescriptions outlined in the Magalia Forest Management Plan (Exhibit C). These prescriptions are subject to change based on best available science.
8. Shall not use prescribed burning or herbicide on Property without written authorization from PID.

9. Administer all subcontracts for services and materials as the Project requires in compliance with applicable laws, including but not limited to prevailing wage.
10. Prepare reports required by grants.
11. Ensure compliance with grant requirements.
12. Prepare Request for Advance/Reimbursement for grants.
13. Make monthly disbursements based on invoices from contractors and sub- contractors in compliance with applicable laws, including but not limited to prevailing wage.
14. Provide an annual report to PID forest health activities in spring of each year.
15. Obtain prior approval from PID on all workplans and communication plans on PID property.
16. Invite PID to participate in events and outreach as appropriate.
17. BCFSC will provide annual progress reports to PID.

Indemnification:

BCFSC shall indemnify and hold the PID, its agents and employees harmless against liability, loss, actions, or claims for injury to person or damage to property, including environmental damage and associated costs of restoration, fines, and penalties,

(collectively, "Claims") arising out of or relating to the work that is the subject of this Agreement, except to the extent caused by the active negligence or willful misconduct of the PID. This indemnity obligation shall extend to Claims by BCFSC's own employees. This indemnity obligation shall cover the costs incurred by the PID in defending against Claims, including its reasonable attorney fees.

PID shall indemnify and hold the BCFSC and its agents and employees harmless against liability, loss, actions, or claims for injury to person or damage to property, including environmental damage and associated costs of restoration, fines, and penalties, (collectively, "Claims") arising out of or relating to the work that is the subject of this Agreement, except to the extent caused by the active negligence or willful misconduct of the BCFSC. This indemnity obligation shall extend to Claims by the PlD's employees. This indemnity obligation shall cover the costs incurred by the BCFSC in defending against Claims, including its reasonable attorney fees.

Insurance:

BCFSC shall procure and maintain the insurance coverage as set forth in Exhibit "B", attached herewith, and shall provide a Certificate of Insurance to PID within 14 days of execution of this Agreement, naming PID as Additional Insured, for the term of this Agreement.

Term:

The term of this MOU is through the calendar year 2028, unless terminated earlier as set forth below. This MOU supersedes any previous versions of this agreement.

Amendments:

This MOU may be amended with the written approval of PID, and BCFSC.

Termination:

Either party upon the giving of thirty (30) day's advance written notice may terminate this MOU.

Date: **Butte County Fire Safe Council:**

By: _____
Darrel Wilson - Chair

Date: **Paradise Irrigation District:**

By: _____
Shelby Boston – President

Exhibit “A”

PID Property

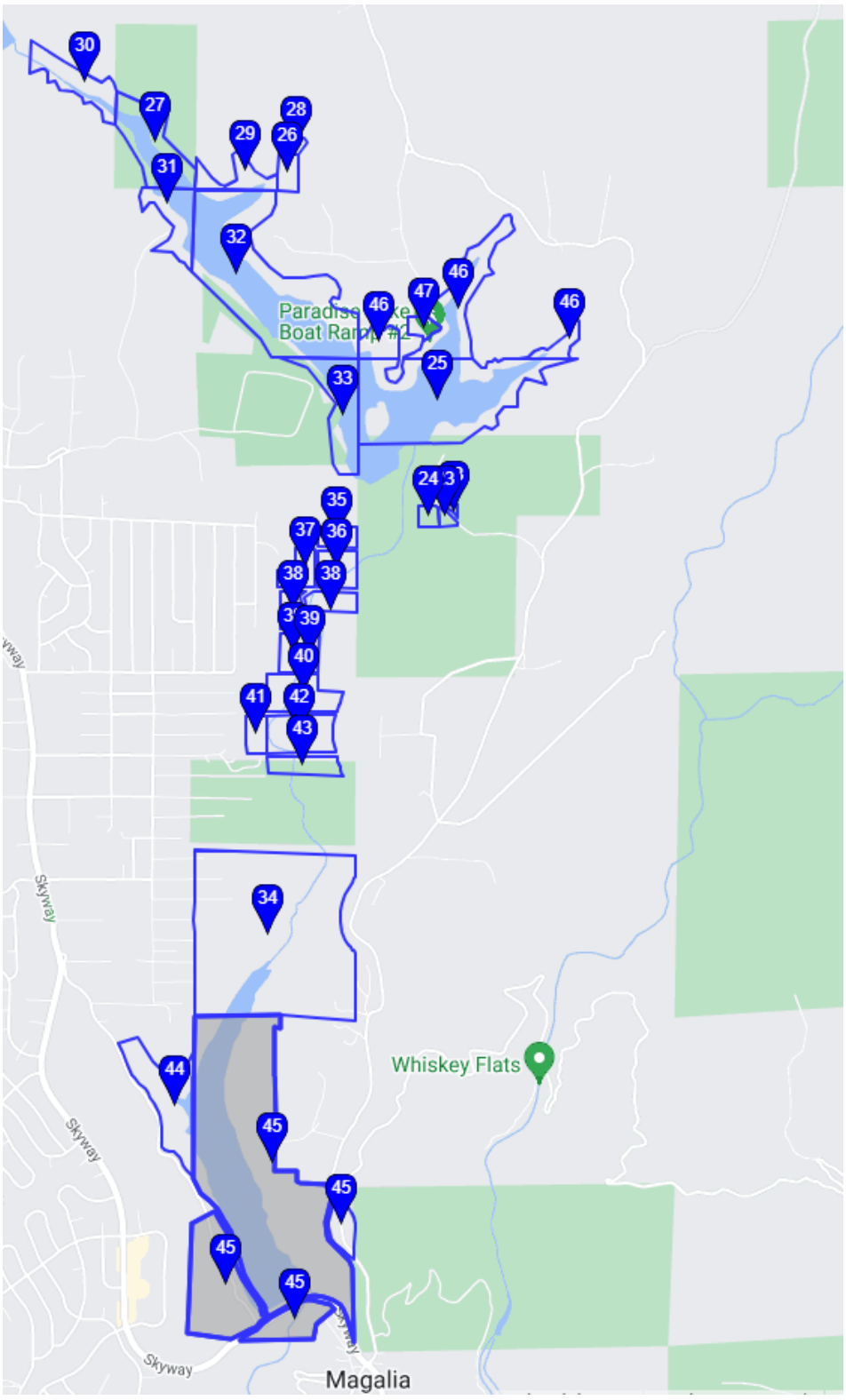


Exhibit B

## Insurance Requirements

a) By his/her signature hereunder, Consultant certifies that he/she is aware of the provisions of Section 3700 of the Labor Code which requires every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and he/she will comply with such provisions before commencing the performance of the work of this agreement. Consultant and subconsultants will keep workers' compensation insurance for their employees in effect during all work covered by this agreement.

b) Consultant will file with the Paradise Irrigation District before beginning work, certificates of insurance and policy endorsements satisfactory to the Paradise Irrigation District evidencing general liability coverage, of not less than $1,000,000 per occurrence ($2,000,000 general and products-completed operations aggregate (if used)) for bodily injury, personal injury and property damage; auto liability of at least $1,000,000 for bodily injury and property damage each accident limit; workers' compensation (statutory limits) and employer's liability ($1,000,000) (if applicable); requiring 30 days (10 days for non-payment of premium) notice of cancellation to the Paradise Irrigation District. Such insurance shall be primary and any insurance, self-insurance or other coverage maintained by the Paradise Irrigation District, its directors, officers, employees, or authorized volunteers shall not contribute to it. The general liability coverage shall give the Paradise Irrigation District, its directors, officers, employees, and authorized volunteers insured status using ISO endorsement CG2010, CG2033, or equivalent. Coverage is to be placed with a carrier with an A.M. Best rating of no less than A-:VII, or equivalent, or as otherwise approved by the Paradise Irrigation District. In the event that the Consultant employs other consultants (sub-consultants) as part of the work covered by this agreement, it shall be the Consultant's responsibility to require and confirm that each sub-consultant meets the minimum insurance requirements specified above. Consultant agrees to waive subrogation which any insurer may acquire by virtue of payment of any loss. Consultant shall obtain any endorsement necessary to affect this waiver of subrogation.

c) Consultant shall maintain errors and omissions liability insurance appropriate to the Consultant's profession of no less than $1,000,000 per claim and aggregate for this project.

d) Insurance must be maintained for at least five years after completion of contract work.

If any of the required coverages expire during the term of this agreement, the Consultant shall deliver the renewal certificate(s) including the general liability additional insured endorsement to the Paradise Irrigation District at least ten (10) days prior to the expiration date.

Signature of Consultant's Authorized Official:

By: _____ Date: _____

Name and Title of Consultant's Authorized Official:

_____

Exhibit C

Magalia Forest Health Plan

Paradise Irrigation District
6332 Clark Rd, Paradise, CA 95969 · 530-877-4971 · Fax: 530-876-0483 · www.pidwater.com

"Paradise Irrigation District (PID) is dedicated to the business of producing and delivering a safe, dependable supply of quality water in an efficient, cost effective manner with service that meets or exceeds the expectation of our customers." Please consider how this agenda item relates to our mission

**TO:** **Board of Directors**

**FROM:** **Mark Cavalli, District Maintenance Person**
**PID Transmission & Distribution Dept.**

**DATE:** **September 12, 2023**

**RE:** **PID Electronic Sign**
**09/20/2023 Board of Directors Meeting**

Paradise Irrigation District is looking to upgrade the street-front sign that is currently located outside of the Main Office on Clark Road. Visual Impact signs has provided the attached mock-up and quote for a double-sided electronic sign that includes an illuminated PID logo, and an almost endless possibility software system to display messages, important notices, updates, etc.

| **Visual Impact Signs** | **Cost** |
|---|---|
| Fabrication and installation of electronic message board according to approved artwork. Includes engineering fees, permit procurement and permit fees. | $97,507.71 |

**Electrical is left blank on the quote because there is already power ran to the current sign.*

The attached electronic sign was quoted at the largest size possible with the shown dimensions, framework and rock selection. With finalizing small details, the price may be greatly reduced.

We are seeking the input of the PID Board of Directors for alternative style, color, size, etc. so that a more finalized quote may be put together for your review and requested approval at a future Board meeting.


**OPTION 1**
D/F Monument Sign





| CUSTOMER | PROJECT DESCRIPTION | DATE |
|---|---|---|
| Paradise Irrigation Dist.<br>6332 Clark Road<br>Paradise, CA 95969 | Electronic Message Board | 9.7.2023 |

☑ PROOF
☐ FINAL
☐ PERMIT
☐ PRODUCTION

☐ APPROVED AS IS
☐ APPROVED WITH CHANGES NOTED
☐ REVISE AND SEND NEW PROOF
SIGNED:_____
DATE:_____

Visual Impact SIGNS™
326 B STREET • YUBA CITY, CA 95991 • CCL #951979 • PH 530.755.9996 • FAX 530.671.1236

326 B Street • Yuba City, CA 95991 • Ph (530) 755-9996 • Lic. No. 951979

*Quotes good for 30 days from proposal date.*

## PROPOSAL AND SECURITY AGREEMENT

**SUBMITTED TO:**
Paradise Irrigation District
Mark Cavalli
6332 Clark Road
Paradise, CA 95969

mcavalli@paradiseirrigation.com
530-519-6628

**Date** 9/7/2023

**BY:** Adel Mitchell-Miles

JOB LOCATION (if different) :
Same

| GENERAL DESCRIPTION: | | EACH | EXTENDED |
|---|---|---|---|
| Remove and dispose of existing sign. Sawcut / unbolt at base, leave concrete. | 1 | $660.00 | $660.00 |
| OPTION 1: Fabricate and install one double sided 50.4" x 151.2" electronic message board sign according to approved artwork. $88,450 | 1 | $88,450.00 | $88,450.00 |
| OPTION 2: $91,850 | | | |
| **Electrical - TBD.** | | | |
| **Engineering Fees** - Estimated engineering fee. Actual fees are determined by engineer and will be adjusted on final billing. | 1 | $500.00 | $500.00 |
| **Permit Procurement** - Permit drawings and permit submittal to City County. Includes submitting to planning & building departments. (Variances, additional city/county requirements and design changes to be billed separately as a change order.) | 1 | $200.00 | $200.00 |
| **Permit Fees** - Estimated permit fee. Actual fees are determined by City / County and will be adjusted on final billing. | 1 | $1,850.00 | $1,850.00 |

- PRICE BASED ON DIMENSIONS NOTED. CHANGE ORDERS MAY APPLY IF DIMENSIONS VARY.
- LANDLORD APPROVAL IS THE RESPONSIBILITY OF THE PURCHASER
- ELECTRICAL SERVICE TO SIGN LOCATION(S) WILL BE CUSTOMERS RESPONSIBILITY
- REBAR IN CONCRETE WALLS CAUSING EXCESSIVE DRILLING TIME IS NOT INCLUDED
- CALICHE OR OTHER OBSTRUCTIONS IN GROUND CAUSING EXCESSIVE DRILLING TIME IS NOT INCLUDED
  OBSTRUCTIONS / INABILITY TO ACCESS ELECTRICAL WILL BE ADDRESSED AS A CHANGE ORDER.
- PERMIT FEES, ENGINEERING FEES, CERTIFIED INSPECTION FEES AND TIME TO OBTAIN
  ARE NOT INCLUDED IN CONTRACT AND WILL BE BILLED ACCORDINGLY
- CONTRACT PRICE IS SUBJECT TO CHANGE BASED UPON APPROVED ENGINEERING

Time is of the essence of this agreement. This proposal shall be deemed revoked by Visual Impact Signs unless accepted within 120 days by Customer. Upon acceptance by signature below, Customer hereby purchases and Visual Impact Signs hereby sells the SIGN herein described. Payment in full is due upon project completion. Project completion is defined as the date on which the SIGN is installed and working properly. Accounts 30 days overdue shall accrue interest at a rate of 1 1/2% per month (18% per annum) until paid in full. To secure payment of the purchase price herein and all other obligations of Customer to Visual Impact Signs arising from this or any other transaction, additions, accessions, replacements thereto, and proceeds, under the terms and conditions expressed herein and on the reverse side of this form.
Customer and Visual Impact Signs agree that regardless of the manner of affiliation, the SIGN shall remain personal property and not become part of the real estate. Conditional (installment) sale, lease or lease/sale terms and conditions shall be set forth in a written Addendum to this agreement and shall be effective as a modification of this agreement only if in writing signed by Visual Impact Signs and Customer. No oral agreement shall be binding. Visual Impact Signs hereby guarantees workmanship and materials for a period of one year from date of completion, except that neon tubing and lamps are guaranteed for a period of 90 days from completion. Customer hereby warrants and represents that he has read, understands and agrees to be bound by the terms and conditions set forth

| | |
|---|---|
| . . . . . $ | $91,660.00 |
| TAX | $5,847.71 |
| **TOTAL** | $97,507.71 |
| 50% DEPOSIT | $48,753.85 |
| **BALANCE** Due Upon Completion | $48,753.85 |

ACCEPTED FOR VISUAL IMPACT SIGNS (SECURED PARTY):

Adel Mitchell-Miles — Title: No.Cal. Sign Sales / Pres.

Signature: — Date: 9/7/2023

PURCHASE ACCEPTED (DEBTOR):

(Owner/Authorized Agent) — Title:

Signature: — Date:

Paradise Irrigation District
6332 Clark Rd, Paradise, CA 95969 · 530-877-4971 · Fax: 530-876-0483 · www.pidwater.com

"Paradise Irrigation District (PID) is dedicated to the business of producing and delivering a safe, dependable supply of quality water in an efficient, cost effective manner with service that meets or exceeds the expectation of our customers." Please consider how this agenda item relates to our mission

**TO:** **Board of Directors**

**FROM:** **Mark Cavalli, District Maintenance Person**
**PID Transmission & Distribution Dept.**

**DATE:** **September 12, 2023**

**RE:** **HVAC Upgrades for PID Main Office**
**09/20/2023 Board of Directors Meeting**

The existing large condenser unit for the PID Main Office is over 20 years old and the freon for this type of unit is starting to be phased out. Additionally, each summer, a service call must be made for this unit to keep it going. The quote also includes upgrading a component in the furnace for heat side of things and adding heat and air to two locations that currently do not have it: Tom's office and the storage room.

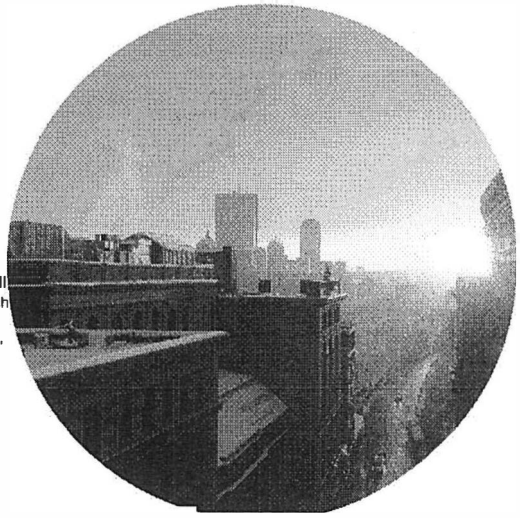
| **All Around Heating and Air** | **Cost** |
|---|---|
| GE 5-ton 14.5 seer R410-A freon Condensor and Evap Coil with a GE 5-ton 96% Natural Gas Furnace | $15,689.00 |

The following motion is recommended:

"I move to approve the upgrade of PID's Main Office HVAC system in the amount of $15,689.00 by All Around Heating and Air.

# Proposal

## * All Around Heating and Air *



## HVAC Proposal

I/We the owners (BUYER) of the premises described below, authorize All Around Heating, Air & Solar Construction to furnish and install all materials and labor necessary to improve the premises located at the above address. According to the following specifications which are subject to the conditions of the premises
and providing said installations and improvements are able to be provided according to, and within, State, County, and City Laws, Codes, and Ordinance having jurisdiction.

**GE 5-ton 14.5 seer R410-A freon Condenser and Evap Coil with a GE 5-ton 96% Natural Gas Furnace**

Removal and disposal of the existing system and pro-flush the line set.Installation of the new furnace, coil in the closet, and the new condenser outside. Connect to the existing gas, power, line set, and ductwork. Add a two-zone system to the unit connecting one zone to the existing ductwork and one zone to the new office area cutting in new boots, registers, and a new return.
Testing the system for proper operation, this includes permit and testing.

Equipment information:
Condenser M# NS17A60SA4 - Furnace M# NF95U110S5C - Coil M# NCHC51CT4

Warranty information:
Warranty only covers the cost of replacement parts; it does not cover shipping cost of replacement parts or labor cost to install replacement parts. Warranty valid to original purchaser.

12-year parts warranty. 2-year labor warranty on workmanship.

**Grand Total $15,689.00**

PARADISE IRRIGATION DISTRICT
6332 Clark Road, Paradise CA 95969 | Phone (530)877-4971 | Fax (530)876-0483

TO: Board of Directors

FROM: Blaine Allen

DATE: September 13, 2023

RE: Reservoir B Replacement Project Budget Amendment

**Background:**

In July of 2022, the Board authorized Staff to enter into a contract with Myers and Sons Construction, LLC for the construction of the Reservoir B Replacement Project. Myers and Sons were the low bidder for the project at $7,916,000.00. The authorization given included a 10% ($792,000) contingency. The project is entirely grant funded as a part of the State Water Resources Control Board (SWRCB) Additional Supplemental Appropriation for Disaster Relief (ASADRA) Drinking Water Construction Grant of $23,367,540 received by the District in July 2022.

Construction began on the project in September. Site clearing, tree removal, grading, earthwork, excavation for the subsurface soils preparation under the new tanks, subgrade engineered fill (aggregate base rock and geogrid installation), concrete placement of the tank foundations, pipeline replacement, and both tanks assembled have been the general work completed to date on the project.

Over the course of completing this work, some changes to the contract have occurred. A previous request for additional contingency in the amount of $730,000 was granted bringing the contract total to $9,438,000. There have been a few changes that require additional amounts of contingency funds before the completion of the project. With the project near completion, PID staff requests an additional $200,000 in contingency funds bringing the contract to $9,638,000. The overall project is approximately 86% complete with 4% of the $9.4M budget remaining.

However, there has been one major unforeseen site condition encountered during construction which necessitates a budget amendment. During all the excavations on the site, a significant amount of in-situ rock (volcanic basalt) has been encountered. There has been a total change order request of $1,478,870 for the in-situ rock so far, with more rock still being removed for final grade of the

site. The total contingency for this project up to this point is $1,522,000 which has been taken up primarily just by the rock excavation (97%).

The total revised project budget will be as follows:

| | |
|---|---|
| Original Project Budget | $ 7,916,000 |
| Original Contingency | $ 792,000 |
| First Additionally Contingency Request | $ 730,000 |
| Anticipated Additional Contract Contingency | $ 200,000 |
| Total | $ 9,638,000 |

Part of this contingency request, approximately $120,000 may not be covered by grant funding. It will be used to place road base on the land remaining around the tank sites so that vehicles may travel on this portion of land without being in the mud during the winter months. Currently there is only road base being placed directly around the tanks for maintenance and repairs of the tanks.

**The following is requested:**

*Authorize the District Manager to authorize $200,000 additional contingency funding for the Reservoir B Replacement Project. The project budget totaling $9,638,000 to be executed at the discretion of the District Manager or his designated representative as needed.*