STAFF REPORT FIELD OPERATIONS JULY 2018

TRANSMISSION & DISTRIBUTION

MAINTENANCE WORK.

- Crews have been taking care of leaks/maintenance issues.
- 17 Mainline leaks were repaired this month. 7 were leak detection leaks.
- 425 Firefly's were replaced this month.
- 3 service lines were repaired/replaced this month.
- 1 hydrant was repaired this month.
- 1 hydrant was installed this month.

PFD/PID JOINT PIPELINE PROJECTS

- Use hydrant surcharge funds to upgrade substandard mains.
- The Country Club project is now complete.
- Crestview/Crestwood project is in progress.

DEVELOPMENT PROJECTS

• None at this time.

CUSTOMER REIMBURSEMENT JOBS (by work order)

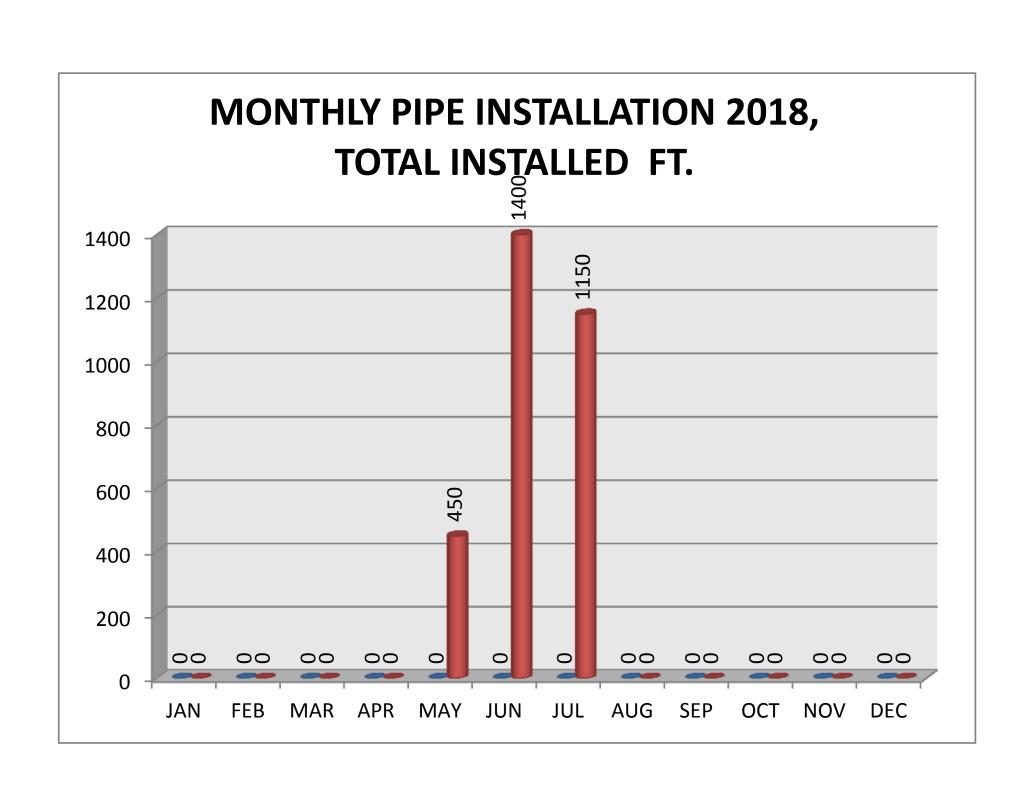
- 2 new mod 35 meters were installed for 5630 Scottwood Dr. (meter double new homes)
- Upgraded from 3/4" to 1.5" for 926 Buschmann Rd. (Future apartments)
- Permanent removal of 1.5" meter @ 6933 Skyway.
- Permanent removal of 1" meter @ 6933-5 Skyway.

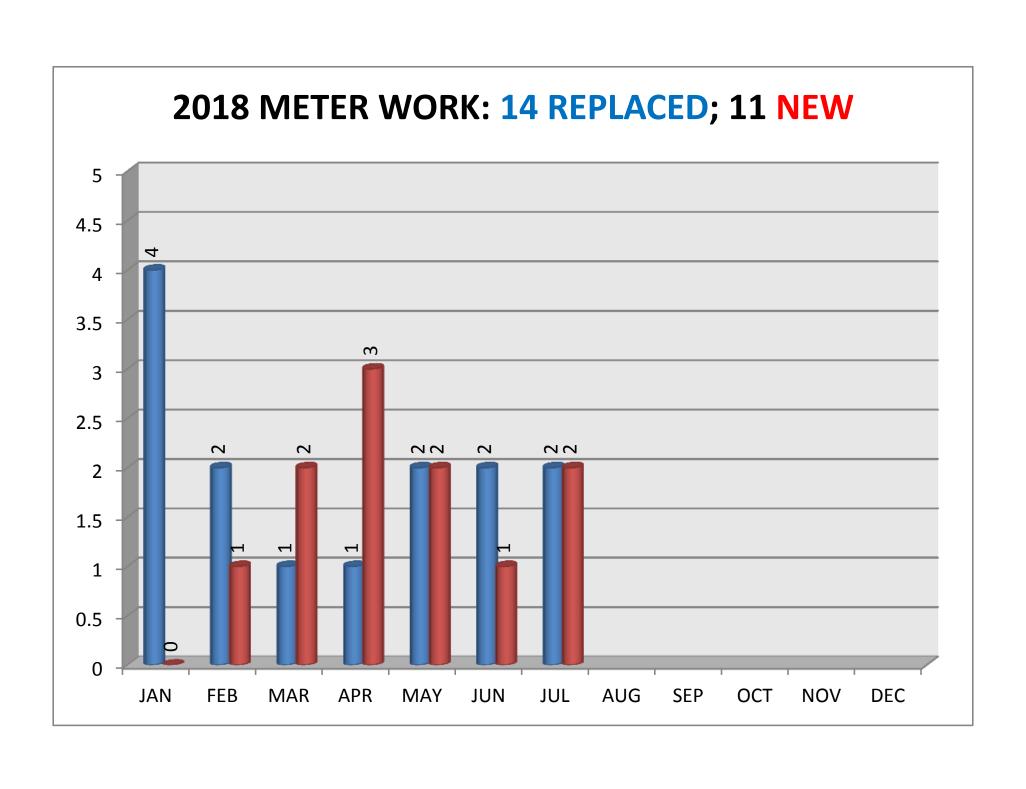
CRESTVIEW/CRESTWOOD PIPELINE PROJECT

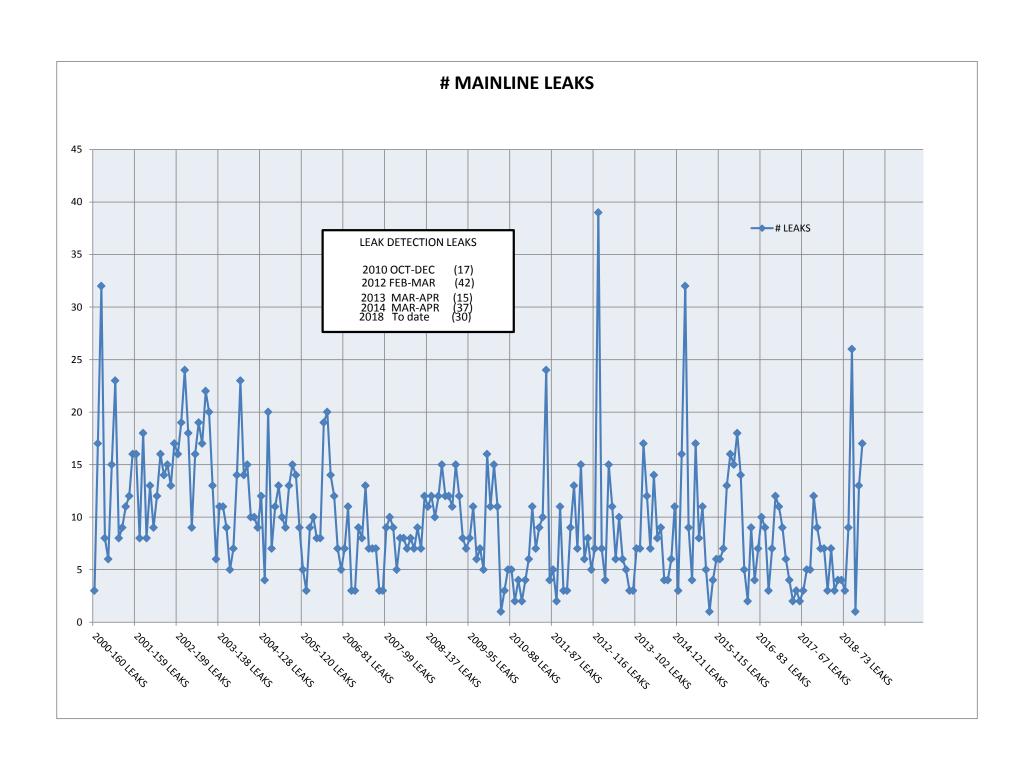
Project is in underway and going well.

SUMMARY

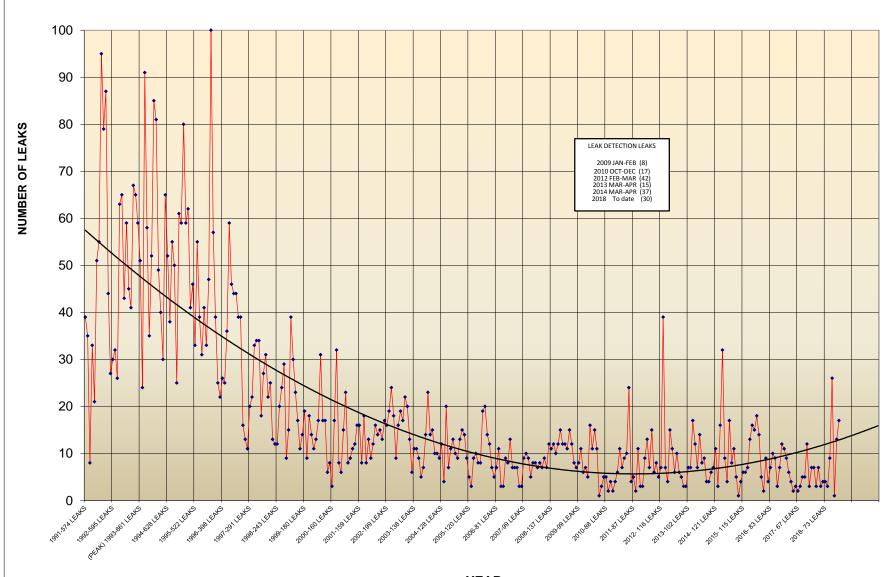
- The pipeline crew completed the installation of 3,000' of 8" pipe and hydrants by the end of July. Currently, the crews are installing service lines and once all customers are tied in to the new main, they will start the asphalt restoration process. Currently, most of our employees are concentrating their efforts on this project and will continue to do so until the project is complete. They have done an excellent job, especially with the extreme weather conditions/smoke.
- Leak Detection efforts continue as time allows for both finding leaks and going back out and making repairs. We try to "listen" 2 days a week; of course, this depends on work load and unforeseen issues/leaks that come up.
- We have 2 temporary laborers on board to assist with our current construction season and they are working out nicely.
- We are assisting the meter shop with the firefly replacements. Two of our utility workers
 are focusing on the change outs to insure our system is operating properly on a daily
 basis.
- We continue to take care of the daily needs of the District and maintenance issues providing excellent customer service.

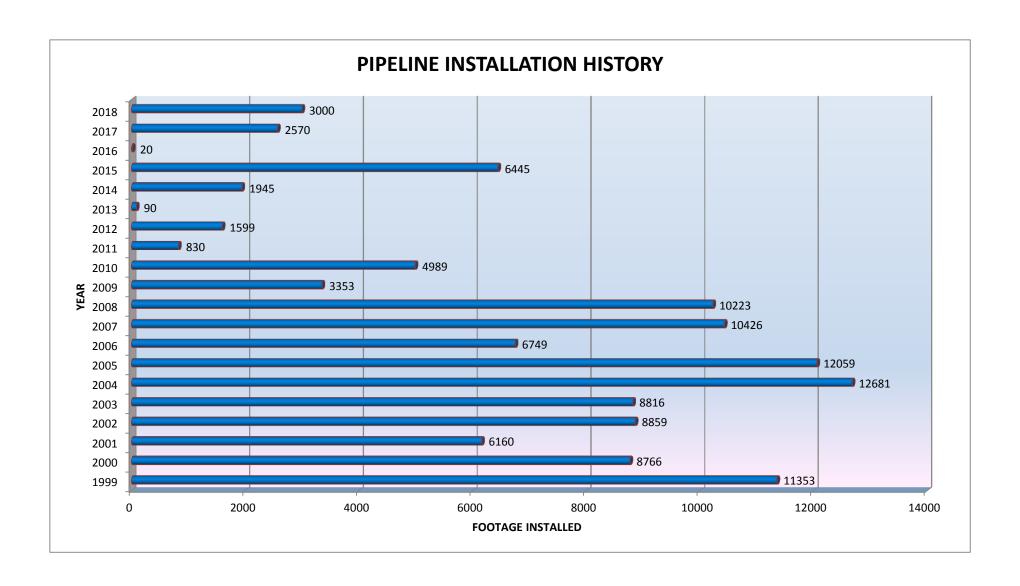


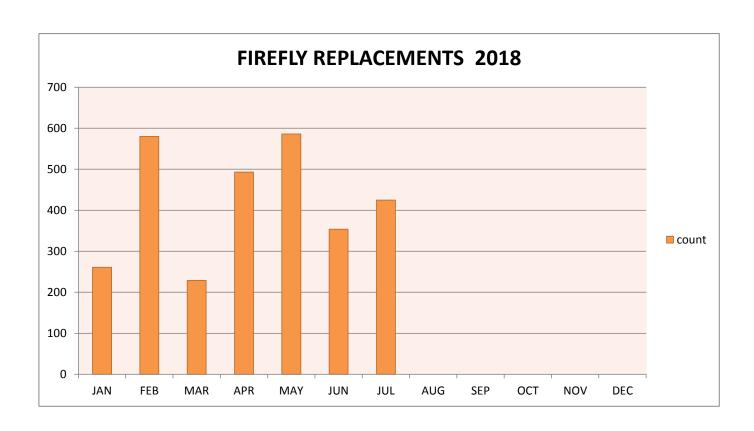




MONTHLY LEAK HISTORY 1991 TO PRESENT







| TYPE PIPE | FEET | MILES | % |
|-------------------------|----------------------|--------|--------|
| Asbestos Cement | 91375 | 17.31 | 10.0% |
| Ductile Iron | 2191 | 0.41 | 0.2% |
| C-900 PVC 4" to 12" | 281308 | 53.28 | 30.9% |
| Cast Iron | 1780 | 0.34 | 0.2% |
| Cement Mortar Lined | 175060 | 33.16 | 19.2% |
| Galvanized 1.5"- 2" | 13568 | 2.57 | 1.5% |
| PVC 1"-2" | 38482 | 7.29 | 4.2% |
| Steel 4"-12" | 300665 | 56.94 | 33.0% |
| C-905 14" & greater | 6288 | 1.19 | 0.7% |
| TOTAL PIPE | 910717 | 172.48 | 100.0% |
| Adjustments are made in | January of each year | | |

TREATMENT - STAFF REPORT July 2018

SUPPLY & QUALITY:

| (See Attached Graphs) | July 2018 | July 2017 | July 6 yr. Avg. | | |
|--|-----------|-----------|-----------------|--|--|
| Monthly Production (Million Gallons - MG) | 244.2 | 244.7 | 241.7 | | |
| | Ran | ge | Average | | |
| Plant Production (MGD) | 7.0 – | 8.7 | 7.9 | | |
| Raw Water Turbidity (NTU) | 0.35 - | 0.64 | 0.47 | | |
| Treated Water Turbidity (NTU) | 0.04 - | 0.05 | 0.04 | | |
| Treated Water Chlorine (ppm) | 0.79 – | 1.20 | 0.97 | | |

WATER TREATMENT:

- Plant Production and Water Quality: 1. Average production increased to 7.9 MGD from 6.7 MGD last month;
 2. Paradise Lake was primary source of raw water for treatment;
 3. Plant operating with three of three clarifiers and four of six filters.
- Monthly Residential Water Conservation: 25% reduction comparing production in July 2018 244.2 MG to July 2013 base year 327.5 MG. 256 gallons per day per capita (GPCD).
- <u>Emergency Response Planning (ERP)</u>: 1. Facilitated a FEMA Emergency Management Institute Dam Failure Table Top Exercise on July 18th with PID management; 2. Prepared an After-Action memo to document emergency response concerns; 3. Prepared a wildfire table top exercise for facilitation the end of August including outside participants from CalFire, town and county.
- Plant & Distribution Operations: 1. Meeting with Water Treatment Ad hoc Committee regarding reclassification of the Distribution System Operator position to a Water Quality Technician, discussion of an operator in training position/program, and a new plant mechanic position; 2. Meeting with Corrpro rescheduled to 8-23-18 to discuss cathodic protection system assessment for the 2.5 mile 42-inch transmission pipeline and the treatment plant; 3. Interior and exterior WTP LED lighting retrofit is completed; 4. Security fence fabricated by staff (Clint Stanley) and partially installed at Magalia Reservoir Bypass Diversion Structure materials cost less than \$500. Photos attached.
- Reservoir "B" Replacement; A Zone Pipeline & Pump Station: 1. See attached document titled "Project Components and Benefits dated July 26, 2018 prepared by Waterworks Engineers; 2. Stantec is effectively coordinating the CEQA documents with the SRF environmental review staff; 3. District was given the go ahead by SRF to circulate the environmental documents for review; 4. Addressing SDWSRF loan issues as they come up; and 5. Blackwater Engineering is evaluating options for obtaining an encroachment permit from the County for the construction of the Zone A transmission pipeline in new Skyway.
- Rehabilitation of C Tank and Cathodic Protection Improvements: Harper, staff and legal counsel are working on finalizing the Bid documents with new General and Supplementary Conditions. Project bidding is now planned for September.
- NPDES Permit Renewal Assistance: Staff submitted the following documents to the Regional Board regarding the Method of Compliance Workplan including: 1. Postponement and rescheduling the mixing zone verification monitoring (see attachment); 2. Low Level DCBM monitoring results with lab reports (see attachment without lab reports); and 3. Chronic Toxicity Results.
- NPDES Permit for Discharge to Magalia Reservoir: No violation this month. The last DCBM violation was October 6, 2016.
- Process Water Recycle Project (PWRP):
 - RFP Pond Alternative Design: Consideration of a project is dependent on outcome of NPDES permit renewal. Deferred WTP Improvements: Prepared a draft list of prioritized WTP projects with justification, description and cost estimate that were previously included in the PWRP.
 - <u>CWSRF Construction Loan Application</u>: Pending completion of design and CEQA; full design cost recovery is contingent on the construction of some type of a project.
- <u>CalOES/FEMA Mitigation Grant</u>: Information requests were provided to CalOES/FEMA; still waiting for a reply from CalOES regarding the status of the application, which includes mitigation for the plant generator and Zone A.

• <u>Drinking Water and NPDES Reports and Maintenance</u>: 1. Completed monthly sampling and reports; and 2. Miscellaneous repairs to aging equipment and routine instrument calibrations.

RECREATION:

- <u>Lake Activities:</u> 1. See attached Parking & Boating Permit Sales Chart & Table; new ADA picnic table was delivered to the Corp. Yard, the proposed location between the ADA parking and ADA restrooms. Work on the graphics for the display board is in process.
- <u>Boat Launch Ramp No. 1 Parking Improvements</u>: No progress during the month. Lake Committee will discuss the concept plan at the September meeting.
- <u>DBW North Lake Boat Launch Grant Termination</u>: DBW sent letter to District terminating the grant funding agreement (See attachment).

WATERSHED - SOURCE of SUPPLY: Monthly Rainfall = 0.0" during 0 days; Greatest Rain Day = 0.0"

| Paradise Lake Levels (feet) 2018 July 31 @ - 6.6' | 2018 June 30 @ - 2.6' | 2017 July 31 @ - 4.1' |
|---|-----------------------|-----------------------|
|---|-----------------------|-----------------------|

- Graph of Paradise Lake Water Levels Calendar Years 2013 2018: See Attachment
- <u>CalFire Service Crews:</u> No work this month; crews are tired up with CalFire priorities.
- Paradise Ridge Fire Safe Council: Meeting was canceled for the month
- <u>Prescribed Burning for Shaded Fuel Maintenance</u>: No progress yet to arrange a presentation to the Board this summer regarding prescribed "control" burn technology.

One side of Security Fence Installed at Magalia Reservoir Bypass Diversion Structure





Page **3** of **11**



Project Components and Benefits - The following tables summarize the interrelated hydraulic and capacity deficiencies addressed by each of the project components, and the associated and added benefits which address those deficiencies.

Table 1: Reservoir B Replacement

| Current Deficiencies | Project Benefits |
|---|---|
| System wide contamination issues may occur with a | Remedied with two (2) 2.5 MG Steel Tanks with an |
| breach in the cover: Storm water, debris and | aluminum roof and site security measures. Total |
| detritus collect on reservoir cover | storage 5.0 MG. |
| Cover and liner once brittle are difficult to inspect | |
| and repair | |
| Reservoir does not include a separate inlet, outlet, | Project includes these regulatory criteria |
| and drain lines | 3000 |
| Must be able to be isolated from distribution | |
| system | |
| Site security may allow trespassing that leads to | Improved site security and impenetrable tank |
| cover damage | materials will minimize potential for contamination |
| Usable storage capacity is limited by WTP hydraulic | Reservoir B will no longer feed WTP pumps with |
| elevations | the installation of the ZAPS and ZATM |
| Fire Flow capacity does provide sufficient | Increases the total usable system capacity by 3 MG |
| firefighting flows for urban-interface firefighting | 32 27 37 37 |
| operations per Title 22 regulations, however it was | |
| not sufficient during the Camp Fire. | |
| Reservoir B cannot be to be taken out of service in | Two tanks provide redundancy when working on |
| the summer for maintenance and only in the winter | one of the tanks. Also provides for storage |
| by using the Treatment Water Storage Tank at the | adjustments if water quality becomes a concern. |
| WTP. | |

Table 2: Zone A Pump Station (ZAPS)

| Current Deficiencies | Project Benefits |
|---|---|
| WTP hydraulics reduce the usable storage volume | WTP pumps will be supplied by ZAPS and not |
| of Reservoir B by 1 MG. 2 MG storage is available. | Reservoir B, remedying hydraulic issue at the WTP |
| | ZAPS elevation is less than PS #2, which decreases |
| | energy needed to pump to Zone A. Calculations to |
| | compare energy savings will be needed if SRF will |
| | consider principal forgiveness regarding a 20% |
| | reduction relative to the Green Project Reserve |
| | eligibility guidance. |
| PS #2 has no redundancy if it fails to operate | ZAPS will provide an alternate water supply to Zone |
| PS #2 is at least 51 years old, estimated lifespan of | A, and supply to Zones B, C, D, E, F & G in the |
| mechanical equipment is 60 years | winter and partially in the summer. |
| Fire flow is limited in Zone A due to the capacity of | ZAPS provides a higher pumping capacity into Zone |
| PS #2 | A in an emergency. In a major fire both pump |
| | stations can provide more firefighting resiliency. |

July 26, 2018 Page **1** of **2**



Table 3: Zone A Transmission Main (ZATM)

| Current Deficiencies | Project Benefits | | | | | | |
|---|---|--|--|--|--|--|--|
| 42" Transmission Main has no redundancy | ZATM will provide redundancy to 42". | | | | | | |
| 42" Transmission Main location is susceptible to | ZAPS and ZATM can supply the entire distribution | | | | | | |
| wildfires, landslides, and other ecological failures | system if the 42" transmission main is offline | | | | | | |
| 42" Transmission Main is at least 65 years old, | (either due to failure or maintenance). | | | | | | |
| estimated lifespan of mechanical equipment is 60 | Reserves land adjacent to the 42" for its eventual | | | | | | |
| years | replacement. | | | | | | |
| 42" Transmission Main location is difficult to access | New Skyway alignment will provide accessibility for | | | | | | |
| for service, therefore is not an ideal location for | ZATM construction and maintenance, and is | | | | | | |
| another transmission main | relatively protected from ecological disasters | | | | | | |
| The source of the WTP potable water supply is | Connecting the WTP potable water supply to the | | | | | | |
| creating hydraulic deficiencies, and the equipment | ZATM allows for the removal of the aging | | | | | | |
| is an aging liability | hydropneumatic tank | | | | | | |

July 26, 2018 Page **2** of **2**



Memorandum

| DATE: | July 26, 2018 |
|----------|--|
| TO: | Michael Collins, CVRWQCB |
| COPY TO: | Jim Passanisi, Paradise Irrigation District Bill Taylor, Paradise Irrigation District |
| | Betsy Elzufon, LWA |

Steve Maricle

1480 Drew Avenue, Suite 100 Davis, CA 95618 530.753.6400 530.753.7030 fax SteveM@lwa.com

SUBJECT: Paradise Irrigation District Mixing Zone Verification Monitoring Rescheduling

Paradise Irrigation District (the District) discharges supernatant from their backwash waste ponds at the Paradise Irrigation District Water Treatment Plant (Treatment Plant) to the Magalia Reservoir under a permit issued in 2010 (NO. R5-2010-0057, CA0083488). The permit has effluent limits for dichlorobromomethane (DCBM) with which the District was unable to consistently comply. A Time Schedule Order (TSO) is in effect (R5-2010-0058-02) with interim effluent limits and a compliance schedule and a final compliance date of April 2020.

The District evaluated available dilution for the current discharge using the USEPA approved mixing zone model CORMIX. A technical memorandum, *Paradise Irrigation District Mixing Zone and Dilution Credit Evaluation*, describing the results of this evaluation was submitted to the Regional Board on March 29, 2018 and reviewed in a meeting with Regional Board staff on April 26, 2018. Regional Board staff requested that the results of the modeling be verified by monitoring within reservoir.

The District submitted a Method of Compliance Workplan (Workplan) on June 1, 2018 to comply with the requirements in the TSO. Included in the workplan was a milestone to complete the monitoring needed to verify the model with a completion date of July 31, 2018. However, as described below, current temperatures in the reservoir will make it difficult to locate the plume and conduct the model verification.

RESCHEDULING OF VERIFICATION MONITORING

The District prepared a workplan to conduct a monitoring event within the Magalia Reservoir to verify the results of the mixing zone model. The work plan involves using the differences in temperature and conductivity between the reservoir and the effluent to determine the location of the

Paradise Irrigation District

Paradise Irrigation District Mixing Zone Verification Monitoring Rescheduling

effluent plume. Multiple samples of aluminum and DCBM would then be collected along the plume and compared to model predictions. The monitoring strategy also stipulates that sampling must be rescheduled if the temperature of the reservoir is greater than the effluent by 5 degrees Celsius. In this scenario, the effluent would quickly sink to the bottom of the reservoir, which would inhibit the ability to collect samples along the plume.

The District had originally planned to conduct the verification monitoring on July 25th, but temperature readings that were obtained the week prior, showed that the reservoir was about 10 degrees Celsius warmer than the effluent. A temperature difference this great will likely make locating the plume too difficult and because of this, the District is requesting a rescheduling of the study completion date of July 31, 2018.

SCHEDULE FOR COMPLETION OF VERIFICATION MONITORING

Beginning in August, the District will take monthly temperature measurements of the effluent and the reservoir. The verification monitoring event would be scheduled, once the temperature difference falls to within an acceptable range of 5 degrees Celsius or less. To account for the possibility of warm temperatures continuing for the next couple of months, the District is requesting that the completion date be changed to December 31, 2018.

Paradise Irrigation District page 2



Memorandum

DATE: July 25, 2018

TO: Michael Collins, CVRWQCB

COPY TO: Jim Passanisi, Paradise Irrigation
District

Davis, CA 95618

530.753.6400 office

530.753.7030 fax

Betsye@lwa.com

SUBJECT: Paradise Irrigation District Water Treatment Plant – Low Level

Dichlorobromomethane Monitoring Results

Paradise Irrigation District (the District) discharges supernatant from their backwash waste ponds at the Paradise Irrigation District Water Treatment Plant (Treatment Plant) to the Magalia Reservoir under a permit issued in 2010 (NO. R5-2010-0057, CA0083488). The permit has effluent limits for dichlorobromomethane (DCBM) with which the District was unable to consistently comply. A Time Schedule Order (TSO) is in effect (R5-2010-0058-02) with interim effluent limits and a compliance schedule and a final compliance date of April 2020.

The District evaluated available dilution for the current discharge using the USEPA approved mixing zone model CORMIX. A technical memorandum, *Paradise Irrigation District Mixing Zone and Dilution Credit Evaluation*, describing the results of this evaluation was submitted to the Regional Board on March 29, 2018 and reviewed in a meeting with Regional Board staff on April 26, 2018.

This evaluation concluded that dilution was available in the reservoir for DCBM based on an assumption that DCBM was not present in the receiving water at concentrations greater than 0.06 $\mu g/L$. However, DCBM has previously been analyzed in receiving water using an analytical method with a minimum detection limit (MDL) of 0.5 $\mu g/L$. To validate the assumption that assimilative capacity is available in the reservoir for DCBM, the District began collecting samples at the proposed upstream receiving water location and analyzing for DCBM using a EPA Method 624 (low level) with a MDL of 0.05 $\mu g/L$.

A Method of Compliance Workplan was submitted on June 1, 2018 that included milestone to conduct this monitoring and complete the evaluation by July 31, 2018. This memorandum provides the results of this monitoring effort.

Table 1 presents the results of monitoring conducted at the upstream receiving water site (i.e., just below the inflow from Fir Haven Creek) for the period of April 10-May 29, 2018. Samples were analyzed using EPA Method 624 (low level) with a Method Detection Limit (MDL) of $0.05~\mu g/L$. The analysis was conducted by Caltest Analytical Laboratory. Lab reports are provided in **Attachment A**.

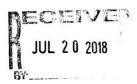
Table 1. DCBM Concentrations in Magalia Reservoir

| Date | DCBM | Units |
|---------|---------------|-------|
| | Concentration | |
| 4/10/18 | <0.05 | μg/L |
| 4/16/18 | <0.05 | μg/L |
| 4/23/18 | <0.05 | μg/L |
| 4/30/18 | <0.05 | μg/L |
| 5/7/18 | <0.05 | μg/L |
| 5/21/18 | <0.05 | μg/L |
| 5/29/18 | <0.05 | μg/L |

As shown in Table 1, in the 7 samples collected, DCBM was not detected above the MDL of $0.05~\mu g/L$. This result is consistent with the assumption made in the Dilution Study and

MENT OF PARKS AND RECREATION Lisa Mangat, Director

Division of Boating and Waterways One Capitol Mall, Suite 500 Sacramento, California 95814



Mr. Kevin Phillips Interim District Manager Paradise Irrigation District 6332 Clark Road Paradise, CA 95969 JUL 17 2018

Paradise Lake North Boat Launching Facility, Grant Agreement No. C4123010 (1083)

Dear Mr. Phillips:

The Department of Parks and Recreation, Division of Boating and Waterways (DBW) has received the District's official notice of intent and resolution to terminate the above listed grant agreement for the proposed improvements to the north boat launching facility at Paradise Lake. As explained in the notification, accepting the grant funding is not in the District's best interest at this time and justifies the District's decision to request termination of the grant agreement. The District's notification also states that the District has not incurred any eligible costs and therefore will not request any reimbursement.

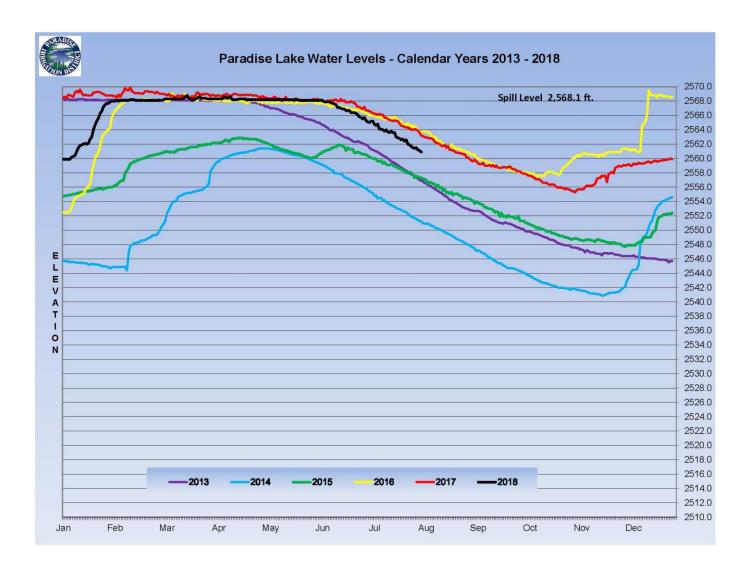
DBW records indicate no funds have been issued from this grant. This satisfies the condition identified in Article 21 A for termination. Therefore, DBW accepts and agrees with District's request to terminate Grant Agreement C4123010. If the District wishes to submit a new application for this or a new project altogether, our website at www.dbw.ca.gov has helpful information to assist in that development. The deadline for new applications is February 1, 2019.

The Division of Boating and Waterways appreciates your investment in improving California's boating access. If you have any questions, please contact Cynthia Clauser of my staff at 916-327-1809 or by email at Cynthia.Clauser@parks.ca.gov.

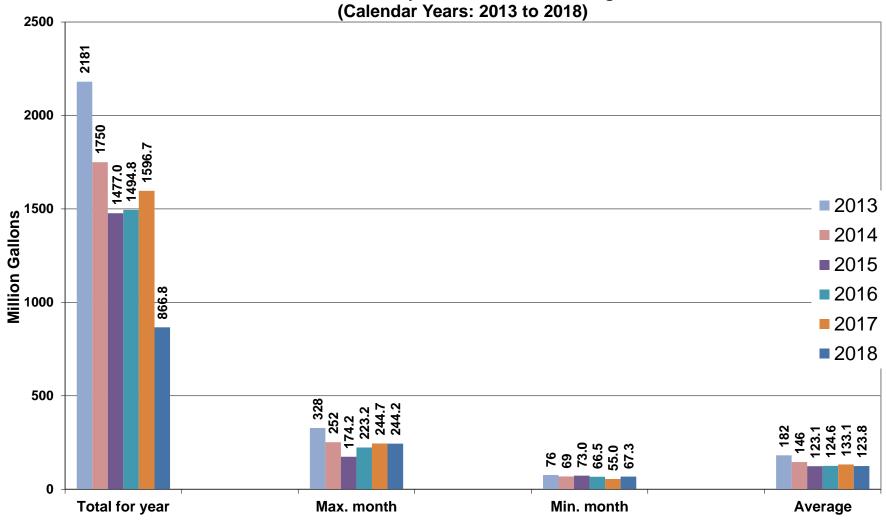
Sincerely

Keren Dill, Chief

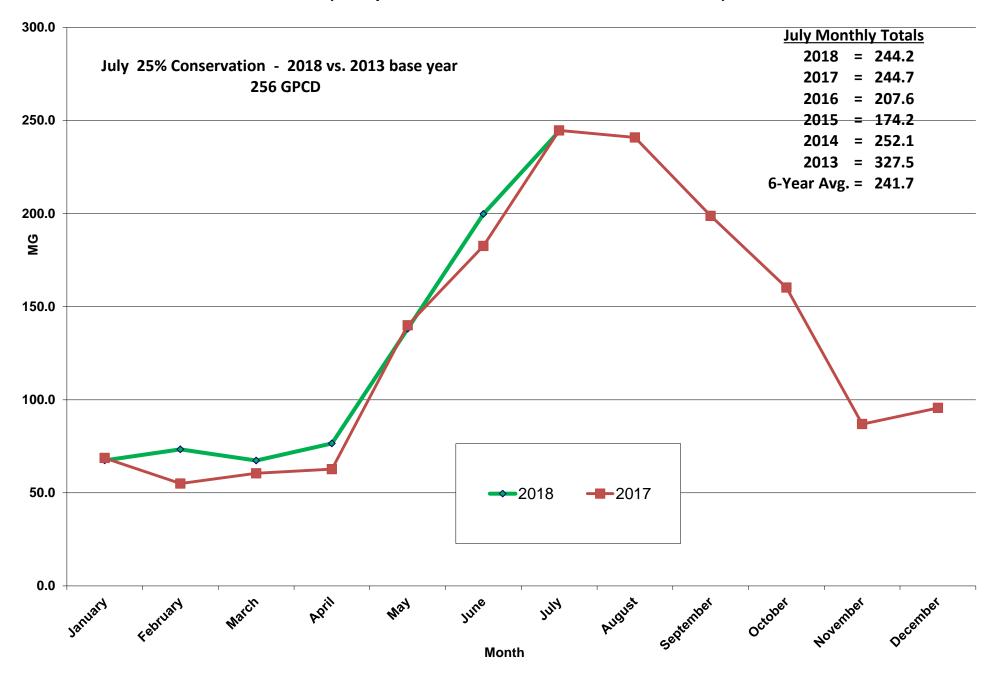
Boating Facilities Development and Financing Unit



Water Treatment Plant Annual Production Comparisons Total; Monthly Max. & Min, and Average (Calendar Years: 2013 to 2018)



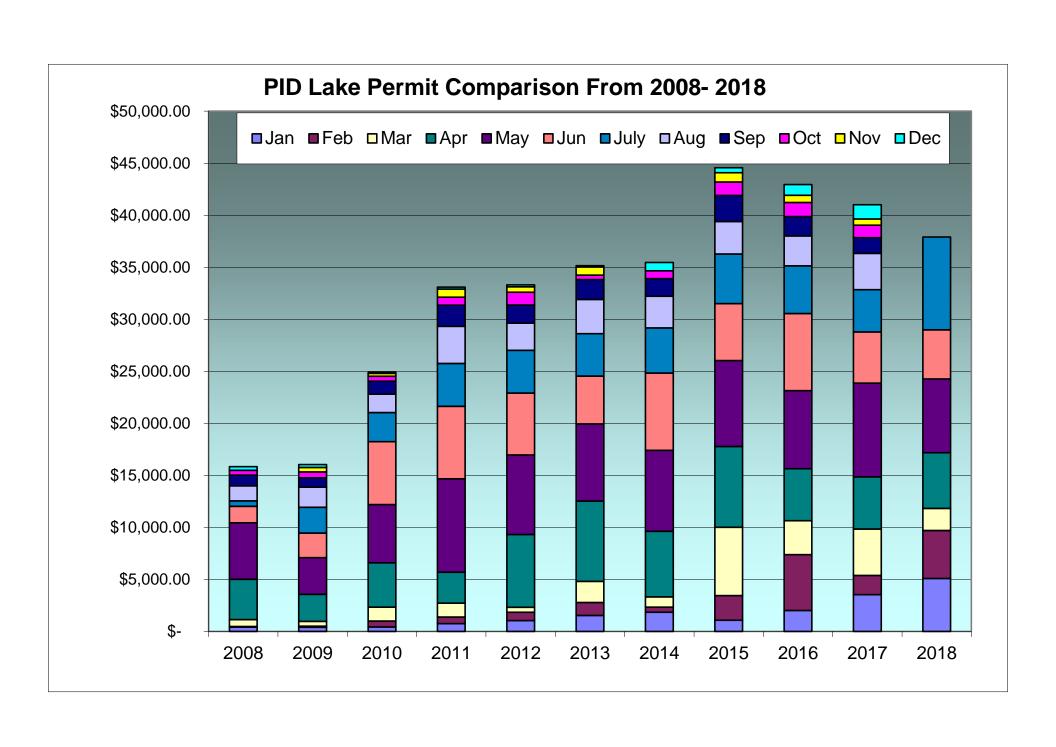
Monthly Treatment Plant Production (Million Gallons - MG) (Comparison of Calendar Years 2018 to 2017)



Water Treatment Plant Annual Production Figures and 5 Year Averages (2013 - 2018) (Million Gallons)

Note: 2013 is the conservation comparison/base year Years

| | | | | Year | S | | | | | | | | | | 6-Year Average |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|-------|----------------|
| _ | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2013-2018 |
| January | 113.2 | 113.7 | 130.8 | 116.1 | 105 | 91.4 | 91.6 | 105.2 | 82.5 | 111.2 | 82.3 | 71.1 | 68.7 | 67.4 | 80.5 |
| February | 101 | 104.7 | 106.9 | 112.3 | 88.4 | 79.2 | 85.2 | 85.3 | 76.1 | 68.8 | 73.0 | 66.5 | 55.0 | 73.4 | 68.8 |
| March | 129.3 | 110.7 | 150.2 | 147 | 108.9 | 100.2 | 84.6 | 79.3 | 101.6 | 85.8 | 98.7 | 67.1 | 60.5 | 67.3 | 80.2 |
| April | 132 | 112.5 | 172 | 205.9 | 170.5 | 96.9 | 99.8 | 94.2 | 145.1 | 107.7 | 106.7 | 84.5 | 62.7 | 76.5 | 97.2 |
| May | 181.5 | 243.9 | 259.3 | 275 | 221 | 140.8 | 146 | 214.7 | 241.6 | 175.6 | 136.5 | 119.6 | 140.0 | 138.2 | 158.6 |
| June | 250.7 | 328.5 | 336.4 | 321.6 | 256.7 | 239.7 | 183.3 | 262.7 | 276.2 | 230.3 | 148.1 | 169.7 | 182.6 | 199.8 | 201.1 |
| July | 393.2 | 428.9 | 384.6 | 360.5 | 350.6 | 344.4 | 283.3 | 325.5 | 327.5 | 252.1 | 174.2 | 207.6 | 244.7 | 244.2 | 241.7 |
| August | 412.3 | 391.5 | 379.6 | 363.8 | 338.6 | 332.4 | 307.6 | 331.2 | 309.9 | 220.7 | 171.8 | 223.2 | 240.9 | | |
| September | 312.1 | 338.4 | 295.3 | 317.5 | 281.4 | 271.3 | 280.3 | 283.7 | 230.1 | 196.3 | 157.9 | 191.0 | 198.8 | | |
| October | 234.9 | 253.2 | 156.9 | 218.1 | 178.1 | 185.1 | 152.2 | 198.7 | 170.7 | 137.3 | 138.3 | 115.2 | 160.3 | | |
| November | 117.8 | 128.7 | 142 | 124.7 | 114.2 | 95.8 | 107.3 | 91.7 | 117.4 | 85.4 | 95.6 | 90.6 | 86.9 | | |
| December | 114.3 | 112.9 | 115.5 | 120.7 | 101.7 | 105.3 | 105.1 | 81.2 | 102.3 | 78.5 | 93.9 | 88.7 | 95.6 | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | 5.V. A |
| | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 5 Year Avg. |
| Total for year | 2492 | 2668 | 2630 | 2683 | 2315 | 2083 | 1926 | 2153 | 2181 | 1750 | 1477.0 | 1494.8 | 1596.7 | 866.8 | 928.1 |
| | | | | | | | | | | | | | | | |
| Max. month | 412 | 429 | 385 | 364 | 351 | 344 | 308 | 331 | 328 | 252 | 174.2 | 223.2 | 244.7 | 244.2 | 241.7 |
| | | | | | | | | | | | | | | | |
| Min. month | 101 | 105 | 107 | 112 | 88 | 79 | 85 | 79 | 76 | 69 | 73.0 | 66.5 | 55.0 | 67.3 | 68.8 |
| | | | | | | | | | | | | | | | |
| Average | 208 | 222 | 219 | 224 | 193 | 174 | 161 | 179 | 182 | 146 | 123.1 | 124.6 | 133.1 | 123.8 | 132.6 |



Paradise Irrigation District

Lake Permit Sales January -December 2018

| | | | Recre | ation | | | Boating | | | | | | | - Total | |
|-----------|-----|-----|----------|-------|------|----------|---------|------|-----------|-----|-------|----------|----|-----------|--|
| | Д | nnu | al | | Dail | У | S | easo | on | | Daily | | | IOLAI | |
| January | 62 | \$ | 935.00 | 269 | \$ | 808.30 | 71 | \$ | 2,840.00 | 50 | \$ | 500.00 | \$ | 5,083.30 | |
| February | 69 | \$ | 1,035.00 | 206 | \$ | 619.00 | 65 | \$ | 2,580.00 | 38 | \$ | 380.00 | \$ | 4,614.00 | |
| March | 22 | \$ | 335.00 | 198 | \$ | 594.16 | 26 | \$ | 1,020.00 | 18 | \$ | 180.00 | \$ | 2,129.16 | |
| April | 54 | \$ | 805.00 | 152 | \$ | 456.00 | 96 | \$ | 3,820.00 | 27 | \$ | 265.01 | \$ | 5,346.01 | |
| May | 36 | \$ | 535.00 | 571 | \$ | 1,712.42 | 106 | \$ | 4,220.00 | 63 | \$ | 625.00 | \$ | 7,092.42 | |
| June | 34 | \$ | 565.00 | 272 | \$ | 815.03 | 64 | \$ | 3,000.00 | 38 | \$ | 345.00 | \$ | 4,725.03 | |
| July | 28 | \$ | 420.00 | 1485 | \$ | 4,453.36 | 69 | \$ | 2,220.00 | 201 | \$ | 1,820.00 | \$ | 8,913.36 | |
| August | 0 | | | 0 | | | 0 | | | 0 | | | \$ | - | |
| September | 0 | | | 0 | | | 0 | | | 0 | | | \$ | - | |
| October | 0 | | | 0 | | | 0 | | | 0 | | | \$ | - | |
| November | 0 | | | 0 | | | 0 | | | 0 | | | \$ | - | |
| December | 0 | | | 0 | | | 0 | | | 0 | | | \$ | - | |
| Totals | 305 | \$ | 4,630.00 | 3,154 | \$ | 9,458.27 | 495 | \$ | 19,700.00 | 434 | \$ | 4,115.01 | \$ | 37,903.28 | |

ENGINEERING REPORT

July 2018

Activities This Month

This month engineering staff submitted the independently validated 2017 Water Loss Audit to the state Division of Water Resources. Staff distributed a Request for Proposals for engineering analysis of the Magalia Dam outlet pipe anchors.

Engineering staff initiated work with the District's consultant on design of the Almond Street water main replacement. Staff also began development of a static pressure map of the District.

Engineering staff continued working on issues related to water rights measurement and reporting. Staff also continued work on the Reservoir B expansion project, and on the NPDES permit renewal and water recycling project.

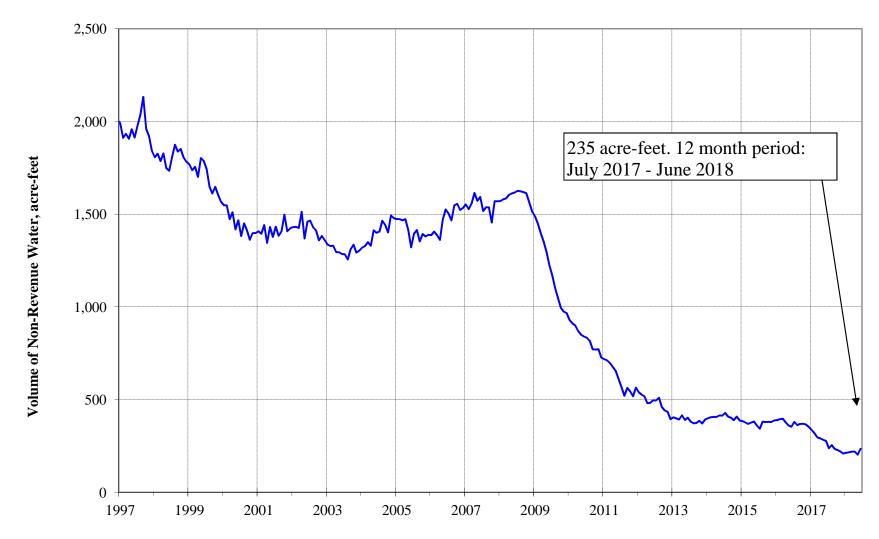
Staff continued to work on easement issues near Skyway at the "junction box". Staff also continued work on annexations to the District.

Engineering staff participated in a FEMA table top exercise for a hypothetical dam failure with other District staff. Staff continued work on cross-connection control and metering issues as they apply to the Del Oro Water Company interties.

Summary of Development Review and Other Activities

| Water Service Requirements Review Requests | 3 |
|---|----|
| New/revised projects reviewed in Project Evaluation Committee (TOP) | 1 |
| Review and direction of miscellaneous ongoing projects | 4 |
| Meter Sizing Audits (total to date) | 64 |
| Meter Size Reductions (total to date) | 40 |

Non-Revenue Water Production Minus Metered Sales 12 Month Cumulative Time Intervals



12 Month Time Period Ending Date

Information Technology Report

PID Website

Top 10 Pages – July 1 through July 31, 2018

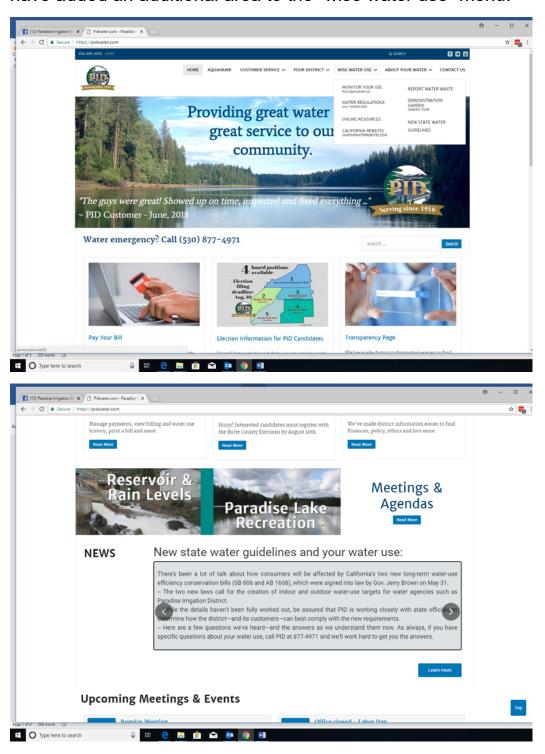
| P | age ? | Pageviews ? |
|-----|-------------|--|
| | | 4,334 % of Total: 100.00% (4,334) |
| 1. | / | 1,885 (43.49%) |
| 2. | /pay 🚇 | 464 (10.71%) |
| 3. | /careers @ | 265 (6.11%) |
| 4. | /contact @ | 144 (3.32%) |
| 5. | /board @ | 98 (2.26%) |
| 6. | /levels @ | 85 (1.96%) |
| 7. | /apply @ | 72 (1.66%) |
| 8. | /meetings @ | 58 (1.34%) |
| 9. | /rates @ | 58 (1.34%) |
| 10. | /open @ | 51 (1.18%) |

Policy Updates

Staff is working on revising the records retention policy to reflect the current regulations and best practices for our industry. Once finalized, we will create the plan to implement any changes in procedures. After completion, I will resume work on updating the IT security policy.

State water regulations

Information about state water use guidelines is featured in the August WaterTalk newsletter, on the PID front page news section, and after a board suggesting I have added an additional area to the "wise water use" menu.



July Regular Meeting on Facebook Live - Post Performance



July software subscriptions

1 - Adobe Standard DC @ \$12.99 = \$12.99

1 - Adobe Pro DC @ \$14.99 = \$14.99

1 - Creative Cloud Photo Plan @ \$19.99 = \$19.99

13 – Office 365 ProPlus @ \$9.00 = \$117.00

Total July: =\$164.97

Public Information Requests Posted on Website

When staff receives a public information request (PIR), the information provided to the requestor is also posted online for interested members of the public. We began the practice of displaying the PIRs online to highlight the District's commitment to transparency. There are some instances when staff does not publish the PIR online, such as requests made regarding a legal matter (i.e., subpoenas), information that we cannot easily convert into online viewing formats, and information that result in large file sizes.



https://pidwater.com/pir

Mickey Rich Information Systems Manager August 2018